



## Section L

# Energy and Utilities

*Information on energy production and utilization in New York State — including electricity generation; energy usage and demand; oil and gas consumption; and nuclear power generation.*

### Highlights

- 526 trillion Btu's of energy were produced in New York in 2006.
- 4,000 trillion Btu's of energy were consumed in 2006, almost eight times more than New York produced.
- New Yorkers paid over \$59 billion for all types of energy in 2006, 3.1 percent more than in 2005.
- Petroleum products provided 39 percent of the energy consumed in New York State in 2006, followed by natural gas at 27 percent.
- New York has six of the nation's 104 nuclear power plants and they supplied 11 percent of the State's energy consumption in 2005.

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**Glossary**

**TABLE L-1**  
**Electric Power Industry — Selected Years 2000-05**  
**Net Summer Capacity — 2000 and 2005(a)**  
**United States by State**

| State                | Net Generation<br>(billion kWh) |         |         |         | Net Summer<br>Capacity<br>(million kWh) |       |
|----------------------|---------------------------------|---------|---------|---------|---|-------|
|                      | 2000(r)                         | 2003    | 2004    | 2005    | 2000(r)                                 | 2005  |
| United States        | 3,802.1                         | 3,883.2 | 3,970.6 | 4,054.7 | 811.7                                   | 978.0 |
| Alabama              | 124.4                           | 137.5   | 137.4   | 137.9   | 23.5                                    | 30.7  |
| Alaska               | 6.2                             | 6.3     | 6.5     | 6.6     | 2.1                                     | 1.9   |
| Arizona              | 88.9                            | 94.4    | 104.6   | 101.5   | 15.3                                    | 24.9  |
| Arkansas             | 43.9                            | 50.4    | 51.9    | 47.8    | 9.7                                     | 14.1  |
| California           | 208.1                           | 192.8   | 194.8   | 200.3   | 51.9                                    | 61.7  |
| Colorado             | 44.2                            | 46.6    | 47.9    | 49.6    | 8.4                                     | 11.1  |
| Connecticut          | 33.0                            | 29.5    | 32.6    | 33.5    | 6.4                                     | 8.0   |
| Delaware             | 6.0                             | 7.4     | 7.9     | 8.1     | 2.1                                     | 3.4   |
| District of Columbia | 0.1                             | 0.1     | b       | 0.2     | 0.8                                     | 0.8   |
| Florida              | 191.8                           | 212.6   | 218.1   | 220.3   | 41.5                                    | 53.2  |
| Georgia              | 123.9                           | 124.1   | 126.8   | 136.7   | 27.8                                    | 36.5  |
| Hawaii               | 10.6                            | 11.0    | 11.4    | 11.5    | 2.4                                     | 2.4   |
| Idaho                | 11.9                            | 10.4    | 10.9    | 10.8    | 3.0                                     | 3.2   |
| Illinois             | 178.5                           | 189.1   | 192.0   | 194.1   | 36.3                                    | 42.5  |
| Indiana              | 127.8                           | 124.9   | 127.8   | 130.4   | 23.3                                    | 27.0  |
| Iowa                 | 41.5                            | 42.1    | 43.2    | 44.2    | 9.1                                     | 11.1  |
| Kansas               | 44.8                            | 46.6    | 46.8    | 45.9    | 10.1                                    | 11.0  |
| Kentucky             | 93.0                            | 91.7    | 94.5    | 97.8    | 16.8                                    | 20.0  |
| Louisiana            | 92.9                            | 94.9    | 98.2    | 92.6    | 21.0                                    | 26.8  |
| Maine                | 14.0                            | 19.0    | 19.1    | 18.8    | 4.2                                     | 4.2   |
| Maryland             | 51.1                            | 52.2    | 52.1    | 52.7    | 10.4                                    | 12.5  |
| Massachusetts        | 38.7                            | 48.4    | 47.5    | 47.5    | 12.4                                    | 14.0  |
| Michigan             | 104.2                           | 111.3   | 118.5   | 121.6   | 25.8                                    | 30.4  |
| Minnesota            | 51.4                            | 55.1    | 52.4    | 53.0    | 10.3                                    | 12.1  |
| Mississippi          | 37.6                            | 40.1    | 43.7    | 45.1    | 9.0                                     | 16.9  |
| Missouri             | 76.6                            | 87.2    | 87.6    | 90.8    | 17.3                                    | 20.5  |
| Montana              | 26.5                            | 26.3    | 26.8    | 27.9    | 5.2                                     | 5.3   |
| Nebraska             | 29.1                            | 30.5    | 32.0    | 31.5    | 6.0                                     | 7.0   |
| Nevada               | 35.5                            | 33.2    | 37.7    | 40.2    | 6.7                                     | 8.7   |
| New Hampshire        | 15.0                            | 21.6    | 23.9    | 23.7    | 2.9                                     | 4.3   |
| New Jersey           | 58.1                            | 57.4    | 55.9    | 60.5    | 16.5                                    | 17.5  |
| New Mexico           | 34.0                            | 32.7    | 32.9    | 35.1    | 5.6                                     | 6.5   |
| New York             | 138.1                           | 137.6   | 138.0   | 146.9   | 35.6                                    | 39.1  |
| North Carolina       | 122.3                           | 127.6   | 126.3   | 129.7   | 24.5                                    | 27.1  |
| North Dakota         | 31.3                            | 31.3    | 29.9    | 31.9    | 4.7                                     | 4.8   |
| Ohio                 | 149.1                           | 146.6   | 148.3   | 157.0   | 28.4                                    | 33.9  |
| Oklahoma             | 55.6                            | 60.6    | 60.7    | 68.6    | 14.1                                    | 19.8  |
| Oregon               | 51.8                            | 49.0    | 51.4    | 49.3    | 11.3                                    | 12.2  |
| Pennsylvania         | 201.7                           | 206.3   | 214.7   | 218.1   | 36.7                                    | 44.9  |
| Rhode Island         | 6.0                             | 5.6     | 4.9     | 6.1     | 1.2                                     | 1.7   |
| South Carolina       | 93.3                            | 93.8    | 97.9    | 102.5   | 18.7                                    | 22.6  |
| South Dakota         | 9.7                             | 7.9     | 7.5     | 6.5     | 2.8                                     | 2.8   |
| Tennessee            | 95.8                            | 92.2    | 97.6    | 97.1    | 19.5                                    | 20.7  |
| Texas                | 377.7                           | 379.2   | 390.3   | 396.7   | 81.7                                    | 101.0 |
| Utah                 | 36.6                            | 38.0    | 38.2    | 38.2    | 5.2                                     | 6.5   |
| Vermont              | 6.3                             | 6.0     | 5.5     | 5.7     | 1.0                                     | 1.0   |
| Virginia             | 77.2                            | 75.3    | 78.9    | 78.9    | 19.4                                    | 22.6  |
| Washington           | 108.2                           | 100.1   | 102.2   | 102.0   | 26.1                                    | 27.8  |
| West Virginia        | 92.9                            | 94.7    | 89.7    | 93.6    | 15.0                                    | 16.5  |
| Wisconsin            | 59.6                            | 60.1    | 60.4    | 61.8    | 13.6                                    | 16.2  |
| Wyoming              | 45.5                            | 43.6    | 44.8    | 45.6    | 6.2                                     | 6.7   |

NOTE: Detail may not add to totals due to rounding.

See Glossary on page 524 for explanation of abbreviations.

r Revised.

a As of December 31 of each year. Covers utilities for public use.

b Represents less than 50 million kWh or 50,000 kW.

SOURCE: *Statistical Abstract of the United States, 2008*, www.census.gov/prod/2007pubs/08statab/energy.pdf (last viewed July 22, 2008); U.S. Energy Information Administration, *Electric Power Annual 2005*.

**TABLE L-2**  
**Production of Primary Energy Resources**  
**New York State — 1992-2006**

| Year  | Hydro Electricity |        | Natural Gas |      | Crude Oil |      | Biofuel <sup>1</sup> | Wind | Total Energy Production |
|-------|-------------------|--------|-------------|------|-----------|------|----------------------|------|-------------------------|
|       | TBtu              | GWh    | TBtu        | Bcf  | TBtu      | Mbbl |                      |      |                         |
| 1992r | 288.7             | 27,920 | 24.3        | 23.6 | 2.4       | 406  | 104.5                | —    | 419.9                   |
| 1993r | 302.1             | 29,304 | 22.5        | 21.9 | 2.0       | 341  | 117.6                | —    | 444.2                   |
| 1994r | 285.3             | 27,656 | 22.2        | 21.6 | 1.7       | 299  | 122.7                | —    | 431.9                   |
| 1995r | 267.0             | 25,895 | 19.8        | 19.3 | 1.8       | 304  | 124.9                | —    | 413.5                   |
| 1996r | 298.1             | 28,830 | 18.7        | 18.2 | 1.8       | 309  | 141.2                | —    | 459.8                   |
| 1997r | 311.5             | 30,498 | 16.6        | 16.2 | 1.6       | 276  | 179.5                | —    | 509.2                   |
| 1998r | 297.8             | 29,203 | 17.1        | 16.6 | 1.3       | 217  | 160.5                | —    | 476.7                   |
| 1999r | 252.0             | 24,648 | 17.3        | 16.8 | 1.1       | 193  | 168.4                | —    | 438.8                   |
| 2000r | 253.2             | 24,819 | 18.3        | 17.8 | 1.0       | 181  | 177.4                | 0.1  | 450.0                   |
| 2001r | 236.2             | 23,152 | 28.7        | 28.0 | 1.1       | 183  | 127.5                | 0.2  | 393.7                   |
| 2002r | 267.4             | 26,213 | 38.1        | 37.1 | 1.0       | 179  | 123.9                | 0.8  | 431.2                   |
| 2003r | 263.2             | 25,798 | 36.9        | 36.0 | 0.9       | 157  | 128.9                | 0.4  | 430.3                   |
| 2004r | 287.2             | 28,153 | 48.1        | 46.9 | 1.1       | 184  | 158.7                | 1.2  | 496.3                   |
| 2005r | 281.4             | 27,583 | 56.5        | 55.2 | 1.2       | 211  | 163.4                | 1.0  | 503.6                   |
| 2006p | 290.0             | 28,422 | 56.5        | 55.2 | 1.9       | 319  | 172.4                | 5.4  | 526.1                   |

NOTE: See Glossary on page 524 for explanation of abbreviations.

— Represents zero.

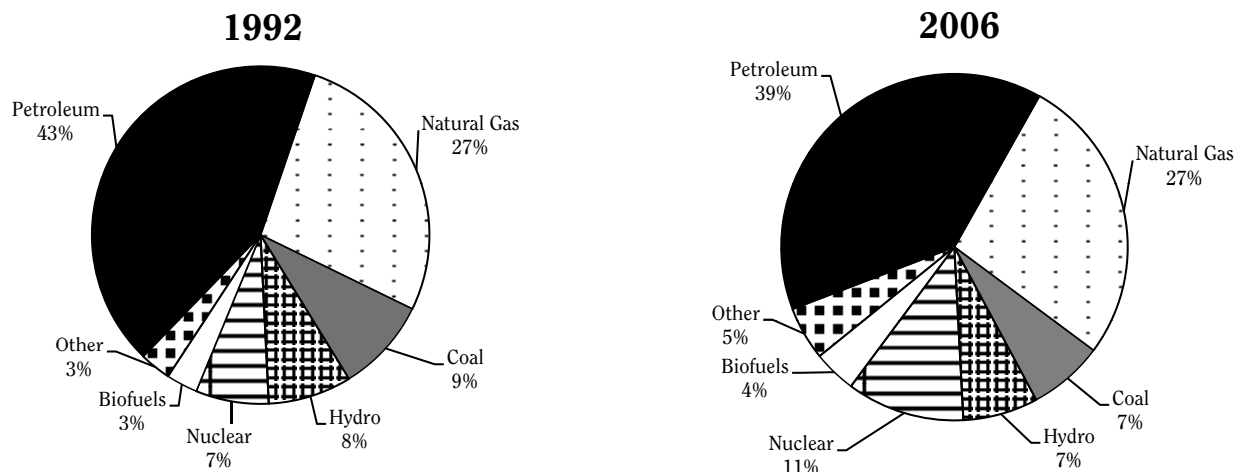
p Preliminary.

r Revised.

<sup>1</sup> Includes primarily wood, wastes, and ethanol.

SOURCE: New York State Department of Environmental Conservation; material compiled by New York State Energy Research and Development Authority.

**FIGURE L-1**  
**Primary Consumption of Energy by Type of Fuel**  
**New York State — 1992 and 2006**



SOURCE: New York State Department of Environmental Conservation; material compiled by New York State Energy Research and Development Authority.

**TABLE L-3**  
**Oil and Gas Production**  
**New York State — 1966-2006**

| Year  | Production     |               | Number of Wells |        |             |      |         |                    |                    |
|-------|----------------|---------------|-----------------|--------|-------------|------|---------|--------------------|--------------------|
|       | Oil<br>(Mbbls) | Gas<br>(MMcf) | Oil             | Gas    | Shut-In     |      | Storage | P & A <sup>1</sup> | Water<br>Injection |
|       |                |               |                 |        | Oil and Gas |      |         |                    |                    |
| 1966  | 1,728          | 2,699         | 7,300           | 1,164  | 4,500       |      | 450     | NA                 |                    |
| 1967  | 1,972          | 2,230         | 7,000           | 1,159  | 4,600       |      | 500     | NA                 |                    |
| 1968  | 1,532          | 2,969         | 6,400           | 1,111  | 4,450       |      | 650     | NA                 |                    |
| 1969  | 1,256          | 4,278         | 5,800           | 820    | 1,009       |      | 721     | NA                 |                    |
| 1970  | 1,193          | 3,093         | 5,600           | 600    | 1,350       |      | 732     | NA                 |                    |
| 1971  | 1,097          | 2,202         | 5,552           | 628    | 1,567       |      | 729     | 418                |                    |
| 1972  | 1,018          | 3,362         | 5,528           | 750    | 1,619       |      | 734     | 573                |                    |
| 1973  | 969            | 4,588         | 5,288           | 789    | 1,484       |      | 736     | 544                |                    |
| 1974  | 896            | 4,918         | 5,513           | 1,061  | 1,862       |      | 735     | 622                |                    |
| 1975  | 875            | 7,483         | 5,231           | 1,111  | 1,883       |      | 765     | 553                |                    |
| 1976  | 857            | 9,200         | 5,016           | 1,195  | 1,393       | 432  | 764     | 442                |                    |
| 1977  | 824            | 10,700        | 4,913           | 1,467  | 1,528       | 292  | 764     | 455                |                    |
| 1978  | 852            | 13,900        | 5,039           | 1,452e | 1,512e      | 352e | 763     | 352                |                    |
| 1979  | 855            | 15,500        | 5,100           | 1,620e | 1,500e      | 520e | 763     | 117                | 2,500e             |
| 1980  | 824            | 15,650        | 5,220           | 2,076  | 1,400e      | 500e | 765     | 119                | 3,500e             |
| 1981r | 869            | 19,000        | 5,176           | 2,636  | 1,402       | 726  | 822     | 184                | 3,038a             |
| 1982r | 831            | 18,760        | 5,272           | 2,969  | 1,308       | 996  | 831     | 262                | 2,924e             |
| 1983r | 902            | 20,380        | 4,705           | 3,489  | 1,436       | 995  | 839     | 90                 | 2,093              |
| 1984r | 952            | 27,000        | 4,584           | 4,279  | 1,475       | 821  | 839     | 182                | 1,811              |
| 1985r | 1,071          | 33,061        | 4,814           | 4,794  | 1,614       | 891  | 841     | 269                | 2,037              |
| 1986r | 853            | 34,796        | 4,448           | 5,088  | 1,677       | 791  | 836     | 471                | 1,658              |
| 1987r | 710            | 29,549        | 4,228           | 5,351  | 1,582       | 961  | 845     | 417                | 1,376              |
| 1988r | 567            | 28,125        | 4,368           | 5,328  | 1,478       | 870  | 854     | 322                | 1,382              |
| 1989r | 496            | 25,673        | 4,043           | 5,411  | 1,775       | 845  | 845     | 260                | 1,196              |
| 1990r | 417            | 25,112        | 3,906           | 5,536  | 1,752       | 955  | 854     | 961                | 1,274              |
| 1991r | 426            | 23,438        | 3,619           | 5,757  | 1,362       | 707  | 869     | 376                | 875                |
| 1992r | 406            | 23,586        | 3,761           | 5,866  | 939         | 563  | 865     | 244                | 835                |
| 1993r | 341            | 22,145        | 3,783           | 5,986  | 1,137       | 505  | 865     | 263                | 859                |
| 1994r | 299            | 21,537        | 3,670           | 6,017  | 1,326       | 561  | 876     | 234                | 923                |
| 1995r | 304            | 18,799        | 3,208           | 6,216  | 1,108       | 665  | 866     | 191                | 783                |
| 1996r | 309            | 18,238        | 3,438           | 5,894  | 1,648       | 564  | 868     | 184                | 668                |
| 1997r | 276            | 16,194        | 3,446           | 5,739  | 1,265       | 709  | 867     | 141                | 554                |
| 1998r | 217            | 16,607        | 3,739           | 5,903  | 1,590       | 579  | 885b    | 169                | 471                |
| 1999r | 193            | 16,836        | 3,463           | 5,756  | 1,165       | 583  | 885b    | 138                | 223                |
| 2000r | 181            | 17,752        | 2,802           | 5,747  | 1,314       | 843  | 870b    | 131                | 627                |
| 2001r | 183            | 27,947        | 3,072           | 5,916  | 1,223       | 835  | 892b    | 131                | 553                |
| 2002  | 179            | 36,814        | 3,096           | 5,752  | 1,341       | 925  | 920b    | 125                | 434                |
| 2003  | 164            | 36,017        | 2,978           | 5,827  | 1,653       | 905  | 922b    | 141                | 238                |
| 2004  | 184            | 46,948        | 3,153           | 6,076  | 1,640       | 886  | 908b    | 142                | 656                |
| 2005  | 211            | 55,176        | 2,767           | 5,957  | 1,404       | 781  | 932     | 150                | 460                |
| 2006  | 319            | 55,342        | 3,190           | 6,213  | 1,373       | 839  | 936     | 63                 | 517                |

NOTE: See Glossary on page 524 for explanation of abbreviations.

r Revised.

e Estimated.

NA Not available.

a Active injection wells.

b Includes LPG storage wells.

1 Plugged and abandoned during the year.

SOURCE: New York State Department of Environmental Conservation,  
Division of Mineral Resources.

**TABLE L-4**  
**Primary Consumption of Energy by Type of Fuel**  
**New York State — 1992-2006**

| Year  | Coal  |        | Natural Gas |       | Petroleum Products |         | Hydro |        |
|-------|-------|--------|-------------|-------|--------------------|---------|-------|--------|
|       | TBtu  | MTons  | TBtu        | Bcf   | TBtu               | Mbbl    | TBtu  | GWh    |
| 1992r | 356.0 | 13,761 | 1,034.0     | 1,004 | 1,667.8            | 298,633 | 288.7 | 27,920 |
| 1993r | 326.2 | 12,651 | 1,023.1     | 994   | 1,661.0            | 297,647 | 302.1 | 29,304 |
| 1994r | 316.8 | 12,230 | 1,095.6     | 1,065 | 1,595.6            | 287,262 | 285.3 | 27,656 |
| 1995r | 305.3 | 11,785 | 1,295.4     | 1,260 | 1,547.4            | 280,623 | 267.0 | 25,895 |
| 1996r | 311.8 | 12,074 | 1,230.7     | 1,200 | 1,591.4            | 287,810 | 298.1 | 28,830 |
| 1997r | 325.2 | 12,522 | 1,358.0     | 1,325 | 1,548.1            | 280,835 | 311.5 | 30,498 |
| 1998r | 337.4 | 12,953 | 1,267.1     | 1,233 | 1,550.0            | 280,961 | 297.8 | 29,203 |
| 1999r | 318.0 | 12,187 | 1,308.7     | 1,275 | 1,603.8            | 290,502 | 252.0 | 24,648 |
| 2000r | 330.9 | 12,611 | 1,279.6     | 1,244 | 1,697.1            | 306,903 | 253.2 | 24,819 |
| 2001r | 307.0 | 11,784 | 1,204.7     | 1,170 | 1,665.1            | 300,796 | 236.2 | 23,152 |
| 2002r | 280.6 | 10,907 | 1,194.8     | 1,199 | 1,591.2            | 289,027 | 267.4 | 26,213 |
| 2003r | 286.1 | 11,313 | 1,176.4     | 1,132 | 1,773.6            | 319,367 | 263.2 | 25,798 |
| 2004r | 276.5 | 11,335 | 1,120.2     | 1,098 | 1,856.0            | 333,296 | 287.2 | 28,153 |
| 2005r | 260.9 | 10,690 | 1,099.1     | 1,077 | 1,819.1            | 326,781 | 281.4 | 27,583 |
| 2006p | 272.8 | 11,186 | 1,116.2     | 1,093 | 1,584.4            | 288,149 | 290.0 | 28,422 |

| Year  | Nuclear |        | Net Imported Electricity |        | Biofuels <sup>1</sup> | Total <sup>2</sup> |
|-------|---------|--------|--------------------------|--------|-----------------------|--------------------|
|       | TBtu    | GWh    | TBtu                     | GWh    | TBtu                  | TBtu               |
| 1992r | 252.9   | 24,155 | 165.6                    | 16,587 | 104.5                 | 3,869.5            |
| 1993r | 282.4   | 26,889 | 209.8                    | 21,692 | 117.6                 | 3,922.2            |
| 1994r | 305.5   | 29,231 | 202.4                    | 20,737 | 122.7                 | 3,923.9            |
| 1995r | 276.7   | 26,336 | 132.2                    | 13,952 | 124.9                 | 3,948.9            |
| 1996r | 370.0   | 35,226 | 111.3                    | 11,770 | 141.2                 | 4,054.6            |
| 1997r | 310.3   | 29,570 | 68.2                     | 7,091  | 179.5                 | 4,100.8            |
| 1998r | 328.5   | 31,314 | 52.8                     | 5,469  | 160.5                 | 3,994.1            |
| 1999r | 386.8   | 37,019 | 90.3                     | 9,066  | 168.4                 | 4,128.1            |
| 2000r | 328.6   | 31,508 | 175.5                    | 17,657 | 177.5                 | 4,242.3            |
| 2001r | 422.0   | 40,395 | 117.9                    | 11,874 | 127.7                 | 4,080.6            |
| 2002r | 413.6   | 39,617 | 169.7                    | 17,067 | 124.7                 | 4,042.1            |
| 2003r | 423.9   | 40,679 | 179.1                    | 17,930 | 129.3                 | 4,231.6            |
| 2004r | 423.8   | 40,640 | 176.0                    | 17,488 | 159.9                 | 4,299.6            |
| 2005r | 442.6   | 42,443 | 176.7                    | 17,749 | 164.4                 | 4,244.2            |
| 2006p | 440.3   | 42,224 | 189.4                    | 18,750 | 177.7                 | 4,070.9            |

NOTE: TBtu totals may not equal to the sum of components due to rounding.

See Glossary on page 524 for explanation of abbreviations.

p Preliminary.

r Revised.

1 Includes primarily wood, waste, and ethanol.

2 Excludes nonfuel uses and steam.

SOURCE: New York State Energy Research and Development Authority.

TABLE L-5

**Primary Consumption of Refined Petroleum Products by Type of Product  
New York State — 1992-2006**

| Year  | Distillate |        | Residual |        | Kerosene |       |  |  |
|-------|------------|--------|----------|--------|----------|-------|--|--|
|       | TBtu       | Mbbl   | TBtu     | Mbbl   | TBtu     | Mbbl  |  |  |
| 1992r | 423.6      | 72,742 | 322.6    | 51,307 | 10.5     | 1,861 |  |  |
| 1993r | 424.6      | 72,900 | 300.7    | 47,823 | 13.8     | 2,422 |  |  |
| 1994r | 426.6      | 73,218 | 252.3    | 40,125 | 13.0     | 2,289 |  |  |
| 1995r | 409.8      | 70,349 | 189.4    | 30,127 | 13.4     | 2,363 |  |  |
| 1996r | 418.9      | 71,914 | 230.2    | 36,628 | 16.4     | 2,883 |  |  |
| 1997r | 413.7      | 71,033 | 188.6    | 29,992 | 16.4     | 2,906 |  |  |
| 1998r | 375.9      | 64,515 | 224.6    | 35,732 | 19.1     | 3,358 |  |  |
| 1999r | 419.2      | 71,969 | 222.3    | 35,352 | 17.5     | 3,086 |  |  |
| 2000r | 460.3      | 79,038 | 266.3    | 42,349 | 19.6     | 3,443 |  |  |
| 2001r | 482.7      | 82,878 | 233.2    | 37,090 | 19.6     | 3,444 |  |  |
| 2002r | 446.7      | 76,684 | 195.7    | 31,110 | 13.5     | 2,373 |  |  |
| 2003r | 517.9      | 88,919 | 292.9    | 46,578 | 18.1     | 3,195 |  |  |
| 2004r | 555.2      | 95,301 | 323.5    | 51,469 | 18.0     | 3,182 |  |  |
| 2005r | 504.6      | 86,630 | 327.9    | 52,151 | 20.6     | 3,632 |  |  |
| 2006p | 444.1      | 76,243 | 165.9    | 26,394 | 14.6     | 2,579 |  |  |

| Year  | LPG <sup>1,2</sup> |       | Motor Gasoline |         | Aviation Fuels <sup>3</sup> |        | Total <sup>2</sup> |         |
|-------|--------------------|-------|----------------|---------|-----------------------------|--------|--------------------|---------|
|       | TBtu               | Mbbl  | TBtu           | Mbbl    | TBtu                        | Mbbl   | TBtu               | Mbbl    |
| 1992r | 25.7               | 7,077 | 678.0          | 129,064 | 207.4                       | 36,582 | 1,667.8            | 298,633 |
| 1993r | 22.2               | 6,139 | 691.9          | 131,710 | 207.8                       | 36,653 | 1,661.0            | 297,647 |
| 1994r | 23.0               | 6,352 | 670.6          | 128,228 | 210.1                       | 37,050 | 1,595.6            | 287,262 |
| 1995r | 23.0               | 6,332 | 691.7          | 132,627 | 220.1                       | 38,825 | 1,547.4            | 280,623 |
| 1996r | 25.4               | 7,073 | 683.2          | 130,979 | 217.3                       | 38,333 | 1,591.4            | 287,810 |
| 1997r | 24.1               | 6,687 | 682.5          | 130,923 | 222.8                       | 39,294 | 1,548.1            | 280,835 |
| 1998r | 26.4               | 7,306 | 685.2          | 131,469 | 218.8                       | 38,581 | 1,550.0            | 280,961 |
| 1999r | 26.5               | 7,316 | 696.3          | 133,621 | 222.0                       | 39,158 | 1,603.8            | 290,502 |
| 2000r | 35.5               | 9,849 | 692.0          | 132,831 | 223.4                       | 39,393 | 1,697.1            | 306,903 |
| 2001r | 25.7               | 7,111 | 696.7          | 133,724 | 207.2                       | 36,549 | 1,665.1            | 300,796 |
| 2002r | 27.5               | 7,612 | 711.7          | 136,664 | 196.1                       | 34,584 | 1,591.2            | 289,027 |
| 2003r | 28.3               | 7,771 | 718.6          | 138,010 | 197.8                       | 34,894 | 1,773.6            | 319,367 |
| 2004r | 31.2               | 8,640 | 716.5          | 137,387 | 211.6                       | 37,317 | 1,856.0            | 333,296 |
| 2005r | 29.9               | 8,260 | 715.8          | 137,255 | 220.3                       | 38,853 | 1,819.1            | 326,781 |
| 2006p | 26.0               | 7,186 | 719.5          | 137,959 | 214.3                       | 37,787 | 1,584.4            | 288,149 |

NOTE: TBtu totals may not equal to the sum of components due to rounding.

See Glossary on page 524 for explanation of abbreviations.

p Preliminary.

r Revised.

1 Propane.

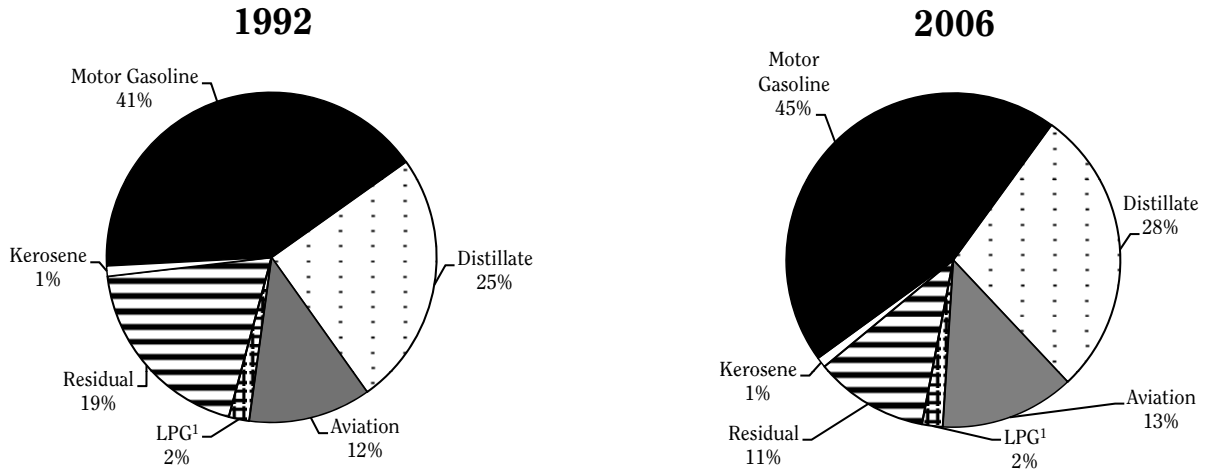
2 Excludes nonfuel uses.

3 Kerosene-type jet fuel and aviation gasoline.

SOURCE: New York State Energy Research and Development Authority.

FIGURE L-2

**Primary Consumption of Refined Petroleum Products by Type of Product  
New York State — 1992 and 2006**



1 Propane.

SOURCE: New York State Department of Environmental Conservation; material compiled by New York State Energy Research and Development Authority.

**TABLE L-6**  
**Primary Consumption of Energy for Electric Generation**  
**by Type of Fuel**  
**New York State — 1992-2006**

| Year  | Coal  |        | Natural Gas |     | Petroleum Products |       |          |        |       |        |
|-------|-------|--------|-------------|-----|--------------------|-------|----------|--------|-------|--------|
|       | TBtu  | MTons  | TBtu        | Bcf | Distillate         |       | Residual |        | Total |        |
|       |       |        |             |     | TBtu               | Mbbl  | TBtu     | Mbbl   | TBtu  | Mbbl   |
| 1992r | 277.9 | 10,727 | 261.6       | 254 | 2.9                | 499   | 181.0    | 28,786 | 183.9 | 29,285 |
| 1993r | 244.4 | 9,472  | 247.6       | 241 | 5.3                | 903   | 147.4    | 23,444 | 152.7 | 24,347 |
| 1994r | 237.1 | 9,152  | 297.0       | 289 | 13.4               | 2,300 | 111.8    | 17,786 | 125.2 | 20,086 |
| 1995r | 227.4 | 8,774  | 440.4       | 431 | 9.5                | 1,627 | 77.1     | 12,264 | 86.6  | 13,891 |
| 1996r | 232.3 | 8,992  | 326.9       | 320 | 7.4                | 1,268 | 93.9     | 14,940 | 101.3 | 16,208 |
| 1997r | 246.2 | 9,464  | 422.9       | 413 | 9.1                | 1,568 | 80.6     | 12,813 | 89.7  | 14,381 |
| 1998r | 258.6 | 9,928  | 386.3       | 377 | 8.1                | 1,390 | 145.1    | 23,075 | 153.2 | 24,465 |
| 1999r | 241.8 | 9,265  | 443.0       | 433 | 12.9               | 2,207 | 126.1    | 20,053 | 139.0 | 22,260 |
| 2000r | 254.8 | 9,763  | 380.1       | 373 | 13.7               | 2,352 | 143.3    | 22,789 | 157.0 | 25,141 |
| 2001r | 241.1 | 9,258  | 364.0       | 357 | 17.5               | 3,010 | 158.1    | 25,146 | 175.6 | 28,156 |
| 2002r | 234.3 | 9,154  | 372.5       | 366 | 13.0               | 2,229 | 108.4    | 17,244 | 121.4 | 19,473 |
| 2003r | 242.1 | 9,646  | 267.1       | 261 | 14.0               | 2,410 | 186.3    | 29,627 | 200.3 | 32,037 |
| 2004r | 233.6 | 9,702  | 266.5       | 259 | 10.1               | 1,740 | 205.7    | 32,722 | 215.8 | 34,462 |
| 2005r | 218.6 | 9,080  | 312.8       | 304 | 9.2                | 1,574 | 220.4    | 35,064 | 229.6 | 36,638 |
| 2006p | 231.1 | 9,597  | 399.2       | 388 | 2.6                | 442   | 66.6     | 10,599 | 69.2  | 11,041 |

| Year  | Hydro |        | Nuclear |        | Net Imported Electricity |        | Biofuels <sup>1</sup> |       | Wind |     | Total <sup>2</sup> |
|-------|-------|--------|---------|--------|--------------------------|--------|-----------------------|-------|------|-----|--------------------|
|       | TBtu  | GWh    | TBtu    | GWh    | TBtu                     | GWh    | TBtu                  | GWh   | TBtu | GWh | TBtu               |
| 1992r | 288.7 | 27,920 | 252.9   | 24,155 | 165.6                    | 16,587 | 37.7                  | 2,320 | —    | —   | 1,468.3            |
| 1993r | 302.1 | 29,304 | 282.4   | 26,889 | 209.8                    | 21,692 | 34.9                  | 2,374 | —    | —   | 1,473.9            |
| 1994r | 285.3 | 27,656 | 305.5   | 29,231 | 202.4                    | 20,737 | 40.1                  | 2,602 | —    | —   | 1,492.6            |
| 1995r | 267.0 | 25,895 | 276.7   | 26,336 | 132.2                    | 13,952 | 38.7                  | 2,632 | —    | —   | 1,469.0            |
| 1996r | 298.1 | 28,830 | 370.0   | 35,226 | 111.3                    | 11,770 | 41.2                  | 2,863 | —    | —   | 1,481.1            |
| 1997r | 311.5 | 30,498 | 310.3   | 29,570 | 68.2                     | 7,091  | 41.4                  | 2,809 | —    | —   | 1,490.2            |
| 1998r | 297.8 | 29,203 | 328.5   | 31,314 | 52.8                     | 5,469  | 39.6                  | 2,754 | —    | —   | 1,516.8            |
| 1999r | 252.0 | 24,648 | 386.8   | 37,019 | 90.3                     | 9,066  | 41.4                  | 2,950 | —    | —   | 1,594.3            |
| 2000r | 253.2 | 24,819 | 328.6   | 31,508 | 175.5                    | 17,657 | 41.4                  | 2,958 | 0.1  | 10  | 1,590.7            |
| 2001r | 236.2 | 23,152 | 422.0   | 40,395 | 117.9                    | 11,874 | 40.1                  | 2,704 | 0.2  | 21  | 1,597.1            |
| 2002r | 267.4 | 26,213 | 413.6   | 39,617 | 169.7                    | 17,067 | 39.2                  | 2,541 | 0.8  | 82  | 1,619.0            |
| 2003r | 263.2 | 25,798 | 423.9   | 40,679 | 179.1                    | 17,930 | 39.4                  | 2,537 | 0.4  | 41  | 1,615.5            |
| 2004r | 287.2 | 28,153 | 423.8   | 40,640 | 176.0                    | 17,488 | 41.5                  | 2,695 | 1.2  | 116 | 1,645.7            |
| 2005r | 281.4 | 27,583 | 442.6   | 42,443 | 176.7                    | 17,749 | 43.7                  | 2,868 | 1.0  | 101 | 1,706.4            |
| 2006p | 290.0 | 28,422 | 440.3   | 42,224 | 189.4                    | 18,750 | 46.8                  | 3,072 | 5.4  | 518 | 1,671.4            |

NOTE: TBtu totals may not equal to the sum of components due to rounding.

See glossary on page 524 for explanation of abbreviations.

— Represents zero.

p Preliminary.

r Revised.

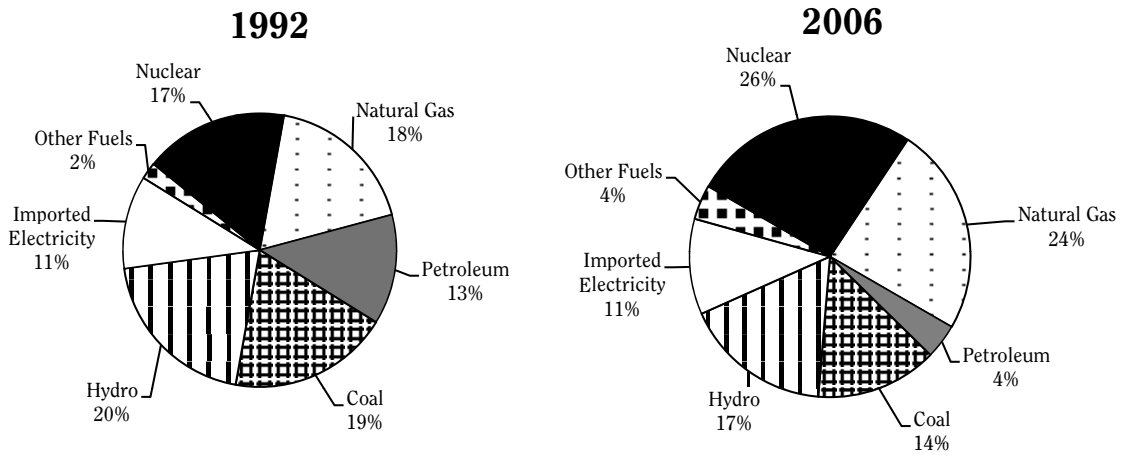
1 Includes renewable fuels and biofuels used by generators, not including wind.

2 Electricity generated from combined heat and power is included. Generation data net of station use.

SOURCE: New York State Energy Research and Development Authority.

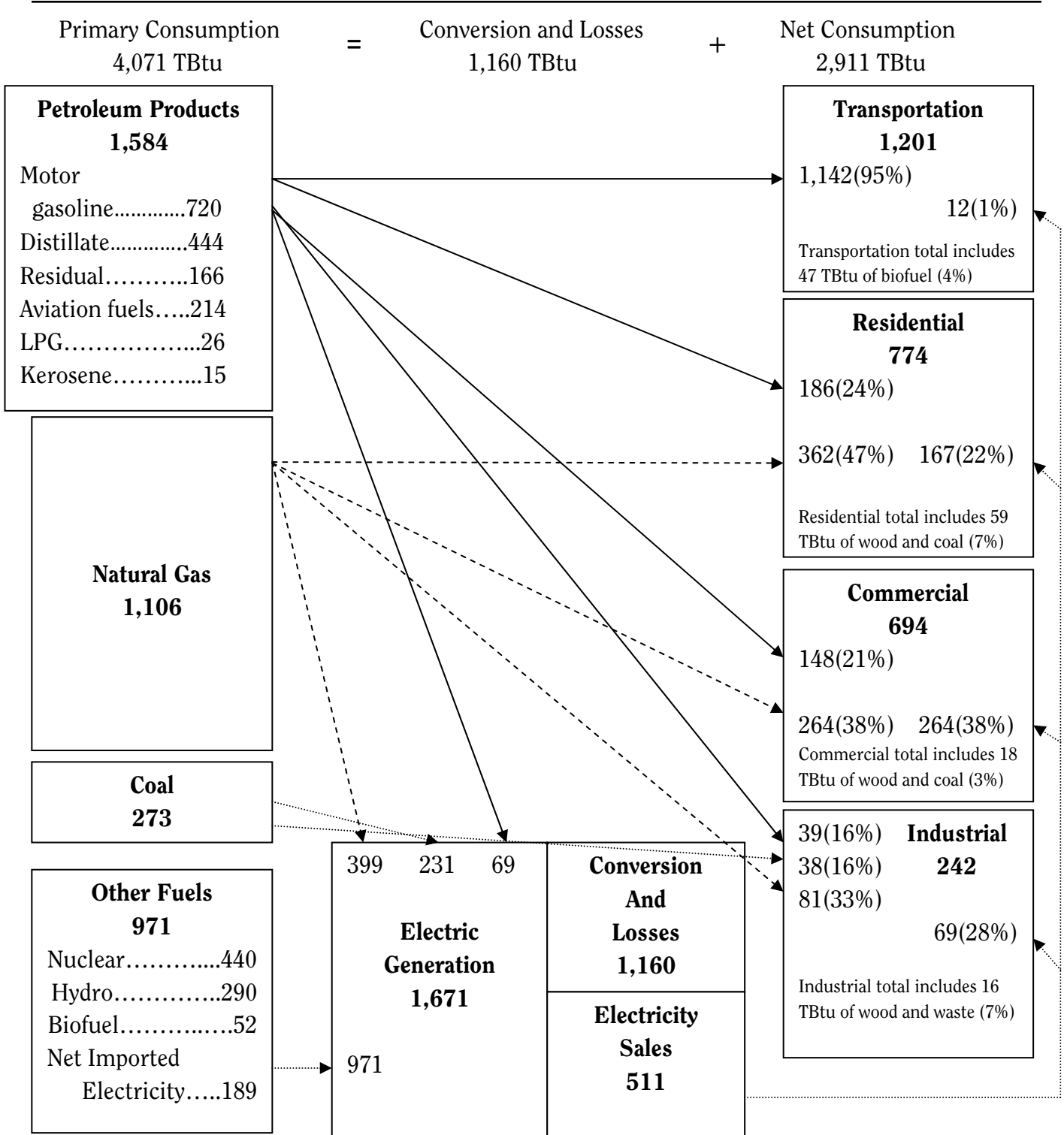
FIGURE L-3

**Primary Consumption of Energy by Electric Generation by Type of Fuel  
New York State — 1992 and 2006**



SOURCE: New York State Department of Environmental Conservation; material compiled by New York State Energy Research and Development Authority.

**FIGURE L-4**  
**Energy Flow**  
**New York State — 2006**



SOURCE: New York State Energy Research and Development Authority

TABLE L-7

**Net Consumption of Energy by the Residential Sector  
New York State — 1992-2006**

| Year  | Petroleum Products |       |             |     |            |        |          |       |
|-------|--------------------|-------|-------------|-----|------------|--------|----------|-------|
|       | Coal               |       | Natural Gas |     | Distillate |        | Kerosene |       |
|       | TBtu               | MTons | TBtu        | Bcf | TBtu       | Mbbl   | TBtu     | Mbbl  |
| 1992r | 1.2                | 50    | 389.8       | 379 | 189.6      | 32,553 | 7.1      | 1,252 |
| 1993r | 1.0                | 42    | 395.4       | 384 | 178.3      | 30,618 | 8.9      | 1,565 |
| 1994r | 0.7                | 28    | 396.3       | 385 | 173.4      | 29,769 | 7.9      | 1,396 |
| 1995r | 0.7                | 29    | 386.7       | 375 | 166.7      | 28,624 | 7.0      | 1,240 |
| 1996r | 0.8                | 34    | 414.1       | 403 | 176.1      | 30,240 | 8.2      | 1,450 |
| 1997r | 0.7                | 28    | 385.8       | 376 | 171.1      | 29,367 | 9.9      | 1,744 |
| 1998r | 0.4                | 16    | 349.5       | 340 | 155.2      | 26,637 | 10.6     | 1,866 |
| 1999r | 0.6                | 22    | 381.3       | 371 | 165.1      | 28,347 | 13.2     | 2,327 |
| 2000r | 0.3                | 11    | 413.1       | 400 | 205.2      | 35,229 | 13.3     | 2,344 |
| 2001r | 0.3                | 13    | 388.8       | 376 | 212.6      | 36,502 | 13.6     | 2,390 |
| 2002r | 0.1                | 5     | 362.9       | 370 | 191.6      | 32,893 | 9.3      | 1,642 |
| 2003r | 0.3                | 11    | 427.9       | 410 | 197.2      | 33,847 | 9.3      | 1,639 |
| 2004r | 0.4                | 18    | 399.3       | 393 | 199.6      | 34,263 | 11.7     | 2,065 |
| 2005r | 0.4                | 18    | 412.5       | 406 | 204.2      | 35,054 | 12.5     | 2,203 |
| 2006p | 0.4                | 18    | 361.7       | 356 | 160.2      | 27,501 | 10.2     | 1,803 |

| Year  | Petroleum Products (continued) |       |       |        |      |        |             |        |       |  |
|-------|--------------------------------|-------|-------|--------|------|--------|-------------|--------|-------|--|
|       | LPG <sup>1</sup>               |       | Total |        | Wood |        | Electricity |        | Total |  |
|       | TBtu                           | Mbbl  | TBtu  | Mbbl   | TBtu | Mcords | TBtu        | GWh    | TBtu  |  |
| 1992r | 18.0                           | 4,965 | 214.7 | 38,770 | 41.8 | 2,092  | 132.1       | 38,720 | 779.6 |  |
| 1993r | 15.5                           | 4,293 | 202.7 | 36,476 | 55.2 | 2,758  | 136.1       | 39,897 | 790.4 |  |
| 1994r | 15.8                           | 4,350 | 197.1 | 35,515 | 52.4 | 2,618  | 136.8       | 40,105 | 783.3 |  |
| 1995r | 16.4                           | 4,516 | 190.1 | 34,380 | 52.4 | 2,618  | 136.1       | 39,887 | 766.0 |  |
| 1996r | 17.8                           | 4,937 | 202.1 | 36,627 | 54.4 | 2,719  | 137.5       | 40,285 | 808.9 |  |
| 1997r | 15.8                           | 4,379 | 196.8 | 35,490 | 84.0 | 4,202  | 136.7       | 40,059 | 804.0 |  |
| 1998r | 15.6                           | 4,323 | 181.4 | 32,826 | 74.7 | 3,734  | 138.4       | 40,563 | 744.4 |  |
| 1999r | 17.0                           | 4,691 | 195.3 | 35,365 | 78.6 | 3,931  | 146.4       | 42,919 | 802.2 |  |
| 2000r | 22.4                           | 6,211 | 240.9 | 43,784 | 84.5 | 4,225  | 146.8       | 43,018 | 885.6 |  |
| 2001r | 17.0                           | 4,698 | 243.2 | 43,590 | 55.1 | 2,755  | 150.9       | 44,236 | 838.3 |  |
| 2002r | 19.7                           | 5,441 | 220.6 | 39,976 | 55.9 | 2,796  | 158.5       | 46,457 | 798.0 |  |
| 2003r | 19.6                           | 5,390 | 226.1 | 40,876 | 58.9 | 2,943  | 160.8       | 47,116 | 874.0 |  |
| 2004r | 21.6                           | 5,961 | 232.9 | 42,289 | 60.3 | 3,017  | 161.7       | 47,379 | 854.6 |  |
| 2005r | 17.7                           | 4,903 | 234.4 | 42,160 | 61.8 | 3,091  | 172.4       | 50,533 | 881.5 |  |
| 2006p | 15.4                           | 4,266 | 185.8 | 33,570 | 58.8 | 2,940  | 166.8       | 48,896 | 773.5 |  |

NOTE: TBtu totals may not equal to the sum of components due to rounding.

See Glossary on page 524 for explanation of abbreviations.

p Preliminary.

r Revised.

1 Propane.

SOURCE: New York State Energy Research and Development Authority.

TABLE L-8

**Net Consumption of Energy by the Commercial Sector  
New York State — 1992-2006**

| Year  | Petroleum Products |       |             |     |            |        |          |        |
|-------|--------------------|-------|-------------|-----|------------|--------|----------|--------|
|       | Coal               |       | Natural Gas |     | Distillate |        | Residual |        |
|       | TBtu               | MTons | TBtu        | Bcf | TBtu       | Mbbl   | TBtu     | Mbbl   |
| 1992r | 5.6                | 226   | 223.6       | 217 | 94.1       | 16,161 | 99.2     | 15,773 |
| 1993r | 4.6                | 190   | 227.2       | 221 | 94.0       | 16,130 | 108.8    | 17,303 |
| 1994r | 3.9                | 157   | 229.6       | 223 | 94.6       | 16,232 | 101.0    | 16,057 |
| 1995r | 4.8                | 191   | 238.5       | 231 | 91.5       | 15,711 | 85.2     | 13,555 |
| 1996r | 6.2                | 249   | 259.9       | 253 | 90.5       | 15,531 | 80.4     | 12,791 |
| 1997r | 5.6                | 226   | 329.5       | 321 | 83.5       | 14,337 | 63.5     | 10,105 |
| 1998r | 3.3                | 131   | 345.3       | 335 | 69.4       | 11,914 | 42.5     | 6,765  |
| 1999r | 4.0                | 158   | 370.4       | 360 | 81.2       | 13,946 | 46.8     | 7,439  |
| 2000r | 2.3                | 90    | 377.7       | 366 | 88.1       | 15,128 | 59.3     | 9,429  |
| 2001r | 2.5                | 102   | 358.9       | 347 | 98.2       | 16,865 | 45.2     | 7,193  |
| 2002r | 1.0                | 40    | 355.6       | 362 | 87.6       | 15,032 | 54.6     | 8,678  |
| 2003r | 1.8                | 73    | 354.5       | 339 | 111.8      | 19,198 | 67.8     | 10,784 |
| 2004r | 3.6                | 143   | 365.1       | 359 | 116.0      | 19,907 | 71.9     | 11,441 |
| 2005r | 3.5                | 141   | 280.7       | 276 | 105.4      | 18,086 | 63.3     | 10,066 |
| 2006p | 3.5                | 139   | 264.4       | 260 | 93.5       | 16,049 | 50.0     | 7,950  |

| Year  | Petroleum Products (continued) |      |                  |       |       |        |            |             |        |       |
|-------|--------------------------------|------|------------------|-------|-------|--------|------------|-------------|--------|-------|
|       | Kerosene                       |      | LPG <sup>1</sup> |       | Total |        | Wood Waste | Electricity |        | Total |
|       | TBtu                           | Mbbl | TBtu             | Mbbl  | TBtu  | Mbbl   | TBtu       | TBtu        | GWh    | TBtu  |
| 1992r | 2.3                            | 408  | 3.2              | 876   | 198.8 | 33,218 | 4.8        | 191.3       | 56,079 | 624.1 |
| 1993r | 3.5                            | 616  | 2.7              | 758   | 209.0 | 34,807 | 7.6        | 195.9       | 57,410 | 644.3 |
| 1994r | 3.1                            | 538  | 2.8              | 768   | 201.5 | 33,595 | 8.2        | 200.6       | 58,802 | 643.8 |
| 1995r | 4.1                            | 714  | 2.9              | 797   | 183.7 | 30,777 | 10.6       | 213.3       | 62,509 | 650.9 |
| 1996r | 4.3                            | 751  | 3.1              | 871   | 178.3 | 29,944 | 11.0       | 213.8       | 62,663 | 669.2 |
| 1997r | 4.5                            | 801  | 2.8              | 773   | 154.3 | 26,016 | 17.7       | 218.5       | 64,033 | 725.6 |
| 1998r | 5.6                            | 981  | 2.8              | 763   | 120.3 | 20,423 | 15.9       | 224.6       | 65,834 | 709.4 |
| 1999r | 3.9                            | 682  | 3.0              | 828   | 134.9 | 22,895 | 16.8       | 231.9       | 67,969 | 758.0 |
| 2000r | 5.4                            | 948  | 4.0              | 1,096 | 156.8 | 26,601 | 18.1       | 240.3       | 70,417 | 795.2 |
| 2001r | 5.0                            | 874  | 3.0              | 829   | 151.4 | 25,761 | 14.1       | 245.2       | 71,850 | 772.1 |
| 2002r | 2.8                            | 493  | 3.5              | 960   | 148.5 | 25,163 | 14.4       | 249.8       | 73,198 | 769.3 |
| 2003r | 3.8                            | 665  | 3.5              | 951   | 186.9 | 31,598 | 14.8       | 247.4       | 72,495 | 805.4 |
| 2004r | 4.2                            | 745  | 3.8              | 1,052 | 195.9 | 33,145 | 14.7       | 253.8       | 74,378 | 833.1 |
| 2005r | 4.3                            | 759  | 3.1              | 865   | 176.0 | 29,776 | 14.7       | 262.1       | 76,822 | 737.1 |
| 2006p | 2.0                            | 354  | 2.7              | 753   | 148.2 | 25,105 | 14.0       | 264.2       | 77,419 | 694.2 |

NOTE: TBtu totals may not equal to the sum of components due to rounding.

See Glossary on page 524 for explanation of abbreviations.

p Preliminary.

r Revised.

1 Propane.

SOURCE: New York State Energy Research and Development Authority.

**TABLE L-9**  
**Net Consumption of Energy by the Industrial Sector**  
**New York State — 1992-2006**

| Year  | Petroleum Products |       |             |     |            |       |          |       |
|-------|--------------------|-------|-------------|-----|------------|-------|----------|-------|
|       | Coal               |       | Natural Gas |     | Distillate |       | Residual |       |
|       | TBtu               | MTons | TBtu        | Bcf | TBtu       | Mbbl  | TBtu     | Mbbl  |
| 1992r | 71.3               | 2,758 | 152.8       | 148 | 21.1       | 3,624 | 19.2     | 3,060 |
| 1993r | 76.2               | 2,947 | 146.5       | 142 | 25.1       | 4,317 | 24.3     | 3,860 |
| 1994r | 75.1               | 2,893 | 166.3       | 162 | 19.9       | 3,411 | 19.9     | 3,160 |
| 1995r | 72.4               | 2,791 | 221.2       | 215 | 17.9       | 3,071 | 12.5     | 1,990 |
| 1996r | 72.5               | 2,799 | 221.4       | 216 | 17.8       | 3,053 | 15.4     | 2,456 |
| 1997r | 72.7               | 2,804 | 212.1       | 207 | 17.0       | 2,922 | 12.4     | 1,965 |
| 1998r | 75.1               | 2,878 | 177.8       | 173 | 17.6       | 3,016 | 11.7     | 1,868 |
| 1999r | 71.6               | 2,742 | 105.2       | 102 | 20.0       | 3,441 | 10.2     | 1,623 |
| 2000r | 73.5               | 2,747 | 100.2       | 97  | 19.1       | 3,285 | 12.6     | 2,005 |
| 2001r | 63.1               | 2,411 | 86.8        | 84  | 17.4       | 2,981 | 9.7      | 1,544 |
| 2002r | 45.2               | 1,708 | 95.0        | 92  | 16.8       | 2,889 | 8.6      | 1,362 |
| 2003r | 41.9               | 1,583 | 84.7        | 82  | 17.2       | 2,960 | 10.0     | 1,584 |
| 2004r | 38.9               | 1,472 | 80.6        | 78  | 20.3       | 3,481 | 9.3      | 1,483 |
| 2005r | 38.4               | 1,451 | 83.7        | 81  | 19.6       | 3,371 | 8.4      | 1,337 |
| 2006p | 37.9               | 1,433 | 80.6        | 78  | 20.9       | 3,592 | 8.2      | 1,308 |

| Year  | Petroleum Products (continued) |      |                  |       |       |       |            |             |        |                    |
|-------|--------------------------------|------|------------------|-------|-------|-------|------------|-------------|--------|--------------------|
|       | Kerosene                       |      | LPG <sup>1</sup> |       | Total |       | Wood Waste | Electricity |        | Total <sup>2</sup> |
|       | TBtu                           | Mbbl | TBtu             | Mbbl  | TBtu  | Mbbl  | TBtu       | TBtu        | GWh    | TBtu               |
| 1992r | 1.1                            | 201  | 4.0              | 1,092 | 45.4  | 7,977 | 20.2       | 105.9       | 31,027 | 395.6              |
| 1993r | 1.4                            | 241  | 3.5              | 961   | 54.3  | 9,379 | 19.6       | 103.0       | 30,187 | 399.6              |
| 1994r | 2.0                            | 355  | 3.4              | 948   | 45.2  | 7,874 | 21.3       | 100.5       | 29,467 | 408.4              |
| 1995r | 2.3                            | 409  | 3.2              | 881   | 35.9  | 6,351 | 20.9       | 86.4        | 25,317 | 436.8              |
| 1996r | 3.9                            | 682  | 4.1              | 1,142 | 41.2  | 7,333 | 32.6       | 88.5        | 25,947 | 456.2              |
| 1997r | 2.0                            | 361  | 5.2              | 1,445 | 36.6  | 6,693 | 34.5       | 86.3        | 25,285 | 442.2              |
| 1998r | 2.9                            | 511  | 6.1              | 1,687 | 38.3  | 7,082 | 28.9       | 86.0        | 25,218 | 406.1              |
| 1999r | 0.4                            | 77   | 6.4              | 1,772 | 37.0  | 6,913 | 30.4       | 88.2        | 25,835 | 332.4              |
| 2000r | 0.9                            | 151  | 8.3              | 2,308 | 40.9  | 7,749 | 32.1       | 88.2        | 25,838 | 334.9              |
| 2001r | 1.0                            | 180  | 5.6              | 1,559 | 33.7  | 6,264 | 17.8       | 86.8        | 25,450 | 288.2              |
| 2002r | 1.4                            | 238  | 4.1              | 1,145 | 30.9  | 5,634 | 14.1       | 85.8        | 25,148 | 271.0              |
| 2003r | 5.0                            | 891  | 5.0              | 1,379 | 37.2  | 6,814 | 13.9       | 74.2        | 21,745 | 251.9              |
| 2004r | 2.1                            | 372  | 5.6              | 1,561 | 37.3  | 6,897 | 17.3       | 70.5        | 20,675 | 244.6              |
| 2005r | 3.8                            | 670  | 8.8              | 2,417 | 40.6  | 7,795 | 15.6       | 68.1        | 19,947 | 246.3              |
| 2006p | 2.4                            | 422  | 7.7              | 2,103 | 39.2  | 7,425 | 15.8       | 68.6        | 20,102 | 242.0              |

NOTE: TBtu totals may not equal to the sum of components due to rounding.

See Glossary on page 524 for explanation of abbreviations.

p Preliminary.

r Revised.

1 Propane.

2 Excludes non-fuel uses (e.g., feedstock).

SOURCE: New York State Energy Research and Development Authority.

**TABLE L-10**  
**Net Consumption of Energy by the Transportation Sector**  
**New York State — 1992-2006**

| Year  | Natural Gas |     | Distillate |        | Residual |       | Motor Gasoline |         | Aviation Fuels <sup>1</sup> |        |
|-------|-------------|-----|------------|--------|----------|-------|----------------|---------|-----------------------------|--------|
|       | TBtu        | Bcf | TBtu       | Mbbl   | TBtu     | Mbbl  | TBtu           | Mbbl    | TBtu                        | Mbbl   |
| 1992r | 6.2         | 6   | 115.9      | 19,905 | 23.2     | 3,688 | 678.0          | 129,064 | 207.4                       | 36,582 |
| 1993r | 6.4         | 6   | 121.9      | 20,932 | 20.2     | 3,216 | 691.9          | 131,710 | 207.8                       | 36,653 |
| 1994r | 6.4         | 6   | 125.3      | 21,506 | 19.6     | 3,122 | 670.6          | 128,228 | 210.1                       | 37,050 |
| 1995r | 8.6         | 8   | 124.2      | 21,316 | 14.6     | 2,318 | 691.7          | 132,627 | 220.1                       | 38,825 |
| 1996r | 8.4         | 8   | 127.1      | 21,822 | 40.5     | 6,441 | 683.2          | 130,979 | 217.3                       | 38,333 |
| 1997r | 7.7         | 8   | 133.0      | 22,839 | 32.1     | 5,109 | 682.5          | 130,923 | 222.8                       | 39,294 |
| 1998r | 8.2         | 8   | 125.6      | 21,558 | 25.3     | 4,024 | 685.2          | 131,469 | 218.8                       | 38,581 |
| 1999r | 8.8         | 9   | 140.0      | 24,028 | 39.2     | 6,237 | 696.3          | 133,621 | 222.0                       | 39,158 |
| 2000r | 8.5         | 8   | 134.2      | 23,044 | 51.1     | 8,126 | 692.0          | 132,831 | 223.4                       | 39,393 |
| 2001r | 6.2         | 6   | 137.0      | 23,520 | 20.2     | 3,207 | 696.7          | 133,724 | 207.2                       | 36,549 |
| 2002r | 8.8         | 9   | 137.7      | 23,641 | 24.1     | 3,826 | 711.7          | 133,664 | 196.1                       | 34,584 |
| 2003r | 42.2        | 40  | 177.7      | 30,504 | 28.8     | 4,583 | 718.6          | 138,010 | 197.8                       | 34,894 |
| 2004r | 8.7         | 9   | 209.2      | 35,910 | 36.6     | 5,823 | 716.5          | 137,387 | 211.6                       | 37,317 |
| 2005r | 9.4         | 10  | 166.3      | 28,545 | 35.7     | 5,684 | 715.8          | 137,255 | 220.3                       | 38,853 |
| 2006p | 10.3        | 11  | 166.9      | 28,660 | 41.1     | 6,538 | 719.5          | 137,959 | 214.3                       | 37,787 |

| Year  | LPG <sup>2</sup> |      | Total Petroleum |         | Ethanol |        | Electricity |       | Total   |
|-------|------------------|------|-----------------|---------|---------|--------|-------------|-------|---------|
|       | TBtu             | Mbbl | TBtu            | Mbbl    | TBtu    | Mbbl   | TBtu        | GWh   | TBtu    |
| 1992r | 0.5              | 144  | 1,025.0         | 189,383 | —       | —      | 9.0         | 2,644 | 1,040.2 |
| 1993r | 0.5              | 127  | 1,042.3         | 192,638 | 0.3     | 83     | 9.1         | 2,676 | 1,058.1 |
| 1994r | 1.0              | 286  | 1,026.6         | 190,192 | 0.7     | 205    | 9.6         | 2,803 | 1,043.3 |
| 1995r | 0.5              | 138  | 1,051.1         | 195,224 | 2.3     | 654    | 9.4         | 2,757 | 1,071.4 |
| 1996r | 0.4              | 123  | 1,068.5         | 197,698 | 2.0     | 552    | 9.0         | 2,632 | 1,087.9 |
| 1997r | 0.3              | 90   | 1,070.7         | 198,255 | 1.9     | 532    | 8.8         | 2,567 | 1,089.1 |
| 1998r | 1.9              | 533  | 1,056.8         | 196,165 | 1.4     | 394    | 8.8         | 2,580 | 1,075.2 |
| 1999r | 0.1              | 25   | 1,097.6         | 203,069 | 1.2     | 341    | 9.1         | 2,654 | 1,116.7 |
| 2000r | 0.8              | 234  | 1,101.5         | 203,628 | 1.3     | 377    | 9.4         | 2,753 | 1,120.7 |
| 2001r | 0.1              | 25   | 1,061.2         | 197,025 | 0.4     | 107    | 9.0         | 2,646 | 1,076.8 |
| 2002r | 0.2              | 66   | 1,069.8         | 198,781 | 0.3     | 95     | 9.0         | 2,637 | 1,087.9 |
| 2003r | 0.2              | 51   | 1,123.1         | 208,042 | 1.9     | 549    | 9.2         | 2,689 | 1,176.4 |
| 2004r | 0.2              | 66   | 1,174.1         | 216,503 | 24.9    | 7,024  | 9.0         | 2,650 | 1,216.7 |
| 2005r | 0.3              | 75   | 1,138.4         | 210,412 | 27.6    | 7,811  | 9.7         | 2,846 | 1,185.2 |
| 2006p | 0.3              | 65   | 1,142.0         | 211,008 | 37.0    | 10,477 | 11.7        | 3,421 | 1,201.0 |

NOTE: TBtu totals may not equal to the sum of components due to rounding.

See Glossary on page 524 for explanation of abbreviations.

— Represents zero.

p Preliminary.

r Revised.

1 Kerosene-type jet fuel and aviation gasoline.

2 Propane.

SOURCE: New York State Energy Research and Development Authority.

**TABLE L-11**  
**Net Energy Bill by Sector and Type of Fuel**  
**New York State — Selected Years 1992–2006**  
(millions of current dollars)

| Fuel             | All Sectors | Residential | Commercial  | Industrial | Transportation |
|------------------|-------------|-------------|-------------|------------|----------------|
| --- 1992r ---    |             |             |             |            |                |
| All Fuels        | \$ 29,276.9 | \$ 9,449.9  | \$ 8,135.7  | \$ 3,091.2 | \$ 8,600.1     |
| Coal             | 137.8       | 3.9         | 9.8         | 124.2      | X              |
| Petroleum        | 11,212.1    | 1,762.6     | 846.8       | 216.7      | 8,386.1        |
| Distillate       | 3,123.7     | 1,461.6     | 515.1       | 116.3      | 1,030.7        |
| Residual         | 396.2       | X           | 286.7       | 55.5       | 54.0           |
| Gasoline         | 6,293.1     | X           | X           | X          | 6,293.1        |
| Kerosene         | 59.9        | 41.2        | 13.3        | 5.4        | X              |
| Aviation         | 1,003.3     | X           | X           | X          | 1,003.3        |
| LPG <sup>1</sup> | 335.9       | 259.8       | 31.6        | 39.5       | 4.9            |
| Natural Gas      | 4,852.2     | 2,871.0     | 1,249.3     | 731.9      | X              |
| Electricity      | 13,074.7    | 4,812.5     | 6,029.8     | 2,018.5    | 214.0          |
| --- 1997r ---    |             |             |             |            |                |
| All Fuels        | \$ 30,054.0 | \$ 10,980.3 | \$ 10,302.1 | \$ 2,677.0 | \$ 9,408.9     |
| Coal             | 134.3       | 2.5         | 9.2         | 122.5      | X              |
| Petroleum        | 11,785.2    | 1,665.6     | 733.6       | 197.0      | 9,189.0        |
| Distillate       | 3,152.2     | 1,366.4     | 459.0       | 91.7       | 1,235.2        |
| Residual         | 350.7       | X           | 218.4       | 42.6       | 89.7           |
| Gasoline         | 6,852.8     | X           | X           | X          | 6,852.8        |
| Kerosene         | 100.6       | 61.9        | 28.1        | 10.5       | X              |
| Aviation         | 1,008.4     | X           | X           | X          | 1,008.4        |
| LPG <sup>1</sup> | 320.5       | 237.2       | 28.1        | 52.2       | 3.0            |
| Natural Gas      | 6,180.1     | 3,655.0     | 2,082.2     | 1,042.9    | X              |
| Electricity      | 14,668.7    | 5,657.2     | 7,477.1     | 1,314.6    | 219.8          |
| --- 2002r ---    |             |             |             |            |                |
| All Fuels        | \$ 36,454.4 | \$ 12,080.7 | \$ 11,805.9 | \$ 2,124.6 | \$ 10,443.3    |
| Coal             | 89.1        | 0.4         | 1.9         | 86.8       | X              |
| Petroleum        | 13,427.2    | 2,145.1     | 847.8       | 200.6      | 10,233.7       |
| Distillate       | 3,771.3     | 1,750.0     | 558.4       | 107.2      | 1,355.7        |
| Residual         | 344.1       | X           | 225.0       | 35.4       | 83.7           |
| Gasoline         | 7,705.3     | X           | X           | X          | 7,705.3        |
| Kerosene         | 104.3       | 73.7        | 22.2        | 8.4        | X              |
| Aviation         | 1,086.5     | X           | X           | X          | 1,086.5        |
| LPG <sup>1</sup> | 415.8       | 321.5       | 42.3        | 49.5       | 2.4            |
| Natural Gas      | 6,501.9     | 3,641.1     | 2,325.4     | 535.3      | X              |
| Electricity      | 16,436.3    | 6,294.1     | 8,630.8     | 1,301.9    | 209.6          |
| --- 2006p ---    |             |             |             |            |                |
| All Fuels        | \$ 59,503.0 | \$ 17,373.1 | \$ 15,654.3 | \$ 3,302.7 | \$ 23,172.9    |
| Coal             | 126.0       | 2.1         | 10.0        | 113.8      | X              |
| Petroleum        | 29,011.0    | 3,606.8     | 2,007.7     | 615.7      | 22,780.9       |
| Distillate       | 8,170.6     | 2,988.4     | 1,469.9     | 331.9      | 3,380.4        |
| Residual         | 835.8       | X           | 439.6       | 72.3       | 323.8          |
| Gasoline         | 15,837.4    | X           | X           | X          | 15,837.4       |
| Kerosene         | 290.5       | 217.0       | 36.6        | 36.9       | X              |
| Aviation         | 3,233.3     | X           | X           | X          | 3,233.3        |
| LPG <sup>1</sup> | 643.4       | 401.4       | 61.5        | 174.6      | 6.0            |
| Natural Gas      | 9,559.3     | 5,603.5     | 3,115.3     | 840.5      | X              |
| Electricity      | 20,806.7    | 8,160.7     | 10,521.2    | 1,732.6    | 392.0          |

NOTE: Detail may not add to totals due to rounding.

p Preliminary.

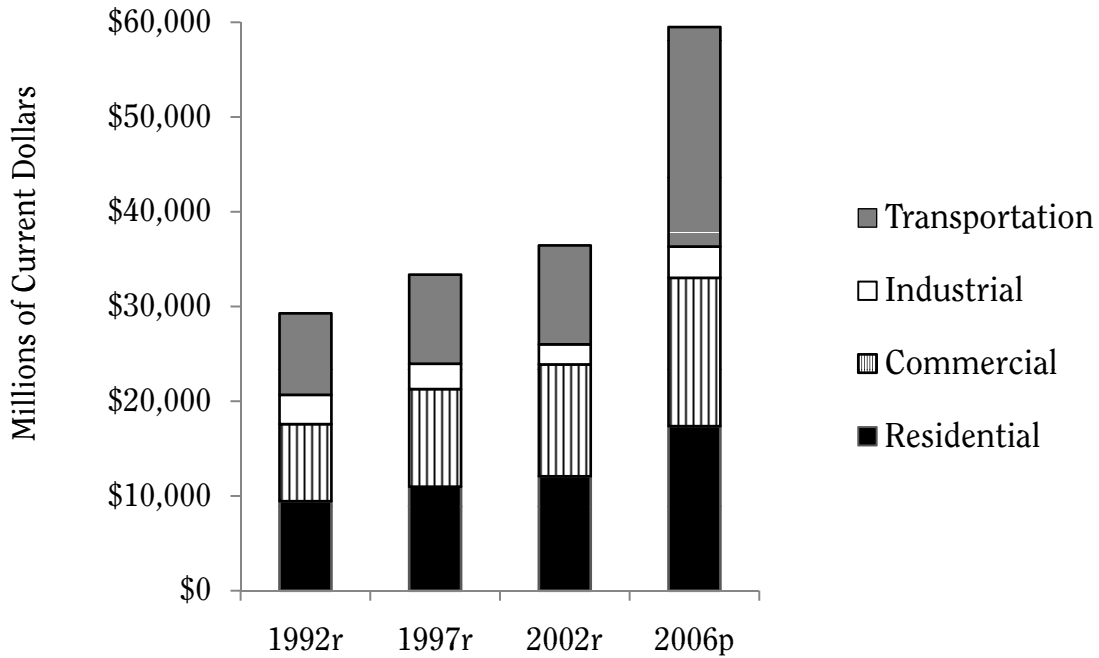
r Revised.

X Not applicable.

1 Propane.

SOURCE: New York State Energy Research and Development Authority.

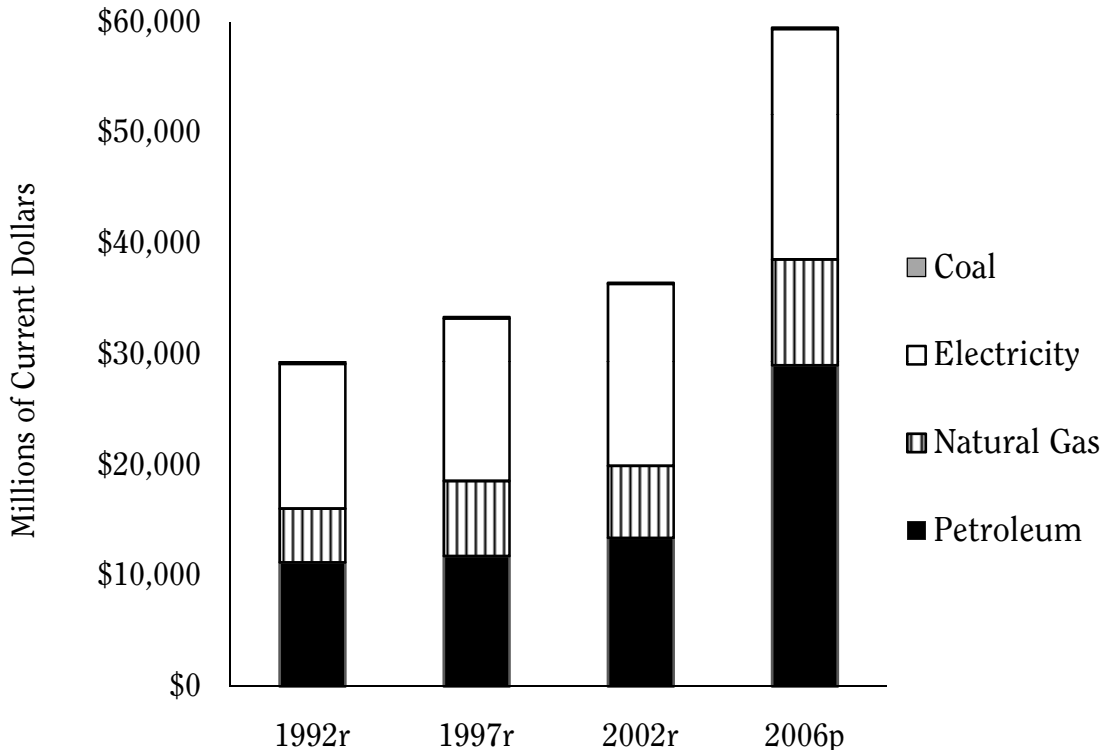
**FIGURE L-5**  
**Net Energy Costs by Sector**  
**New York State — Selected Years 1992-2006**



p Preliminary.  
r Revised.

SOURCE: New York State Energy Research and Development Authority.

**FIGURE L-6**  
**Net Energy Costs by Fuel Type**  
**New York State — Selected Years 1992-2006**



NOTE: Because coal is a small subgroup, it is not viewable in this chart. The Net Energy Costs for Coal in 1991 is \$156.8; 1996 is \$131.5; 2001 is \$123.8; and 2005 is \$139.4.

p Preliminary.  
r Revised.

SOURCE: New York State Energy Research and Development Authority.

TABLE L-12

**Residential Retail Energy Prices  
New York State — 1992-2006**

| Date  | Coal   |          | Distillate <sup>1</sup> |          | Kerosene     |          | LPG <sup>2</sup> |          | Natural Gas |          | Electricity |          |
|-------|--------|----------|-------------------------|----------|--------------|----------|------------------|----------|-------------|----------|-------------|----------|
|       | \$/ton | \$/MMBtu | cents/gallon            | \$/MMBtu | cents/gallon | \$/MMBtu | cents/gallon     | \$/MMBtu | \$/Mcf      | \$/MMBtu | cents/kWh   | \$/MMBtu |
| 1992r | 74.23  | 3.21     | 106.91                  | 7.71     | 78.31        | 5.80     | 124.54           | 14.43    | 7.59        | 7.37     | 12.43       | 36.43    |
| 1993r | 74.76  | 3.25     | 104.10                  | 7.51     | 75.09        | 5.56     | 114.59           | 13.35    | 8.14        | 7.91     | 13.17       | 38.61    |
| 1994r | 76.00  | 3.29     | 100.46                  | 7.24     | 75.92        | 5.62     | 126.05           | 14.56    | 8.75        | 8.51     | 13.55       | 39.72    |
| 1995r | 73.54  | 3.18     | 99.32                   | 7.16     | 72.70        | 5.38     | 123.14           | 14.27    | 8.39        | 8.17     | 13.90       | 40.73    |
| 1996r | 77.77  | 3.38     | 110.55                  | 7.97     | 81.43        | 6.03     | 128.44           | 14.93    | 8.90        | 8.67     | 14.04       | 41.14    |
| 1997r | 80.33  | 3.57     | 110.76                  | 7.99     | 84.45        | 6.26     | 129.27           | 15.02    | 9.73        | 9.47     | 14.12       | 41.38    |
| 1998r | 70.34  | 3.25     | 98.59                   | 7.11     | 59.90        | 4.44     | 119.18           | 13.85    | 9.62        | 9.31     | 13.62       | 39.91    |
| 1999r | 76.72  | 3.21     | 100.78                  | 7.27     | 73.63        | 5.45     | 121.06           | 14.06    | 9.12        | 8.87     | 13.27       | 38.90    |
| 2000r | 75.51  | 3.02     | 149.97                  | 10.81    | 127.50       | 9.44     | 152.36           | 17.74    | 9.80        | 9.55     | 13.97       | 40.95    |
| 2001r | 85.19  | 3.42     | 141.75                  | 10.22    | 117.94       | 8.74     | 159.85           | 18.58    | 11.70       | 11.37    | 14.04       | 41.14    |
| 2002r | 83.33  | 3.63     | 126.67                  | 9.13     | 106.91       | 7.92     | 140.40           | 16.32    | 10.32       | 10.03    | 13.55       | 39.71    |
| 2003r | 76.15  | 3.42     | 149.55                  | 10.78    | 134.66       | 9.97     | 160.38           | 18.56    | 11.46       | 11.09    | 14.31       | 41.94    |
| 2004r | 80.35  | 3.60     | 169.61                  | 12.23    | 162.11       | 12.01    | 178.16           | 20.68    | 12.63       | 12.30    | 14.54       | 42.62    |
| 2005r | 90.23  | 4.04     | 219.13                  | 15.80    | 214.92       | 15.92    | 199.27           | 23.12    | 14.91       | 14.52    | 15.72       | 46.07    |
| 2006p | 121.47 | 5.51     | 258.73                  | 18.65    | 286.60       | 21.23    | 223.65           | 26.06    | 15.91       | 15.49    | 16.69       | 48.92    |

NOTE: See glossary on page 524 for explanation of abbreviations.  
p Preliminary.  
r Revised.

1 Home heating oil.  
2 Propane.  
SOURCE: New York State Energy Research and Development Authority.

TABLE L-13

**Commercial Retail Energy Prices  
New York State — 1992-2006**

| Date  | Coal   |          | Distillate   |          | Residual |          | Kerosene     |          | Natural Gas |          | Electricity |          |
|-------|--------|----------|--------------|----------|----------|----------|--------------|----------|-------------|----------|-------------|----------|
|       | \$/ton | \$/MMBtu | cents/gallon | \$/MMBtu | \$/bbl   | \$/MMBtu | cents/gallon | \$/MMBtu | \$/Mcf      | \$/MMBtu | cents/kWh   | \$/MMBtu |
| 1992r | 40.43  | 1.75     | 75.92        | 5.47     | 18.17    | 2.89     | 78.31        | 5.80     | 5.76        | 5.59     | 10.75       | 31.52    |
| 1993r | 38.39  | 1.67     | 73.32        | 5.29     | 18.13    | 2.88     | 75.09        | 5.56     | 6.15        | 5.99     | 11.23       | 32.92    |
| 1994r | 38.60  | 1.67     | 71.45        | 5.15     | 19.39    | 3.08     | 75.92        | 5.62     | 6.52        | 6.33     | 11.27       | 33.03    |
| 1995r | 38.61  | 1.67     | 70.20        | 5.06     | 21.01    | 3.34     | 72.70        | 5.38     | 6.07        | 5.91     | 11.48       | 33.64    |
| 1996r | 36.82  | 1.60     | 83.30        | 6.01     | 25.38    | 4.04     | 81.43        | 6.03     | 6.88        | 6.69     | 11.62       | 34.05    |
| 1997r | 37.12  | 1.65     | 76.23        | 5.50     | 21.62    | 3.44     | 84.45        | 6.26     | 6.49        | 6.32     | 11.68       | 34.22    |
| 1998r | 29.62  | 1.37     | 60.94        | 4.39     | 14.98    | 2.38     | 59.90        | 4.44     | 6.10        | 5.91     | 11.04       | 32.36    |
| 1999r | 32.00  | 1.34     | 65.31        | 4.71     | 17.47    | 2.78     | 73.63        | 5.45     | 5.15        | 5.01     | 10.33       | 30.28    |
| 2000r | 40.03  | 1.60     | 110.34       | 7.96     | 28.92    | 4.60     | 127.50       | 9.44     | 7.72        | 7.53     | 12.10       | 35.46    |
| 2001r | 40.35  | 1.62     | 93.60        | 6.75     | 25.60    | 4.07     | 117.94       | 8.74     | 9.57        | 9.30     | 12.24       | 35.55    |
| 2002r | 44.09  | 1.92     | 88.40        | 6.37     | 25.90    | 4.12     | 106.91       | 7.92     | 6.73        | 6.54     | 11.79       | 34.55    |
| 2003r | 39.15  | 1.76     | 109.87       | 7.92     | 34.21    | 5.44     | 134.66       | 9.97     | 8.50        | 8.23     | 12.93       | 37.89    |
| 2004r | 41.75  | 1.87     | 134.80       | 9.72     | 33.71    | 5.36     | 162.11       | 12.01    | 10.21       | 9.94     | 12.98       | 38.04    |
| 2005r | 46.88  | 2.10     | 188.48       | 13.59    | 47.59    | 7.57     | 214.92       | 15.92    | 12.88       | 12.54    | 14.36       | 42.09    |
| 2006p | 63.11  | 2.86     | 218.07       | 15.72    | 55.30    | 8.80     | 245.87       | 18.21    | 12.10       | 11.78    | 13.59       | 39.83    |

NOTE: See glossary on page 524 for explanation of abbreviations.  
p Preliminary.

r Revised.  
SOURCE: New York State Energy Research and Development Authority.

TABLE L-14

### Industrial Retail Energy Prices New York State — 1992-2006

| Date  | Coal   |          | Distillate   |          | Residual |          | Kerosene     |          |
|-------|--------|----------|--------------|----------|----------|----------|--------------|----------|
|       | \$/ton | \$/MMBtu | cents/gallon | \$/MMBtu | \$/bbl   | \$/MMBtu | cents/gallon | \$/MMBtu |
| 1992r | 42.71  | 1.74     | 76.44        | 5.51     | 18.17    | 2.89     | 65.94        | 4.88     |
| 1993r | 41.56  | 1.70     | 70.30        | 5.07     | 18.13    | 2.88     | 65.31        | 4.84     |
| 1994r | 41.50  | 1.70     | 70.51        | 5.08     | 19.39    | 3.08     | 69.47        | 5.15     |
| 1995r | 41.31  | 1.69     | 67.08        | 4.84     | 21.01    | 3.34     | 60.22        | 4.46     |
| 1996r | 40.19  | 1.64     | 81.54        | 5.88     | 25.38    | 4.04     | 77.17        | 5.72     |
| 1997r | 41.27  | 1.69     | 74.78        | 5.39     | 21.62    | 3.44     | 70.72        | 5.24     |
| 1998r | 36.75  | 1.45     | 57.93        | 4.18     | 14.98    | 2.38     | 54.18        | 4.01     |
| 1999r | 36.70  | 1.47     | 64.79        | 4.67     | 17.47    | 2.78     | 62.50        | 4.63     |
| 2000r | 40.60  | 1.63     | 105.25       | 7.59     | 28.92    | 4.60     | 111.49       | 8.26     |
| 2001r | 41.46  | 1.66     | 91.62        | 6.61     | 25.60    | 4.07     | 90.79        | 6.73     |
| 2002r | 50.17  | 1.92     | 88.50        | 6.38     | 25.90    | 4.12     | 81.43        | 6.03     |
| 2003r | 45.25  | 1.81     | 107.90       | 7.78     | 34.21    | 5.44     | 109.77       | 8.13     |
| 2004r | 54.30  | 1.96     | 127.39       | 9.19     | 33.71    | 5.36     | 137.92       | 10.22    |
| 2005r | 65.16  | 2.20     | 190.14       | 13.71    | 47.59    | 7.57     | 181.85       | 13.47    |
| 2006p | 78.19  | 3.01     | 220.00       | 15.86    | 55.30    | 8.80     | 208.03       | 15.41    |

| Year  | LPG <sup>1</sup> |          | Natural Gas |          | Electricity |          |
|-------|------------------|----------|-------------|----------|-------------|----------|
|       | cents/gallon     | \$/MMBtu | \$/Mcf      | \$/MMBtu | cents/kWh   | \$/MMBtu |
| 1992r | 85.24            | 9.88     | 4.94        | 4.79     | 6.50        | 19.06    |
| 1993r | 83.25            | 9.70     | 5.16        | 5.02     | 6.66        | 19.53    |
| 1994r | 74.76            | 8.64     | 5.22        | 5.08     | 6.77        | 19.86    |
| 1995r | 73.96            | 8.57     | 4.67        | 4.55     | 5.79        | 16.97    |
| 1996r | 78.18            | 9.09     | 5.04        | 4.91     | 5.62        | 16.48    |
| 1997r | 86.41            | 10.04    | 5.05        | 4.92     | 5.20        | 15.23    |
| 1998r | 80.40            | 9.34     | 4.03        | 3.90     | 4.95        | 14.49    |
| 1999r | 82.04            | 9.53     | 3.90        | 3.79     | 4.76        | 13.96    |
| 2000r | 110.83           | 12.90    | 6.10        | 5.95     | 5.37        | 15.75    |
| 2001r | 109.79           | 12.76    | 7.69        | 7.47     | 5.56        | 16.28    |
| 2002r | 103.96           | 12.08    | 5.80        | 5.63     | 5.18        | 15.17    |
| 2003r | 128.11           | 14.83    | 7.27        | 7.04     | 7.14        | 20.92    |
| 2004r | 144.82           | 16.81    | 8.13        | 7.92     | 7.04        | 20.63    |
| 2005r | 157.90           | 18.32    | 9.88        | 9.62     | 8.23        | 24.12    |
| 2006p | 196.59           | 22.81    | 10.71       | 10.43    | 8.62        | 25.26    |

NOTE: See glossary on page 524 for explanation of abbreviations.

p Preliminary.

r Revised.

1 Propane.

SOURCE: New York State Energy Research Development Authority.

**TABLE L-15**  
**Transportation Retail Energy Prices**  
**New York State — 1992-2006**

| Date  | Gasoline         |              | Distillate <sup>1</sup> |              | Jet Fuel <sup>2</sup> |              | Residual <sup>3</sup> |              | Electricity <sup>4</sup> |              |
|-------|------------------|--------------|-------------------------|--------------|-----------------------|--------------|-----------------------|--------------|--------------------------|--------------|
|       | cents/<br>gallon | \$/<br>MMBtu | cents/<br>gallon        | \$/<br>MMBtu | cents/<br>gallon      | \$/<br>MMBtu | \$/<br>bbl            | \$/<br>MMBtu | cents/<br>kWh            | \$/<br>MMBtu |
| 1992r | 116.09           | 9.28         | 123.34                  | 8.89         | 65.30                 | 4.84         | 14.64                 | 2.33         | 8.11                     | 23.77        |
| 1993r | 113.06           | 9.04         | 125.32                  | 9.04         | 60.30                 | 4.47         | 14.41                 | 2.29         | 8.53                     | 25.00        |
| 1994r | 114.10           | 9.16         | 128.35                  | 9.25         | 55.90                 | 4.14         | 15.06                 | 2.40         | 8.68                     | 25.44        |
| 1995r | 118.89           | 9.57         | 125.04                  | 9.02         | 54.60                 | 4.04         | 16.73                 | 2.66         | 8.46                     | 24.79        |
| 1996r | 123.37           | 9.93         | 134.12                  | 9.67         | 65.90                 | 4.88         | 19.84                 | 3.15         | 8.49                     | 24.90        |
| 1997r | 124.62           | 10.04        | 128.80                  | 9.29         | 61.10                 | 4.53         | 17.57                 | 2.79         | 8.52                     | 24.98        |
| 1998r | 106.25           | 8.56         | 113.75                  | 8.20         | 45.90                 | 3.40         | 12.19                 | 1.94         | 8.21                     | 24.07        |
| 1999r | 118.77           | 9.57         | 122.10                  | 8.80         | 57.10                 | 4.23         | 15.50                 | 2.47         | 8.14                     | 23.85        |
| 2000r | 159.60           | 12.87        | 165.25                  | 11.92        | 93.10                 | 6.90         | 25.79                 | 4.10         | 8.16                     | 23.90        |
| 2001r | 143.00           | 11.53        | 145.85                  | 10.52        | 78.20                 | 5.79         | 19.93                 | 3.17         | 8.25                     | 24.18        |
| 2002r | 134.25           | 10.83        | 136.55                  | 9.85         | 74.80                 | 5.54         | 21.84                 | 3.47         | 7.95                     | 23.29        |
| 2003r | 156.85           | 12.65        | 159.85                  | 11.53        | 91.30                 | 6.76         | 28.45                 | 4.53         | 9.38                     | 27.49        |
| 2004r | 188.17           | 15.16        | 187.35                  | 13.51        | 122.30                | 9.06         | 29.64                 | 4.71         | 7.92                     | 23.21        |
| 2005r | 224.00           | 18.03        | 242.15                  | 17.46        | 176.85                | 13.10        | 42.63                 | 6.78         | 11.39                    | 33.38        |
| 2006p | 273.48           | 22.01        | 280.83                  | 20.25        | 203.73                | 15.09        | 49.53                 | 7.88         | 11.46                    | 33.59        |

NOTE: See glossary on page 524 for explanation of abbreviations.

p Preliminary.

r Revised.

1 Diesel.

2 Kerosene-based.

3 Bunker fuel.

4 Consumed by railroads.

SOURCE: New York State Energy Research and Development Authority.

**TABLE L-16**  
**Sources and Disposition of Energy**  
**by the New York Power Authority**  
**New York State — 2007**

|   | Megawatt Hours<br>(thousands) |
|---|-------------------------------|
| Sources of Energy   |                               |
| All Purchases and Generation  | 43,575                        |
| Generation (excluding station use)  | 26,287                        |
| Steam   | 5,926                         |
| Hydro   | 19,524                        |
| Gas Turbines  | 837                           |
| Purchases from Utilities, Utility Affiliates, and Power Marketers   | 17,288                        |
| Losses and Unaccounted for  | 43,032                        |
| Disposition of Energy   |                               |
| All Sales   | 43,032                        |
| Direct Sales to Commercial and Industrial Customers <sup>1</sup>  | 5,462                         |
| Sales to Municipal Electric Systems, Rural Electric Cooperatives, and Other Public Customers <sup>2</sup> | 17,436                        |
| Sales to Utilities and the New York Independent System Operator for Resale <sup>3</sup>                   | 20,134                        |

1 Includes sales to 29 companies, primarily industrial.

2 Includes sales to 47 municipal systems, 4 rural cooperatives, and more than 100 public agencies in New York State and to 7 neighboring states.

3 Includes sales to the 6 investor-owned utilities in New York State, the Long Island Power Authority, and the New York Independent System Operator (ISO). Portions were designated for resale to residential and farm customers or to business and not-for-profit customers in the state.

SOURCE: Power Authority of the State of New York.

**TABLE L-17**  
**Generation by Major Privately Owned Electric Utilities**  
**by Type of Prime Mover Driving the Generator**  
**New York State — 1972-2007**  
(millions of kilowatt-hours)

| Year    | Total   | Hydro | Steam       |         | Other |
|---------|---------|-------|-------------|---------|-------|
|         |         |       | Fossil Fuel | Nuclear |       |
| 1972    | 81,660  | 4,450 | 64,188      | 6,726   | 6,296 |
| 1973    | 83,231  | 4,276 | 67,048      | 7,138   | 4,769 |
| 1974    | 81,100  | 4,492 | 63,950      | 9,909   | 2,749 |
| 1975    | 82,669  | 4,251 | 65,891      | 10,939  | 1,588 |
| 1976    | 79,604  | 4,614 | 65,107      | 8,406   | 1,477 |
| 1977    | 82,692  | 4,101 | 66,528      | 11,160  | 903   |
| 1978    | 82,498  | 3,634 | 66,471      | 12,031  | 362   |
| 1979    | 77,807  | 3,930 | 62,668      | 10,740  | 469   |
| 1980    | 80,106  | 3,292 | 64,404      | 11,864  | 546   |
| 1981    | 79,498  | 3,831 | 65,442      | 9,628   | 597   |
| 1982    | 75,263  | 3,734 | 63,555      | 7,960   | 14    |
| 1983    | 79,424  | 3,769 | 63,917      | 11,710  | 28    |
| 1984    | 78,655  | 4,207 | 64,131      | 10,249  | 68    |
| 1985    | 82,408  | 3,649 | 63,563      | 15,196  | —     |
| 1986    | 77,764  | 4,642 | 62,283      | 10,544  | 295   |
| 1987    | 86,926  | 3,847 | 68,936      | 13,822  | 321   |
| 1988    | 95,421  | 3,537 | 78,334      | 12,985  | 565   |
| 1989    | 101,961 | 4,057 | 84,711      | 11,796  | 1,397 |
| 1990    | 99,790  | 4,611 | 81,106      | 14,036  | 38    |
| 1991    | 97,410  | 3,797 | 75,281      | 17,745  | 587   |
| 1992    | 88,987  | 3,626 | 65,709      | 19,389  | 263   |
| 1993    | 79,897  | 3,300 | 55,206      | 20,940  | 451   |
| 1994    | 80,440  | 3,950 | 51,500      | 24,400  | 590   |
| 1995    | 75,870  | 2,980 | 52,850      | 20,030  | 10    |
| 1996    | 75,959  | 4,694 | 46,302      | 24,053  | 910   |
| 1997    | 75,973  | 4,065 | 53,065      | 18,578  | 265   |
| 1998a   | 60,994  | 3,786 | 39,170      | 17,594  | 444   |
| 1999a   | 45,443  | 1,948 | 22,953      | 20,208  | 334   |
| 2000a   | 24,908  | 703   | 8,181       | 15,886  | 138   |
| 2001a   | 23,674  | 468   | 3,560       | 19,371  | 275   |
| 2002a,r | 7,368   | 504   | 2,766       | 3,839   | 259   |
| 2003a,r | 8,542   | 711   | 2,621       | 1,917   | 3,293 |
| 2004a,r | 9,753   | 719   | 2,983       | 1,917   | 4,134 |
| 2005a   | 13,030  | 649   | 3,239       | —       | 9,142 |
| 2006a   | 13,711  | 779   | 3,879       | —       | 9,053 |
| 2007a   | 14,523  | 525   | 4,107       | —       | 9,891 |

— Represents zero.

r Revised.

a Excludes sales by Long Island Power Authority (formerly Long Island Lighting Co.).

SOURCE: New York State Department of Public Service, Office of Accounting and Finance.

TABLE L-18

**Energy Sales to Ultimate Customers of Major Privately Owned Electric Utilities  
by Type of Customer  
New York State — 1972-2007  
(millions of kilowatt-hours)**

| Year  | All<br>Sales <sup>1</sup> | Residential | Commercial<br>and<br>Industrial | Other <sup>2</sup> |
|-------|---------------------------|-------------|---------------------------------|--------------------|
| 1972  | 87,793                    | 26,804      | 52,152                          | 8,837              |
| 1973  | 93,101                    | 28,497      | 55,344                          | 9,260              |
| 1974  | 89,207                    | 27,234      | 52,902                          | 9,071              |
| 1975  | 89,353                    | 28,012      | 52,179                          | 9,162              |
| 1976  | 91,211                    | 28,733      | 53,932                          | 8,546              |
| 1977  | 88,902                    | 29,044      | 55,254                          | 4,604              |
| 1978  | 89,228                    | 29,201      | 56,715                          | 3,312              |
| 1979  | 90,398                    | 29,451      | 57,698                          | 3,249              |
| 1980  | 90,604                    | 29,815      | 57,469                          | 3,320              |
| 1981  | 91,012                    | 29,731      | 57,958                          | 3,323              |
| 1982  | 89,324                    | 29,660      | 56,536                          | 3,128              |
| 1983  | 92,498                    | 30,792      | 58,500                          | 3,206              |
| 1984  | 95,525                    | 31,524      | 60,790                          | 3,211              |
| 1985  | 96,271                    | 31,424      | 61,562                          | 3,285              |
| 1986  | 99,003                    | 32,389      | 63,329                          | 3,285              |
| 1987  | 102,823                   | 33,869      | 65,569                          | 3,385              |
| 1988  | 109,096                   | 35,946      | 69,639                          | 3,511              |
| 1989  | 111,441                   | 36,304      | 71,585                          | 3,552              |
| 1990  | 112,441                   | 36,997      | 71,821                          | 3,623              |
| 1991  | 112,426                   | 37,504      | 71,255                          | 3,667              |
| 1992  | 111,478                   | 37,050      | 70,748                          | 3,680              |
| 1993  | 113,520                   | 38,200      | 71,125                          | 4,195              |
| 1994  | 113,970                   | 38,353      | 71,947                          | 3,670              |
| 1995  | 113,389                   | 38,190      | 71,537                          | 3,662              |
| 1996  | 114,271                   | 38,488      | 72,139                          | 3,644              |
| 1997  | 114,681                   | 38,289      | 72,747                          | 3,645              |
| 1998a | 96,838                    | 30,996      | 62,585                          | 3,257              |
| 1999a | 93,947                    | 32,659      | 58,238                          | 3,050              |
| 2000a | 88,732                    | 31,864      | 54,078                          | 2,790              |
| 2001a | 88,472                    | 32,345      | 53,739                          | 2,388              |
| 2002a | 86,921                    | 33,637      | 50,979                          | 2,305              |
| 2003a | 84,908                    | 34,099      | 48,125                          | 2,684              |
| 2004a | 99,072                    | 35,293      | 60,260                          | 3,519              |
| 2005a | 100,920                   | 37,885      | 59,433                          | 3,602              |
| 2006a | 97,315                    | 36,186      | 57,706                          | 3,423              |
| 2007a | 99,677                    | 36,946      | 59,184                          | 3,547              |

a Excludes sales by Long Island Power Authority (formerly Long Island Lighting Co.).

SOURCE: New York State Department of Public Service, Office of Accounting and Finance.

1 Excluding sales for resale.

2 Other now includes Street and Highway Lighting, Other Public Authorities, Railroads and Railways, and Interdepartmental.

**TABLE L-19**  
**Energy Sales to Final Customers of Major Privately Owned Gas Utilities**  
**by Type of Customer**  
**New York State — 1972-2007**  
(millions of therms)

| Year    | All Sales <sup>1</sup> | Residential | Commercial and Industrial | Other <sup>2</sup> |
|---------|------------------------|-------------|---------------------------|--------------------|
| 1972    | 6,673                  | 3,852       | 2,646                     | 175                |
| 1973    | 6,267                  | 3,535       | 2,543                     | 189                |
| 1974    | 6,598                  | 3,663       | 2,768                     | 167                |
| 1975    | 6,380                  | 3,646       | 2,596                     | 138                |
| 1976    | 6,878                  | 3,942       | 2,780                     | 156                |
| 1977    | 6,311                  | 3,689       | 2,477                     | 145                |
| 1978    | 6,586                  | 3,756       | 2,689                     | 141                |
| 1979    | 6,632                  | 3,608       | 2,848                     | 176                |
| 1980    | 6,838                  | 3,635       | 2,925                     | 278                |
| 1981    | 7,143                  | 3,665       | 3,150                     | 328                |
| 1982    | 7,081                  | 3,658       | 3,060                     | 363                |
| 1983r   | 6,745                  | 3,515       | 2,804                     | 426                |
| 1984    | 7,104                  | 3,685       | 2,930                     | 489                |
| 1985r   | 6,782                  | 3,534       | 2,855                     | 393                |
| 1986r   | 6,314                  | 3,667       | 2,441                     | 206                |
| 1987r   | 6,066                  | 3,634       | 2,135                     | 297                |
| 1988r   | 6,182                  | 3,879       | 2,060                     | 243                |
| 1989r   | 6,125                  | 3,939       | 1,960                     | 226                |
| 1990r   | 5,842                  | 3,635       | 1,900                     | 307                |
| 1991r   | 5,688                  | 3,588       | 1,797                     | 303                |
| 1992r   | 6,387                  | 4,079       | 1,960                     | 348                |
| 1993r   | 6,443                  | 4,101       | 1,968                     | 374                |
| 1994r   | 6,737                  | 4,117       | 2,285                     | 335                |
| 1995r   | 6,766                  | 4,033       | 2,264                     | 469                |
| 1996r   | 6,874                  | 4,281       | 2,250                     | 343                |
| 1997r   | 6,639                  | 4,090       | 2,126                     | 423                |
| 1998a   | 4,713                  | 3,100       | 1,338                     | 275                |
| 1999a,r | 5,468                  | 3,666       | 1,561                     | 241                |
| 2000a,r | 5,886                  | 3,871       | 1,797                     | 218                |
| 2001a,r | 5,321                  | 3,494       | 1,593                     | 234                |
| 2002a,r | 5,432                  | 3,487       | 1,702                     | 243                |
| 2003a,r | 5,836                  | 3,844       | 1,716                     | 276                |
| 2004a,r | 5,916                  | 3,769       | 1,847                     | 300                |
| 2005a,r | 5,758                  | 3,707       | 1,706                     | 345                |
| 2006a,r | 5,089                  | 3,218       | 1,550                     | 321                |
| 2007a   | 5,533                  | 3,580       | 1,648                     | 305                |

r Revised.

a Does not include former Long Island Lighting Company gas operations (now KeySpan East).

1 Excluding sales for resale.

2 Other now includes Interdepartmental, which was listed separately in earlier years. All figures shown for Other below are revised from earlier editions.

SOURCE: New York State Department of Public Service, Office of Accounting and Finance.

TABLE L-20

**Residential Customers of Electric and Gas Utilities  
Usage and Bill per Customer and Revenue per Unit Consumed  
New York State — Selected Years 1960-2007**

| Year  | Average Usage per Customer (kWh) | Electricity                      |                               |                 |                               |
|-------|----------------------------------|----------------------------------|-------------------------------|-----------------|-------------------------------|
|       |                                  | Average Annual Bill per Customer |                               | Revenue per kWh |                               |
|       |                                  | Current Dollars                  | Constant Dollars <sup>1</sup> | Current Dollars | Constant Dollars <sup>1</sup> |
| 1960  | 2,598                            | \$ 83.84                         | \$ 355.91                     | \$ 0.0323       | \$ 0.1397                     |
| 1965  | 3,293                            | 99.94                            | 403.37                        | 0.0303          | 0.1225                        |
| 1970  | 4,662                            | 134.43                           | 440.56                        | 0.0288          | 0.0945                        |
| 1975  | 5,120                            | 266.15                           | 846.04                        | 0.0520          | 0.1652                        |
| 1976  | 5,269                            | 286.43                           | 861.70                        | 0.0544          | 0.1635                        |
| 1977  | 5,315                            | 316.67                           | 895.11                        | 0.0596          | 0.1684                        |
| 1978  | 5,329                            | 328.02                           | 865.43                        | 0.0616          | 0.1624                        |
| 1979  | 5,336                            | 361.51                           | 880.53                        | 0.0677          | 0.1650                        |
| 1980  | 5,359                            | 414.27                           | 923.92                        | 0.0773          | 0.1724                        |
| 1981  | 5,312                            | 506.70                           | 1,033.75                      | 0.0954          | 0.1946                        |
| 1982  | 5,260                            | 529.67                           | 1,017.17                      | 0.1007          | 0.1934                        |
| 1983  | 5,416                            | 576.89                           | 1,065.79                      | 0.1065          | 0.1968                        |
| 1984  | 5,491                            | 606.72                           | 1,080.65                      | 0.1105          | 0.1968                        |
| 1985  | 5,417                            | 604.00                           | 1,042.85                      | 0.1115          | 0.1925                        |
| 1986  | 5,523                            | 598.53                           | 1,011.08                      | 0.1084          | 0.1831                        |
| 1987  | 5,709                            | 616.16                           | 1,010.64                      | 0.1079          | 0.1770                        |
| 1988  | 5,989                            | 642.87                           | 1,019.74                      | 0.1073          | 0.1703                        |
| 1989  | 5,985                            | 671.72                           | 1,026.41                      | 0.1122          | 0.1715                        |
| 1990  | 6,046                            | 711.39                           | 1,046.12                      | 0.1177          | 0.1730                        |
| 1991  | 6,100                            | 751.05                           | 1,065.83                      | 0.1231          | 0.1747                        |
| 1992  | 5,969                            | 764.41                           | 1,058.99                      | 0.1281          | 0.1774                        |
| 1993  | 6,119                            | 830.45                           | 1,123.48                      | 0.1357          | 0.1836                        |
| 1994  | 6,107                            | 853.83                           | 1,131.61                      | 0.1398          | 0.1853                        |
| 1995  | 6,046                            | 865.94                           | 1,123.13                      | 0.1432          | 0.1858                        |
| 1996  | 6,069                            | 879.05                           | 1,118.50                      | 0.1448          | 0.1843                        |
| 1997  | 6,019                            | 876.83                           | 1,094.37                      | 0.1457          | 0.1818                        |
| 1998  | 5,683                            | 794.38                           | 979.19                        | 0.1398          | 0.1723                        |
| 1999a | 5,934                            | 816.81                           | 991.97                        | 0.1376          | 0.1672                        |
| 2000a | 5,843                            | 855.18                           | 1,014.23                      | 0.1464          | 0.1736                        |
| 2001a | 5,911                            | 861.06                           | 999.23                        | 0.1457          | 0.1690                        |
| 2002a | 6,148                            | 847.28                           | 962.31                        | 0.1378          | 0.1565                        |
| 2003a | 6,206                            | 914.27                           | 1,013.67                      | 0.1473          | 0.1633                        |
| 2004a | 6,373                            | 916.60                           | 993.60                        | 0.1438          | 0.1559                        |
| 2005a | 6,813                            | 1,045.49                         | 1,110.90                      | 0.1535          | 0.1631                        |
| 2006a | 6,480                            | 1,028.27                         | 1,070.99                      | 0.1587          | 0.1653                        |
| 2007a | 6,625                            | 1,068.83                         | 1,068.83                      | 0.1613          | 0.1613                        |

(Continued on the following page)

TABLE L-20 (continued)

**Residential Customers of Electric and Gas Utilities**  
**Usage and Bill per Customer and Revenue per Unit Consumed**  
**New York State — Selected Years 1960-2007**

| Year  | Average Usage per Customer (Mcf) | Gas                              |                               |                 |                               |
|-------|----------------------------------|----------------------------------|-------------------------------|-----------------|-------------------------------|
|       |                                  | Average Annual Bill per Customer |                               | Revenue per Mcf |                               |
|       |                                  | Current Dollars                  | Constant Dollars <sup>1</sup> | Current Dollars | Constant Dollars <sup>1</sup> |
| 1960  | 65.1                             | \$ 90.90                         | \$ 358.88                     | \$ 1.40         | \$ 6.06                       |
| 1965  | 80.0                             | 105.86                           | 427.27                        | 1.32            | 5.34                          |
| 1970  | 92.0                             | 125.54                           | 411.43                        | 1.36            | 4.47                          |
| 1975  | 89.8                             | 221.02                           | 702.58                        | 2.46            | 7.82                          |
| 1976  | 98.9                             | 275.78                           | 829.66                        | 2.79            | 8.39                          |
| 1977  | 94.9                             | 311.91                           | 881.65                        | 3.29            | 9.29                          |
| 1978  | 97.2                             | 342.82                           | 904.47                        | 3.53            | 9.31                          |
| 1979  | 93.4                             | 370.38                           | 902.13                        | 3.97            | 9.66                          |
| 1980  | 104.2                            | 516.49                           | 1,151.89                      | 4.96            | 11.05                         |
| 1981  | 94.3                             | 509.26                           | 1,038.98                      | 5.40            | 11.02                         |
| 1982  | 93.9                             | 604.68                           | 1,161.22                      | 6.44            | 12.37                         |
| 1983  | 87.7                             | 680.52                           | 1,257.24                      | 7.76            | 14.34                         |
| 1984  | 91.5                             | 695.99                           | 1,239.66                      | 7.61            | 13.55                         |
| 1985  | 87.3                             | 667.48                           | 1,152.46                      | 7.65            | 13.20                         |
| 1986  | 90.2                             | 665.90                           | 1,124.89                      | 7.38            | 12.47                         |
| 1987  | 88.9                             | 588.16                           | 964.71                        | 6.62            | 10.85                         |
| 1988  | 94.2                             | 614.61                           | 974.91                        | 6.52            | 10.35                         |
| 1989  | 99.5                             | 700.23                           | 1,069.97                      | 7.04            | 10.75                         |
| 1990  | 87.0                             | 632.18                           | 929.64                        | 7.27            | 10.69                         |
| 1991  | 85.5                             | 634.16                           | 899.95                        | 7.42            | 10.53                         |
| 1992  | 96.2                             | 716.82                           | 993.06                        | 7.45            | 10.32                         |
| 1993  | 96.0                             | 782.53                           | 1,058.65                      | 8.15            | 11.03                         |
| 1994  | 95.8                             | 828.05                           | 1,097.44                      | 8.64            | 11.46                         |
| 1995  | 93.3                             | 771.00                           | 999.99                        | 8.26            | 10.72                         |
| 1996  | 98.6                             | 881.55                           | 1,121.68                      | 8.94            | 11.38                         |
| 1997  | 93.8                             | 872.68                           | 1,089.19                      | 9.30            | 11.61                         |
| 1998  | 79.0                             | 744.10                           | 917.21                        | 9.42            | 11.61                         |
| 1999a | 83.9                             | 766.44                           | 930.80                        | 9.14            | 11.09                         |
| 2000a | 89.3                             | 894.21                           | 1,060.52                      | 10.01           | 11.87                         |
| 2001a | 80.0                             | 947.51                           | 1,099.55                      | 11.84           | 13.74                         |
| 2002a | 81.6                             | 795.75                           | 903.78                        | 9.76            | 11.08                         |
| 2003a | 85.6                             | 893.24                           | 990.35                        | 10.44           | 11.57                         |
| 2004a | 91.9                             | 1,117.40                         | 1,211.27                      | 12.15           | 13.17                         |
| 2005a | 87.5                             | 1,292.84                         | 1,373.72                      | 14.78           | 15.70                         |
| 2006a | 75.9                             | 1,196.96                         | 1,246.69                      | 15.77           | 16.43                         |
| 2007a | 85.2                             | 1,316.49                         | 1,316.49                      | 15.45           | 15.45                         |

NOTE: See Glossary on page 524 for explanation of abbreviations.

1 Base year 1996 = 100.

a Does not include former Long Island Lighting Company gas operations (now KeySpan East).

SOURCE: New York State Department of Public Service, Office of Accounting and Finance.

TABLE L-21

**Electric Service Companies<sup>1</sup>**  
**Average Annual Bill Data**  
**New York State — 2007**

| Company                                 | Average Number of Customers | Sales Revenues (thousands) | Kilowatt-Hours Sold (millions) | Average Annual Bill per Customer | Average Usage per Customer (000 kWh) | Average Revenue per kWh Sold (cents) |
|---|-----------------------------|----------------------------|--------------------------------|----------------------------------|--------------------------------------|--------------------------------------|
| --- Total <sup>2</sup> ---              |                             |                            |                                |                                  |                                      |                                      |
| Central Hudson                          | 293,205                     | \$ 569,853                 | 4,904                          | \$ 1,944                         | 17                                   | 10.91¢                               |
| Consolidated Edison                     | 3,236,037                   | 6,545,046                  | 46,846                         | 2,023                            | 14                                   | 13.97                                |
| New York State E&G                      | 871,638                     | 1,501,975                  | 16,831                         | 1,723                            | 19                                   | 8.92                                 |
| Niagara Mohawk                          | 1,434,408                   | 2,660,564                  | 21,454                         | 1,855                            | 15                                   | 12.40                                |
| Orange & Rockland                       | 221,454                     | 477,305                    | 4,470                          | 2,155                            | 20                                   | 10.68                                |
| Rochester G&E                           | 359,643                     | 706,328                    | 11,760                         | 1,964                            | 33                                   | 6.01                                 |
| Composite                               | 6,416,385                   | \$ 12,461,071              | 106,265                        | \$ 1,942                         | 17                                   | 11.73¢                               |
| --- Residential ---                     |                             |                            |                                |                                  |                                      |                                      |
| Central Hudson                          | 248,621                     | \$ 292,307                 | 2,087                          | \$ 1,176                         | 8                                    | 14.00¢                               |
| Consolidated Edison                     | 2,748,259                   | 2,825,783                  | 14,108                         | 1,028                            | 5                                    | 20.03                                |
| New York State E&G                      | 757,055                     | 794,114                    | 6,299                          | 1,049                            | 8                                    | 12.61                                |
| National Grid                           | 1,311,422                   | 1,577,338                  | 10,140                         | 1,203                            | 8                                    | 15.56                                |
| Orange & Rockland                       | 190,952                     | 221,012                    | 1,646                          | 1,157                            | 9                                    | 13.43                                |
| Rochester G&E                           | 320,607                     | 250,213                    | 2,666                          | 780                              | 8                                    | 9.39                                 |
| Composite                               | 5,576,916                   | \$ 5,960,767               | 36,946                         | \$ 1,069                         | 7                                    | 16.13¢                               |
| --- Commercial ---                      |                             |                            |                                |                                  |                                      |                                      |
| Central Hudson                          | 39,793                      | \$ 146,545                 | 1,285                          | \$ 3,683                         | 32                                   | 11.41¢                               |
| Consolidated Edison                     | 482,520                     | 3,549,452                  | 31,351                         | 7,356                            | 65                                   | 11.32                                |
| New York State E&G                      | 98,078                      | 314,584                    | 4,051                          | 3,207                            | 41                                   | 7.77                                 |
| National Grid                           | 117,964                     | 697,849                    | 4,647                          | 5,916                            | 39                                   | 15.02                                |
| Orange & Rockland                       | 29,808                      | 175,168                    | 1,852                          | 5,877                            | 62                                   | 9.46                                 |
| Rochester G&E                           | 34,914                      | 123,123                    | 2,707                          | 3,526                            | 78                                   | 4.55                                 |
| Composite                               | 803,077                     | \$ 5,006,721               | 45,893                         | \$ 6,234                         | 57                                   | 10.91¢                               |
| --- Industrial <sup>3</sup> ---         |                             |                            |                                |                                  |                                      |                                      |
| Central Hudson                          | 1,180                       | \$ 82,617                  | 1,010                          | \$ 70,014                        | 856                                  | 8.18¢                                |
| Consolidated Edison                     | 446                         | 72,301                     | 704                            | 162,110                          | 1,897                                | 10.27                                |
| New York State E&G                      | 2,585                       | 152,118                    | 3,381                          | 58,846                           | 1,308                                | 4.50                                 |
| National Grid                           | 791                         | 291,638                    | 6,090                          | 368,695                          | 7,699                                | 4.79                                 |
| Orange & Rockland (includes Power Pick) | 108                         | 36,032                     | 512                            | 333,630                          | 5,931                                | 7.04                                 |
| Rochester G&E                           | 1,068                       | 59,380                     | 1,594                          | 55,599                           | 1,493                                | 3.73                                 |
| Composite                               | 6,178                       | \$ 694,086                 | 13,291                         | \$ 112,348                       | 2,151                                | 5.22¢                                |
| --- Sales for Resale ---                |                             |                            |                                |                                  |                                      |                                      |
| Central Hudson                          | 4                           | \$ 6,293                   | 154                            |                                  |                                      | 4.09¢                                |
| Consolidated Edison                     | 1                           | 52,630                     | —                              |                                  |                                      | —                                    |
| New York State E&G                      | 7                           | 119,588                    | 1,428                          |                                  |                                      | 8.37                                 |
| National Grid                           | 150                         | 31,064                     | 468                            |                                  |                                      | 6.64                                 |
| Orange & Rockland                       | 29,547                      | 336                        | 8.79                           |                                  |                                      |                                      |
| Rochester G&E                           | 49                          | 244,260                    | 4,202                          |                                  |                                      | 5.81                                 |
| Composite                               | 211                         | \$ 483,382                 | 6,588                          |                                  |                                      | 7.34¢                                |
| --- All Other Sales of Electricity ---  |                             |                            |                                |                                  |                                      |                                      |
| Central Hudson                          | 3,607                       | \$ 42,073                  | 368                            |                                  |                                      | 11.43¢                               |
| Consolidated Edison                     | 4,811                       | 44,880                     | 683                            |                                  |                                      | 6.57                                 |
| New York State E&G                      | 13,913                      | 121,571                    | 1,672                          |                                  |                                      | 7.27                                 |
| National Grid                           | 4,081                       | 62,675                     | 109                            |                                  |                                      | 57.50                                |
| Orange & Rockland                       | 586                         | 15,546                     | 124                            |                                  |                                      | 12.54                                |
| Rochester G&E                           | 3,005                       | 29,352                     | 591                            |                                  |                                      | 4.97                                 |
| Composite                               | 30,003                      | \$ 316,907                 | 3,547                          |                                  |                                      | 8.93¢                                |

— Represents zero.

NA Not available.

1 Excludes sales by Long Island Power Authority (formerly Long Island Lighting Company).

2 Excludes Other Operating Revenue.

3 Excludes Expansion and Replacement sales made by the New York Power Authority.

SOURCE: New York State Department of Public Service.

**TABLE L-22**  
**Gas Service Companies**  
**Average Annual Bill Data**  
**New York State — 2007**

| Company                           | Average Number of Customers | Sales Revenues (thousands) | Mcf Sold (thousands) | Average Annual Bill Per Customer | Average Usage per Customer (Mcf) | Average Revenue per Mcf Sold |
|-----------------------------------|-----------------------------|----------------------------|----------------------|----------------------------------|----------------------------------|------------------------------|
| --- Total <sup>1</sup> ---        |                             |                            |                      |                                  |                                  |                              |
| Brooklyn Union Gas                | 1,090,003                   | \$ 2,228,206               | 158,815              | \$ 2,044                         | 146                              | \$ 14.03                     |
| Central Hudson                    | 66,601                      | 153,987                    | 11,549               | 2,312                            | 173                              | 13.33                        |
| Consolidated Edison               | 1,059,875                   | 1,662,685                  | 137,115              | 1,569                            | 129                              | 12.13                        |
| Corning Natural Gas               | 11,244                      | 19,216                     | 1,510                | 1,709                            | 134                              | 12.73                        |
| Key Span Gas East                 | 504,637                     | 1,336,759                  | 98,862               | 2,649                            | 196                              | 13.52                        |
| National Fuel Gas Dist. (NY & PA) | 638,378                     | 1,035,304                  | 74,451               | 1,622                            | 117                              | 13.91                        |
| New York State E&G                | 235,941                     | 431,729                    | 32,590               | 1,830                            | 138                              | 13.25                        |
| National Grid                     | 482,623                     | 719,456                    | 56,722               | 1,491                            | 118                              | 12.68                        |
| Orange & Rockland                 | 77,532                      | 215,878                    | 14,054               | 2,784                            | 181                              | 15.36                        |
| Rochester G&E                     | 253,021                     | 382,579                    | 27,772               | 1,512                            | 110                              | 13.78                        |
| St. Lawrence                      | 15,279                      | 38,034                     | 3,001                | 2,489                            | 196                              | 12.67                        |
| Valley Energy <sup>2</sup>        | 1,560                       | 2,464                      | 257                  | 1,579                            | 165                              | 9.59                         |
| Composite                         | 4,436,694                   | \$ 8,226,297               | 616,698              | \$ 1,854                         | 139                              | \$ 13.34                     |
| --- Residential ---               |                             |                            |                      |                                  |                                  |                              |
| Brooklyn Union Gas                | 1,050,878                   | \$ 1,440,623               | 87,565               | \$ 1,371                         | 83                               | \$ 16.45                     |
| Central Hudson                    | 57,555                      | 76,045                     | 4,653                | 1,321                            | 81                               | 16.34                        |
| Consolidated Edison               | 937,222                     | 915,981                    | 53,345               | 977                              | 57                               | 17.17                        |
| Corning Natural Gas               | 10,411                      | 13,649                     | 994                  | 1,311                            | 95                               | 13.73                        |
| Key Span Gas East                 | 456,779                     | 728,848                    | 44,221               | 1,596                            | 97                               | 16.48                        |
| National Fuel Gas Dist. (NY & PA) | 601,616                     | 870,058                    | 60,685               | 1,446                            | 101                              | 14.34                        |
| New York State E&G                | 212,435                     | 302,003                    | 21,609               | 1,422                            | 102                              | 13.98                        |
| National Grid                     | 451,091                     | 559,869                    | 43,435               | 1,241                            | 96                               | 12.89                        |
| Orange & Rockland                 | 71,179                      | 150,246                    | 8,371                | 2,111                            | 118                              | 17.95                        |
| Rochester G&E                     | 236,862                     | 318,576                    | 22,591               | 1,345                            | 95                               | 14.10                        |
| St. Lawrence                      | 13,707                      | 21,766                     | 1,632                | 1,588                            | 119                              | 13.34                        |
| Valley Energy <sup>2</sup>        | 1,388                       | 1,420                      | 132                  | 1,023                            | 95                               | 10.76                        |
| Composite                         | 4,101,123                   | \$ 4,952,531               | 349,233              | \$ 1,197                         | 85                               | \$ 15.77                     |
| --- Commercial <sup>3</sup> ---   |                             |                            |                      |                                  |                                  |                              |
| Brooklyn Union Gas                | 32,901                      | \$ 235,051                 | 17,214               | \$ 7,144                         | 523                              | \$ 13.65                     |
| Central Hudson                    | 8,087                       | 41,547                     | 3,096                | 5,138                            | 383                              | 13.42                        |
| Consolidated Edison               | 119,498                     | 585,592                    | 62,001               | 4,900                            | 519                              | 9.44                         |
| Corning Natural Gas               | 768                         | 2,422                      | 190                  | 3,154                            | 247                              | 12.75                        |
| Key Span Gas East                 | 43,241                      | 356,262                    | 25,545               | 8,239                            | 591                              | 13.95                        |
| National Fuel Gas Dist. (NY & PA) | 36,338                      | 139,261                    | 10,721               | 3,832                            | 295                              | 12.99                        |
| New York State E&G                | 21,745                      | 81,394                     | 6,196                | 3,743                            | 285                              | 13.14                        |
| National Grid                     | 31,392                      | 156,048                    | 12,950               | 4,971                            | 413                              | 12.05                        |
| Orange & Rockland                 | 6,316                       | 32,296                     | 1,973                | 5,113                            | 312                              | 16.37                        |
| Rochester G&E                     | 15,055                      | 51,406                     | 4,103                | 3,415                            | 273                              | 12.53                        |
| St. Lawrence                      | 1,565                       | 11,372                     | 946                  | 7,266                            | 604                              | 12.02                        |
| Valley Energy <sup>2</sup>        | 172                         | 1,044                      | 125                  | 6,070                            | 727                              | 8.35                         |
| Composite                         | 317,078                     | \$ 1,693,695               | 145,060              | \$ 5,342                         | 457                              | \$ 11.68                     |
| --- Industrial <sup>3</sup> ---   |                             |                            |                      |                                  |                                  |                              |
| Brooklyn Union Gas                | 3,658                       | \$ 45,093                  | 3,412                | \$ 12,237                        | 933                              | \$ 13.22                     |
| Central Hudson                    | 257                         | 3,742                      | 300                  | 14,560                           | 1,167                            | 12.47                        |
| Consolidated Edison               | 48                          | 6,362                      | 2,920                | 132,542                          | 60,833                           | 2.18                         |
| Corning Natural Gas               | 7                           | 77                         | 20                   | 11,000                           | 2,857                            | 3.85                         |
| Key Span Gas East                 | 4,593                       | 37,833                     | 2,713                | 8,237                            | 591                              | 13.95                        |
| National Fuel Gas Dist. (NY & PA) | 424                         | 8,021                      | 659                  | 18,917                           | 1,554                            | 12.17                        |
| New York State E&G                | 383                         | 19,062                     | 1,728                | 49,770                           | 4,512                            | 11.03                        |
| National Grid                     | 140                         | 3,539                      | 337                  | 25,279                           | 2,407                            | 10.50                        |
| Orange & Rockland                 | 36                          | 23,957                     | 2,564                | 665,472                          | 71,222                           | 9.34                         |
| Rochester G&E                     | 446                         | 6,950                      | 598                  | 15,583                           | 1,341                            | 11.62                        |
| St. Lawrence                      | 7                           | 4,896                      | 423                  | 699,429                          | 60,429                           | 11.57                        |
| Composite                         | 9,999                       | \$ 159,532                 | 15,674               | \$ 15,955                        | 1,568                            | \$ 10.18                     |
| --- Sales for Resale ---          |                             |                            |                      |                                  |                                  |                              |
| Brooklyn Union Gas                | —                           | \$ 377,410                 | 40,511               |                                  |                                  | \$ 9.32                      |
| Central Hudson                    | —                           | 18,219                     | 2,325                |                                  |                                  | 7.84                         |
| Consolidated Edison               | 1                           | 17,258                     | 2,253                |                                  |                                  | 7.66                         |
| Corning Natural Gas               | 1                           | 2,804                      | 290                  |                                  |                                  | 9.67                         |
| Key Span Gas East                 | 24                          | 213,816                    | 26,383               |                                  |                                  | 8.10                         |
| National Fuel Gas Dist. (NY & PA) | —                           | 17,964                     | 2,386                |                                  |                                  | 7.53                         |
| New York State E&G                | 7                           | 13,635                     | 1,701                |                                  |                                  | 8.02                         |
| Orange & Rockland                 | 1                           | 9,379                      | 1,146                |                                  |                                  | 8.18                         |
| Composite                         | 34                          | \$ 670,485                 | 76,995               |                                  |                                  | \$ 8.71                      |
| --- All Other Sales ---           |                             |                            |                      |                                  |                                  |                              |
| Brooklyn Union Gas                | 2,566                       | \$ 130,029                 | 10,113               |                                  |                                  | \$ 12.86                     |
| Central Hudson                    | 702                         | 14,434                     | 1,175                |                                  |                                  | 12.28                        |
| Consolidated Edison               | 3,106                       | 137,492                    | 16,596               |                                  |                                  | 8.28                         |
| Corning Natural Gas               | 57                          | 264                        | 16                   |                                  |                                  | 16.50                        |
| New York State E&G                | 1,371                       | 15,635                     | 1,356                |                                  |                                  | 11.53                        |
| Rochester G&E                     | 658                         | 5,647                      | 480                  |                                  |                                  | 11.76                        |
| Composite                         | 8,460                       | \$ 303,501                 | 29,736               |                                  |                                  | \$ 10.21                     |

NOTE: See Glossary on page 524 for explanation of abbreviations.

— Represents zero.

1 Excludes Other Operating Revenues (including Transportation).

2 Valley Energy purchased the Waverly Gas operations of NUI Utilities, Inc. in 2001.

3 Excludes transportation and off-system sales that were reported as commercial or industrial sales of gas.

SOURCE: New York State Department of Public Service, Office of Accounting and Finance.

TABLE L-23

**New York Independent System Operator Electric Energy Load and Capacity Schedule  
2007-16  
(Kilowatts)**

| New York Control Area (NYCA)                     | Winter Capability Period |                   |                   |                   |                   |                   |                   |                   |                   |                   |
|--|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|  | 2007-08                  | 2008-09           | 2009-10           | 2010-11           | 2011-12           | 2012-13           | 2013-14           | 2014-15           | 2015-16           | 2016-17           |
| <b>Inventory of All Power Resources</b>          |                          |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Steam Turbine (Oil)                              | 1,701,700                | 1,701,700         | 1,701,700         | 1,701,700         | 1,701,700         | 1,701,700         | 1,701,700         | 1,701,700         | 1,701,700         | 1,701,700         |
| Steam Turbine (Oil and Gas)                      | 9,033,000                | 8,977,400         | 8,977,400         | 8,082,600         | 8,082,600         | 8,082,600         | 8,082,600         | 8,082,600         | 8,082,600         | 8,082,600         |
| Steam Turbine (Gas)                              | 1,100,300                | 1,100,300         | 1,100,300         | 1,100,300         | 1,100,300         | 1,100,300         | 1,100,300         | 1,100,300         | 1,100,300         | 1,100,300         |
| Steam Turbine (Coal)                             | 3,548,700                | 2,973,300         | 2,805,100         | 2,805,100         | 2,805,100         | 2,805,100         | 2,805,100         | 2,805,100         | 2,805,100         | 2,805,100         |
| Steam Turbine (Wood)                             | 39,000                   | 39,000            | 39,000            | 39,000            | 39,000            | 39,000            | 39,000            | 39,000            | 39,000            | 39,000            |
|  |                          |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Steam Turbine (Refuse)                           | 263,046                  | 263,046           | 263,046           | 263,046           | 263,046           | 263,046           | 263,046           | 263,046           | 263,046           | 263,046           |
| Steam (PWR <sup>1</sup> Nuclear)                 | 2,642,300                | 2,642,300         | 2,642,300         | 2,642,300         | 2,642,300         | 2,642,300         | 2,642,300         | 2,642,300         | 2,642,300         | 2,642,300         |
| Steam (BWR <sup>2</sup> Nuclear)                 | 2,637,100                | 2,637,100         | 2,637,100         | 2,637,100         | 2,637,100         | 2,637,100         | 2,637,100         | 2,637,100         | 2,637,100         | 2,637,100         |
| Pumped Storage Hydro                             | 1,297,500                | 1,327,500         | 1,357,500         | 1,387,500         | 1,417,500         | 1,417,500         | 1,417,500         | 1,417,500         | 1,417,500         | 1,417,500         |
| Internal Combustion                              | 110,408                  | 110,408           | 110,408           | 110,408           | 110,408           | 110,408           | 110,408           | 110,408           | 110,408           | 110,408           |
|  |                          |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Conventional Hydro                               | 5,019,953                | 5,019,953         | 5,019,953         | 5,019,953         | 5,019,953         | 5,019,953         | 5,019,953         | 5,019,953         | 5,019,953         | 5,019,953         |
| Combined Cycle                                   | 8,455,999                | 8,455,999         | 8,455,999         | 8,765,999         | 9,265,999         | 9,265,999         | 9,265,999         | 9,265,999         | 9,265,999         | 9,265,999         |
| Jet Engine (Oil)                                 | 644,500                  | 644,500           | 644,500           | 644,500           | 644,500           | 644,500           | 644,500           | 644,500           | 644,500           | 644,500           |
| Jet Engine (Gas and Oil)                         | 202,400                  | 202,400           | 202,400           | 202,400           | 202,400           | 202,400           | 202,400           | 202,400           | 202,400           | 202,400           |
| Combustion Turbine (Oil)                         | 1,428,200                | 1,428,200         | 1,428,200         | 1,428,200         | 1,428,200         | 1,428,200         | 1,428,200         | 1,428,200         | 1,428,200         | 1,428,200         |
|  |                          |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Combustion Turbine (Oil and Gas)                 | 2,123,400                | 2,123,400         | 2,123,400         | 2,123,400         | 2,123,400         | 2,123,400         | 2,123,400         | 2,123,400         | 2,123,400         | 2,123,400         |
| Combustion Turbine (Gas)                         | 1,341,500                | 1,341,500         | 1,341,500         | 1,341,500         | 1,341,500         | 1,341,500         | 1,341,500         | 1,341,500         | 1,341,500         | 1,341,500         |
| Wind   | 390,147                  | 390,147           | 390,147           | 390,147           | 390,147           | 390,147           | 390,147           | 390,147           | 390,147           | 390,147           |
| Other  | —                        | —                 | —                 | —                 | —                 | —                 | —                 | —                 | —                 | —                 |
|  |                          |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Additions  | —                        | —                 | 310,000           | 500,000           | —                 | —                 | —                 | —                 | —                 | —                 |
| Reratings  | 30,000                   | 30,000            | 30,000            | 30,000            | —                 | —                 | —                 | —                 | —                 | —                 |
| Retirements                                      | -631,000                 | -168,200          | -894,800          | —                 | —                 | —                 | —                 | —                 | —                 | —                 |
|  |                          |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| <b>Total NYCA Winter Capability</b>              | <b>41,378,153</b>        | <b>41,239,953</b> | <b>40,685,153</b> | <b>41,215,153</b> | <b>41,215,153</b> | <b>41,215,153</b> | <b>41,215,153</b> | <b>41,215,153</b> | <b>41,215,153</b> | <b>41,215,153</b> |
| Purchases <sup>3</sup>                           | 75,000                   | 50,000            | 50,000            | 50,000            | 50,000            | 50,000            | 50,000            | —                 | —                 | —                 |
| UCAP Delivery Rights <sup>5</sup>                | 990,000                  | 990,000           | 990,000           | 990,000           | 990,000           | 990,000           | 990,000           | 990,000           | 990,000           | 990,000           |
| Sales <sup>3</sup>                               | -273,000                 | -273,000          | -273,000          | -263,000          | -263,000          | -263,000          | -263,000          | -263,000          | -263,000          | -263,000          |
| <b>Net Winter Capability</b>                     | <b>42,170,153</b>        | <b>42,006,953</b> | <b>41,452,153</b> | <b>41,992,153</b> | <b>41,992,153</b> | <b>41,992,153</b> | <b>41,992,153</b> | <b>41,942,153</b> | <b>41,942,153</b> | <b>41,942,153</b> |
|  |                          |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Winter Peak Load Forecast                        | 25,324,000               | 25,748,000        | 26,048,000        | 26,341,000        | 26,656,000        | 27,170,000        | 27,522,000        | 27,893,000        | 28,238,000        | 28,614,000        |
| Winter Reserve Margin<br>(at 16.5% of Peak Load) | 4,178,460                | 4,248,420         | 4,297,920         | 4,346,265         | 4,398,240         | 4,483,050         | 4,541,130         | 4,602,345         | 4,659,270         | 4,721,310         |
| Winter Peak Load + 16.5%<br>Reserve Margin       | 29,502,460               | 29,996,420        | 30,345,920        | 30,687,265        | 31,054,240        | 31,653,050        | 32,063,130        | 32,495,345        | 32,897,270        | 33,335,310        |
|  |                          |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Actual Reserve kW                                | 16,846,153               | 16,258,953        | 15,404,153        | 15,651,153        | 15,336,153        | 14,822,153        | 14,470,153        | 14,049,153        | 13,704,153        | 13,328,153        |
| Actual Winter Reserve Margin                     | 66.5%                    | 63.1%             | 59.1%             | 59.4%             | 57.5%             | 54.6%             | 52.6%             | 50.4%             | 48.5%             | 46.6%             |

(Continued on the following page)

TABLE L-23 (continued)

**New York Independent System Operator Electric Energy Load and Capacity Schedule  
2007-16  
(Kilowatts)**

| New York Control Area (NYCA)              | --- Summer Capability Period --- |            |            |            |            |            |            |            |            |            |
|---|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|   | 2007                             | 2008       | 2009       | 2010       | 2011       | 2012       | 2013       | 2014       | 2015       | 2016       |
| Inventory of All Power Resources          |                                  |            |            |            |            |            |            |            |            |            |
| Steam Turbine (Oil)                       | 1,634,500                        | 1,634,500  | 1,634,500  | 1,634,500  | 1,634,500  | 1,634,500  | 1,634,500  | 1,634,500  | 1,634,500  | 1,634,500  |
| Steam Turbine (Oil and Gas)               | 9,007,500                        | 8,951,900  | 8,951,900  | 8,951,900  | 8,061,200  | 8,061,200  | 8,061,200  | 8,061,200  | 8,061,200  | 8,061,200  |
| Steam Turbine (Gas)                       | 1,101,900                        | 1,101,900  | 1,101,900  | 1,101,900  | 1,101,900  | 1,101,900  | 1,101,900  | 1,101,900  | 1,101,900  | 1,101,900  |
| Steam Turbine (Coal)                      | 3,469,000                        | 3,142,600  | 2,745,300  | 2,745,300  | 2,745,300  | 2,745,300  | 2,745,300  | 2,745,300  | 2,745,300  | 2,745,300  |
| Steam Turbine (Wood)                      | 38,000                           | 38,000     | 38,000     | 38,000     | 38,000     | 38,000     | 38,000     | 38,000     | 38,000     | 38,000     |
| Steam Turbine (Refuse)                    | 262,196                          | 262,196    | 262,196    | 262,196    | 262,196    | 262,196    | 262,196    | 262,196    | 262,196    | 262,196    |
| Steam (PWR <sup>1</sup> Nuclear)          | 2,640,100                        | 2,640,100  | 2,640,100  | 2,640,100  | 2,640,100  | 2,640,100  | 2,640,100  | 2,640,100  | 2,640,100  | 2,640,100  |
| Steam (BWR <sup>2</sup> Nuclear)          | 2,619,800                        | 2,619,800  | 2,619,800  | 2,619,800  | 2,619,800  | 2,619,800  | 2,619,800  | 2,619,800  | 2,619,800  | 2,619,800  |
| Pumped Storage Hydro                      | 1,284,400                        | 1,314,400  | 1,344,400  | 1,374,400  | 1,404,400  | 1,404,400  | 1,404,400  | 1,404,400  | 1,404,400  | 1,404,400  |
| Internal Combustion                       | 106,440                          | 106,440    | 106,440    | 106,440    | 106,440    | 106,440    | 106,440    | 106,440    | 106,440    | 106,440    |
| Conventional Hydro                        | 4,489,083                        | 4,489,083  | 4,489,083  | 4,489,083  | 4,489,083  | 4,489,083  | 4,489,083  | 4,489,083  | 4,489,083  | 4,489,083  |
| Combined Cycle                            | 7,757,101                        | 7,757,101  | 7,757,101  | 8,067,101  | 8,567,101  | 8,567,101  | 8,567,101  | 8,567,101  | 8,567,101  | 8,567,101  |
| Jet Engine (Oil)                          | 524,300                          | 524,300    | 524,300    | 524,300    | 524,300    | 524,300    | 524,300    | 524,300    | 524,300    | 524,300    |
| Jet Engine (Gas and Oil)                  | 167,400                          | 167,400    | 167,400    | 167,400    | 167,400    | 167,400    | 167,400    | 167,400    | 167,400    | 167,400    |
| Combustion Turbine (Oil)                  | 1,081,700                        | 1,081,700  | 1,081,700  | 1,081,700  | 1,081,700  | 1,081,700  | 1,081,700  | 1,081,700  | 1,081,700  | 1,081,700  |
| Combustion Turbine (Oil and Gas)          | 1,649,900                        | 1,649,900  | 1,649,900  | 1,649,900  | 1,649,900  | 1,649,900  | 1,649,900  | 1,649,900  | 1,649,900  | 1,649,900  |
| Combustion Turbine (Gas)                  | 1,235,600                        | 1,235,600  | 1,235,600  | 1,235,600  | 1,235,600  | 1,235,600  | 1,235,600  | 1,235,600  | 1,235,600  | 1,235,600  |
| Wind                                      | 390,147                          | 390,147    | 390,147    | 390,147    | 390,147    | 390,147    | 390,147    | 390,147    | 390,147    | 390,147    |
| Other                                     | —                                | —          | —          | —          | —          | —          | —          | —          | —          | —          |
| Special Case Resources — SCR <sup>4</sup> | 1,080,000                        | 1,080,000  | 1,080,000  | 1,080,000  | 1,080,000  | 1,080,000  | 1,080,000  | 1,080,000  | 1,080,000  | 1,080,000  |
| Additions                                 | —                                | —          | 310,000    | 500,000    | —          | —          | —          | —          | —          | —          |
| Reratings                                 | 30,000                           | 30,000     | 30,000     | 30,000     | —          | —          | —          | —          | —          | —          |
| Retirements                               | -382,000                         | -397,300   | —          | -890,700   | —          | —          | —          | —          | —          | —          |
| Total NYCA Summer Capability              | 40,187,067                       | 39,819,767 | 40,159,767 | 39,799,067 | 39,799,067 | 39,799,067 | 39,799,067 | 39,799,067 | 39,799,067 | 39,799,067 |
| Purchases <sup>3</sup>                    | 130,000                          | 50,000     | 50,000     | 50,000     | 50,000     | 50,000     | 50,000     | —          | —          | —          |
| UCAP Delivery Rights <sup>5</sup>         | 990,000                          | 990,000    | 990,000    | 990,000    | 990,000    | 990,000    | 990,000    | 990,000    | 990,000    | 990,000    |
| Sales <sup>3</sup>                        | -273,000                         | -273,000   | -273,000   | -263,000   | -263,000   | -263,000   | -263,000   | -263,000   | -263,000   | -263,000   |
| Net Summer Capability                     | 41,034,067                       | 40,586,767 | 40,926,767 | 40,576,067 | 40,576,067 | 40,576,067 | 40,576,067 | 40,526,067 | 40,526,067 | 40,526,067 |
| Summer Peak Load Forecast                 | 33,447,000                       | 33,871,000 | 34,300,000 | 34,734,000 | 35,141,000 | 35,566,000 | 35,962,000 | 36,366,000 | 36,749,000 | 37,141,000 |
| Reserve Margin (at 16.5% of Peak Load)    | 5,518,755                        | 5,588,715  | 5,659,500  | 5,731,110  | 5,798,265  | 5,868,390  | 5,933,730  | 6,000,390  | 6,063,585  | 6,128,265  |
| Summer Peak Load + 16.5% Reserve Margin   | 38,965,755                       | 39,459,715 | 39,959,500 | 40,465,110 | 40,939,265 | 41,434,390 | 41,895,730 | 42,366,390 | 42,812,585 | 43,269,265 |
| Actual Reserve kW                         | 7,587,067                        | 6,715,767  | 6,626,767  | 5,842,067  | 5,435,067  | 5,010,067  | 4,614,067  | 4,160,067  | 3,777,067  | 3,385,067  |
| Actual Summer Reserve Margin              | 22.7%                            | 19.8%      | 19.3%      | 16.8%      | 15.5%      | 14.1%      | 12.8%      | 11.4%      | 10.3%      | 9.1%       |
| Proposed Resource Additions — kW          | —                                | 87,300     | 1,230,550  | 2,028,650  | 2,028,650  | 2,028,650  | 3,128,650  | 3,128,650  | 3,128,650  | 3,128,650  |
| Adjusted Summer Reserve Margin            | 22.7%                            | 20.1%      | 22.9%      | 22.7%      | 21.2%      | 19.8%      | 21.5%      | 20.0%      | 18.8%      | 17.5%      |

NOTES: See Glossary on page 524 for explanation of abbreviations.

— Represents zero.

1 Pressurized Water Reactor.

2 Boiling Water Reactor.

3 Purchases and Sales are with neighboring Control Areas.

4 Special Case Resources (SCR) are loads capable of being interrupted upon demand and distributed generators that are not visible to the Independent System Operator's Market Informa-

tion System and that are subject to special rules in order to participate as installed Capacity suppliers.

5 UCAP Delivery Rights — Unforced Capacity Delivery Rights (UDRs) are rights, as measured in MWs, associated with new incremental controllable transmission projects that provide a transmission interface to a NYCA locality.

SOURCE: New York Independent System Operator, *The New York Independent System Operator 2007 Load and Capacity Data*.

TABLE L-24

### New York Independent System Operator Long-Term Electric Energy Forecast 2006 Baseline and 2007-17 Forecast

| Year                                   | Energy (GWh) |           |             | Summer Peak (MW) |           |             | Winter Peak (MW) <sup>1</sup> |           |             |
|--|--------------|-----------|-------------|------------------|-----------|-------------|-------------------------------|-----------|-------------|
|  | Low Growth   | Base Case | High Growth | Low Growth       | Base Case | High Growth | Low Growth                    | Base Case | High Growth |
| 2006                                   |              | 162,237   |             |                  | 33,939    |             |                               | 25,057    |             |
| 2006 Weather Normalized                |              | 162,853   |             |                  | 32,992    |             |                               | 25,030    |             |
| 2007                                   | 160,258      | 165,214   | 170,170     | 31,775           | 33,447    | 35,119      | 23,045                        | 25,324    | 27,603      |
| 2008                                   | 160,408      | 167,440   | 174,472     | 31,331           | 33,871    | 36,411      | 22,661                        | 25,748    | 28,835      |
| 2009                                   | 160,319      | 169,470   | 178,621     | 31,042           | 34,300    | 37,559      | 22,911                        | 26,048    | 29,185      |
| 2010                                   | 160,581      | 171,744   | 182,907     | 30,901           | 34,734    | 38,567      | 23,152                        | 26,341    | 29,530      |
| 2011                                   | 162,074      | 174,032   | 185,990     | 31,239           | 35,141    | 39,043      | 23,413                        | 26,656    | 29,899      |
| 2012                                   | 164,383      | 176,615   | 188,847     | 31,591           | 35,566    | 39,541      | 23,846                        | 27,170    | 30,494      |
| 2013                                   | 166,277      | 178,759   | 191,241     | 31,917           | 35,962    | 40,007      | 24,136                        | 27,522    | 30,908      |
| 2014                                   | 168,372      | 181,126   | 193,880     | 32,247           | 36,366    | 40,485      | 24,442                        | 27,893    | 31,344      |
| 2015                                   | 170,508      | 183,544   | 196,580     | 32,557           | 36,749    | 40,941      | 24,724                        | 28,238    | 31,752      |
| 2016                                   | 172,910      | 186,256   | 199,602     | 32,874           | 37,141    | 41,408      | 25,031                        | 28,614    | 32,197      |
| 2017                                   | 175,082      | 188,728   | 202,374     | 33,276           | 37,631    | 41,986      | 25,350                        | 28,978    | 32,606      |
| - - - Annual Average Growth Rate - - - |              |           |             |                  |           |             |                               |           |             |
| 1997-2006 (Actual)                     |              | 0.97%     |             |                  | 1.69%     |             |                               | 1.11%     |             |
| 2006 (Actual) - 2017                   |              | 1.38%     |             |                  | 0.94%     |             |                               | 1.33%     |             |
| 2006 (Normal) - 2017                   |              | 1.35%     |             |                  | 1.20%     |             |                               | 1.34%     |             |

NOTES: 2006 Weather-normalized Summer peak is 32,992 MW; 2006-07 normalized Winter peak is 25,030 MW; normalized annual usage is 162,853 GWh. Growth rates are shown based on both 2006 actual and 2006 normal energy and peak demand.

SOURCE: New York Independent System Operator, *The New York Independent System Operator 2007 Load and Capacity Data*.

1 Winter peaks run from November of current year through April of next.

TABLE L-25

### Energy Conversion Factors New York State — 2006

| Fuel Type                         | Approximate Heat Content of Various Fuels |            |
|-----------------------------------|---|------------|
|                                   | Units                                     | 2006       |
| Wood                              | Btu/cord                                  | 20,000,000 |
| Coal                              | Btu/Short ton                             |            |
| Electric Generation Consumption   |   | 19,952,000 |
| Other End Use Sectors Consumption |   | 22,050,000 |
| Natural Gas                       | Btu/Cubic Foot                            |            |
| Electric Generation Consumption   |   | 1,028      |
| Other End Use Sectors Consumption |   | 1,030      |
| Electricity Consumption           | Btu/kWh                                   | 3,412      |
| Petroleum Products                | Btu/barrel                                |            |
| Distillate Fuel Oil               |   | 5,825,000  |
| Ethanol                           |   | 3,539,000  |
| Jet Fuel, Kerosene Type           |   | 5,670,000  |
| Kerosene                          |   | 5,670,000  |
| Motor Gasoline                    |   | 5,218,000  |
| LPG (propane)                     |   | 3,604,000  |
| Residual Fuel Oil                 |   | 6,287,000  |

NOTE: See Glossary on page 524 for explanation of abbreviations.

SOURCE: New York State Energy Research and Development Authority.

**TABLE L-26**  
**Oil and Gas Drillings and Completions**  
**New York State — 1966-2006**

| Year              | Drillings        |                       | Completions        |                  |                  |           |                 |          |           |                 |         |               |            |
|-------------------|------------------|-----------------------|--------------------|------------------|------------------|-----------|-----------------|----------|-----------|-----------------|---------|---------------|------------|
|                   | Total Started    | Waiting on Completion | Total <sup>1</sup> | Oil              | Gas              | Dry Holes | Service         | Disposal | Injection | Solution Mining | Storage | Stratigraphic | Geothermal |
| 1966              | 66               |                       | 25                 | 6                | 19               | 41        | —               |          |           |                 |         |               |            |
| 1967              | 238              |                       | 203                | 163              | 13               | 35        | 27              |          |           |                 |         |               |            |
| 1968              | 120              |                       | 107                | 83               | 10               | 13        | 14              |          |           |                 |         |               |            |
| 1969              | 139              |                       | 126                | 88               | 13               | 13        | 25              |          |           |                 |         |               |            |
| 1970              | 112              |                       | 102                | 60               | 8                | 10        | 24              |          |           | 10              |         |               |            |
| 1971              | 125              |                       | 114                | 79               | 10               | 11        | 24              |          |           | 1               |         |               |            |
| 1972              | 140              |                       | 131                | 91               | 20               | 9         | 15              |          |           | 5               |         |               |            |
| 1973              | 204              |                       | 182                | 123              | 39               | 22        | 20              |          |           |                 |         |               |            |
| 1974              | 495              |                       | 450                | 140              | 253              | 45        | 57              |          |           |                 |         |               |            |
| 1975              | 496              |                       | 460                | 149              | 267              | 36        | 44              |          |           |                 |         |               |            |
| 1976              | 537              |                       | 490                | 126              | 324              | 47        | 40              |          |           |                 |         |               |            |
| 1977              | 538              |                       | 470                | 119              | 256              | 68        | 95              |          |           |                 |         |               |            |
| 1978              | 482              |                       | 456                | 161              | 224              | 26        | 71              |          |           |                 |         |               |            |
| 1979              | 623 <sup>e</sup> |                       | 593                | 172 <sup>e</sup> | 410 <sup>e</sup> | 30        | 11 <sup>e</sup> |          |           |                 |         |               |            |
| 1980              | 589              |                       | 579                | 120              | 456              | 10        | —               |          |           | 3               |         |               |            |
| 1981              | 724              |                       | 705                | 123              | 560              | 19        | 13              |          |           | 9               |         |               |            |
| 1982              | 703              |                       | 690                | 89               | 590              | 13        | 2               |          |           | 9               |         |               |            |
| 1983              | 776              |                       | 722                | 55               | 635              | 20        | 1               | 1        | —         | 8               | 2       |               | —          |
| 1984              | 739              | 127                   | 791                | 148              | 605              | 29        | —               | 1        | —         | 7               | 1       |               | —          |
| 1985              | 556              | 155                   | 544                | 119              | 392              | 25        | 1               | —        | —         | 7               | —       |               | —          |
| 1986              | 311              | 106 <sup>a</sup>      | 345                | 45               | 278              | 13        | —               | —        | —         | 7               | 1       |               | 1          |
| 1987              | 217              | 55 <sup>a</sup>       | 318                | 20               | 242              | 17        | —               | 1        | 1         | 25              | 12      |               | —          |
| 1988              | 211              | 25                    | 205                | 15               | 164              | 18        | 1               | —        | —         | 6               | —       |               | 1          |
| 1989              | 217              | 80                    | 245                | 28               | 181              | 12        | —               | —        | 14        | 8               | —       |               | 2          |
| 1990              | 221              | 38                    | 223                | 43               | 148              | 16        | —               | —        | 1         | 12              | —       |               | 3          |
| 1991              | 213              | 12                    | 215                | 51               | 133              | 17        | 1               | —        | —         | 1               | 12      |               | —          |
| 1992              | 205              | 31                    | 192                | 71               | 75               | 17        | 1               | —        | —         | 15              | 13      |               | —          |
| 1993              | 134              | b                     | 165                | 26               | 96               | 19        | 4               | —        | 2         | 12              | 5       |               | 2          |
| 1994              | 133              | b                     | 139                | 34               | 51               | 7         | —               | —        | —         | 6               | —       |               | 41         |
| 1995              | 111              | b                     | 110                | 20               | 31               | 2         | 2               | —        | 14        | 14              | 7       |               | 20         |
| 1996              | 146              | b                     | 125                | 70               | 35               | 4         | 2               | 2        | —         | 4               | 8       |               | —          |
| 1997              | 91               | b                     | 66                 | 29               | 21               | 3         | —               | —        | —         | 12              | 1       |               | —          |
| 1998              | 74               | b                     | 90                 | 7                | 41               | 20        | —               | —        | —         | 19              | 3       |               | —          |
| 1999              | 101              | b                     | 87                 | 25               | 28               | 21        | —               | —        | —         | 7               | —       |               | 6          |
| 2000 <sup>r</sup> | 122              | b                     | 144                | 16               | 113              | 23        | —               | —        | —         | 14              | 1       |               | —          |
| 2001 <sup>r</sup> | 138              | b                     | 153                | 26               | 96               | 28        | —               | —        | —         | 14              | 6       |               | 5          |
| 2002 <sup>r</sup> | 118              | b                     | 113                | 18               | 43               | 36        | —               | —        | —         | 14              | 15      |               | 22         |
| 2003 <sup>r</sup> | 135              | b                     | 94                 | 29               | 30               | 24        | —               | —        | —         | 12              | 3       |               | 15         |
| 2004 <sup>r</sup> | 181              | b                     | 159                | 57               | 69               | 27        | —               | —        | —         | 15              | 1       |               | 11         |
| 2005 <sup>r</sup> | 316              | b                     | 238                | 98               | 108              | 18        | —               | —        | 2         | 14              | 4       |               | —          |
| 2006              | 533              | b                     | 483                | 180              | 230              | 8         | —               | —        | 2         | 19              | 16      |               | 24         |

— Represents zero.

e Estimated.

r Revised.

a Includes wells started to be drilled in previous years.

b This statistic has been discontinued.

1 Completions Totals do not include the numbers in "Dry Holes."

SOURCE: New York State Department of Environmental Conservation, Division of Mineral Resources.

**TABLE L-27**  
**Oil and Gas Reserves**  
**New York State — 1966-2006**

| Year  | Gas Reserves <sup>1</sup><br>(MMcf) |         |                          | Oil Reserves <sup>1</sup> |
|-------|-------------------------------------|---------|--------------------------|---------------------------|
|       | Total                               | In Situ | In Storage<br>Reservoirs | (Mbbbl)                   |
| 1966  | 120,781                             | NA      | NA                       | 10,182                    |
| 1967  | 121,086                             | NA      | NA                       | 14,578                    |
| 1968  | 124,087                             | NA      | NA                       | 13,046                    |
| 1969  | 121,000                             | NA      | NA                       | 11,790                    |
| 1970  | 117,907                             | 26,104  | 91,803                   | 10,596                    |
| 1971  | 115,705                             | 42,116  | 73,589                   | 9,772                     |
| 1972  | 139,184                             | 51,240  | 87,944                   | 9,246                     |
| 1973  | 136,842                             | 37,851  | 98,991                   | 8,288                     |
| 1974  | 165,546                             | 67,355  | 98,191                   | 10,898                    |
| 1975  | 215,843                             | 99,755  | 116,088                  | 10,024                    |
| 1976  | 236,029                             | 126,541 | 109,488                  | 9,168                     |
| 1977  | 247,303                             | 133,199 | 114,104                  | 9,094                     |
| 1978  | 262,711                             | 147,323 | 115,388                  | 8,996                     |
| 1979  | 282,520                             | 159,806 | 122,714                  | 9,642                     |
| 1980  | 281,000                             | 170,431 | 110,569                  | 9,419                     |
| 1981  | 277,000                             | 157,402 | 119,598                  | 9,070                     |
| 1982  | 330,472                             | 186,180 | 144,292                  | 8,739                     |
| 1983  | 363,895                             | 229,406 | 134,489                  | 11,788                    |
| 1984  | 395,845                             | 251,880 | 143,965                  | 11,200                    |
| 1985  | 398,906                             | 260,431 | 138,475                  | 10,707                    |
| 1986r | 404,420                             | 263,479 | 140,941                  | 9,854                     |
| 1987  | 406,871                             | 266,508 | 140,363                  | 10,425                    |
| 1988  | 407,337                             | 262,518 | 144,819                  | 2,000                     |
| 1989r | 401,859                             | 270,074 | 131,785                  | 2,441                     |
| 1990r | 408,310                             | 266,410 | 141,900                  | 2,001                     |
| 1991r | 416,014                             | 265,320 | 150,694                  | 2,100                     |
| 1992r | 403,788                             | 252,988 | 150,800                  | 2,962                     |
| 1993r | 399,243                             | 245,843 | 153,400                  | 2,900                     |
| 1994r | 387,067                             | 232,867 | 154,200                  | 2,800                     |
| 1995  | 378,584                             | 219,084 | 159,500                  | 2,850                     |
| 1996  | 376,622                             | 205,522 | 171,100                  | 2,900                     |
| 1997  | 347,042                             | 192,546 | 154,496                  | 2,645                     |
| 1998r | 354,454                             | 189,342 | 165,112                  | 2,428                     |
| 1999a | 222,370                             | 65,160  | 157,210                  | 846                       |
| 2000  | 243,586                             | 96,273  | 147,313                  | 783                       |
| 2001r | 288,767                             | 124,454 | 164,313                  | 1,189                     |
| 2002  | 335,830                             | 173,731 | 162,099                  | 1,069                     |
| 2003  | 340,495                             | 163,559 | 176,936                  | 1,066                     |
| 2004  | 370,439                             | 208,707 | 161,732                  | 1,056                     |
| 2005  | 388,897                             | 219,607 | 169,290                  | 1,322                     |
| 2006  | 396,082                             | 212,766 | 183,316                  | 1,910                     |

NOTE: See Glossary on page 524 for explanation of abbreviations.

NA Not available.

r Revised.

a Reserves revised based on updated estimation methods.

<sup>1</sup> Proven reserves at year end.

SOURCE: New York State Department of Environmental Conservation,  
Division of Mineral Resources.

TABLE L-28

**Nuclear Power Plants — Net Generation and Summer Capability  
United States by State — 2005**

| State                | Units | Net Nuclear<br>Generation<br>(million kWh) | Net Summer<br>Capability<br>(million kWh) |
|----------------------|-------|--|---|
| United States        | 104   | 781,986                                    | 99.99                                     |
| Alabama              | 5     | 31,694                                     | 5.01                                      |
| Alaska               | —     | —  | —   |
| Arizona              | 3     | 25,807                                     | 3.88                                      |
| Arkansas             | 2     | 13,690                                     | 1.83                                      |
| California           | 4     | 36,155                                     | 4.32                                      |
| Colorado             | —     | —  | —   |
| Connecticut          | 2     | 15,562                                     | 2.04                                      |
| Delaware             | 3     | —  | —   |
| District of Columbia | —     | —  | —   |
| Florida              | 5     | 28,759                                     | 3.90                                      |
| Georgia              | 4     | 31,534                                     | 4.06                                      |
| Hawaii               | —     | —  | —   |
| Idaho                | —     | —  | —   |
| Illinois             | 11    | 93,263                                     | 11.39                                     |
| Indiana              | —     | —  | —   |
| Iowa                 | 1     | 4,538                                      | 0.58                                      |
| Kansas               | 1     | 8,821                                      | 1.17                                      |
| Kentucky             | —     | —  | —   |
| Louisiana            | 2     | 15,676                                     | 2.12                                      |
| Maine                | —     | —  | —   |
| Maryland             | 2     | 14,703                                     | 1.74                                      |
| Massachusetts        | 1     | 5,475                                      | 0.69                                      |
| Michigan             | 3     | 32,872                                     | 3.98                                      |
| Minnesota            | 3     | 12,835                                     | 1.62                                      |
| Mississippi          | 1     | 10,078                                     | 1.27                                      |
| Missouri             | 1     | 8,031                                      | 1.19                                      |
| Montana              | —     | —  | —   |
| Nebraska             | 2     | 8,802                                      | 1.24                                      |
| Nevada               | —     | —  | —   |
| New Hampshire        | 1     | 9,456                                      | 1.22                                      |
| New Jersey           | 1     | 31,392                                     | 3.98                                      |
| New Mexico           | —     | —  | —   |
| New York             | 6     | 42,443                                     | 5.15                                      |
| North Carolina       | 5     | 39,982                                     | 4.94                                      |
| North Dakota         | —     | —  | —   |
| Ohio                 | 3     | 14,803                                     | 2.11                                      |
| Oklahoma             | —     | —  | —   |
| Oregon               | —     | —  | —   |
| Pennsylvania         | 9     | 76,289                                     | 9.20                                      |
| Rhode Island         | —     | —  | —   |
| South Carolina       | 7     | 53,138                                     | 6.47                                      |
| South Dakota         | —     | —  | —   |
| Tennessee            | 3     | 27,803                                     | 3.40                                      |
| Texas                | 4     | 38,232                                     | 4.86                                      |
| Utah                 | —     | —  | —   |
| Vermont              | 1     | 4,072                                      | 0.51                                      |
| Virginia             | 4     | 27,918                                     | 3.43                                      |
| Washington           | 1     | 8,242                                      | 1.13                                      |
| West Virginia        | —     | —  | —   |
| Wisconsin            | 3     | 9,921                                      | 1.58                                      |
| Wyoming              | —     | —  | —   |

NOTE: Detail may not add to totals due to rounding.

— Represents zero.

SOURCE: *Statistical Abstract of the United States, 2008*, www.census.gov/prod/2007pubs/08statab/energy.pdf (last viewed July 22, 2008); U.S. Energy Information Administration, *Electric Power Annual 2005*.

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## Glossary L

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**Barrel.** Liquid volume measure equal to 42 gallons, commonly used in expressing quantities of petroleum or petroleum products.

**Biofuels:** Nonfossil biomass energy sources that are essentially unprocessed; they are burned or gasified to produce thermal energy or electricity. Examples are fuel wood, waste wood, garbage, and crop waste. Different mixes of biofuels are used by each consuming sector. The residential sector burns wood for space heating. The transportation sector uses ethanol as an additive to motor gasoline. Some electric generation uses wood or municipal waste as co-firing or primary fuels.

**Bituminous Coal.** Often referred to as “soft coal.” It is more volatile than anthracite and has a higher heat content than lignite. It is the most predominantly used coal and has a heating value of 11,450 to 13,010 Btu per pound.

**British Thermal Unit (Btu).** The quantity of heat necessary to raise the temperature of one pound of water one degree Fahrenheit. Because different energy types use different standards of measurement, they are often converted to Btu to enable comparison. One Btu is equal to 252 calories of heat.

**Coke.** Primarily used in the steel-making process, a porous, solid residue resulting from the incomplete combustion of coal in a closed chamber or oven with a limited supply of air.

**Commercial Sector.** That sector of the economy which engages primarily in the sale of services and needs energy for uses other than those involving industrial uses, electric utilities and residential uses. Included are apartment buildings, office buildings, governmental units, schools, institutions and churches.

**Crude Oil.** A mixture of hydrocarbons that exist in the liquid phase in natural underground reservoirs. Refined crude oil produces a number of different fuels, such as residual fuel, motor gasoline and distillate.

**Degree-Days, Cooling.** This statistic is a measure of temperature as it affects energy demand for space cooling. It is similar to heating degree-days although the relationship is not as precise. If the average of a day's high and low temperature extremes is below 65°F, then the degree-days for that day are taken to be zero; otherwise, they are equal to the difference between the average and 65°F. A larger number of cooling degree-days implies hotter temperatures.

**Degree-Days, Heating.** This statistic is a measure of temperature as it affects energy demand for space heating. It is based on the fact that most buildings require no heat to maintain an inside temperature of at least 70°F when the daily mean is 65°F or higher. If the average of a day's high and low temperature extremes is above 65°F, the degree-days for that day are taken to be zero; otherwise, they are equal to the difference between the average and 65°F. A larger number of heating degree-days implies colder temperatures.

**Distillate Fuel Oil.** Usually means “home heating oil.” Its products are actually No. 1 and No. 2 heating oils, diesel fuels and No. 4 fuel oil. These products are used primarily for space heating, on-highway and off-road diesel engine fuel (including railroad engine fuel) and electric power generation.

**Electricity Generated With Nonfossil Fuels.** Includes all electrical generation produced by nuclear, hydro and other

sources such as wood, waste products, geothermal and solar sources.

**Energy Requirements.** There are more 19 million New Yorkers and we required 162 billion kilowatt hours of electricity to meet our needs in 2006. It is projected that we will demand 189 billion kilowatt hours in the year 2017. This projection of future energy requirements considers energy conservation, regulatory influences, population, weather, and societal and economic influences.

**Energy Sources.** Electrical power is provided by converting the energy of an energy resource (e.g., coal, oil, etc.) into electricity. There are a variety of raw energy resources, which utilities select to use for conversion to electricity. The selection is made based on many factors such as: geographical location, source, availability and cost of energy source, environmental criteria, and population density.

**Fossil Fuels.** Any naturally occurring fuel of an organic nature such as coal, oil and natural gas derived from the remains of ancient plants and animals. These sometimes are called conventional fuels or conventional energy sources (as compared with solar power, wind energy, etc.) because the bulk of today's energy is derived from them and most of the industrial economy is based upon them.

**Gallon (gal).** A unit of volume, the U.S. gallon contains 3.785 liters and is .083 times the imperial gallon. One U.S. gallon of water weighs 8.3 pounds.

**Generating Capacity.** This is the total output measured in watts that all the generators installed in the system can produce. Therefore, a reserve, the difference between the total installed generating capacity and the peak load, is required. The desired reserve is based on reliability and economic considerations.

**Gigawatt (GW).** 1,000,000 kilowatts, or 1 billion watts.

**Gigawatt-hour (GWh).** One billion watt hours.

**Hydro-.** A prefix used to identify a type of generating station, power or energy output in which the prime mover is water.

**Industrial Sector.** That section of the economy involved in mining, construction or manufacturing.

**Jet Fuel.** Includes both naphtha-type and kerosene-type jet fuel meeting standards for use in aircraft turbine engines. Some jet fuel is used for generating electricity in gas turbines.

**Kerosene.** A petroleum middle distillate having burning properties suitable for use as an illuminant when burned in wick lamps. Kerosene is also used in space heaters, cooking stoves and water heaters.

**Kilowatt (kW).** One thousand watts, usually the yardstick for measurement of generator capacity, (e.g., a 500,000 KW generator). One kW (Kilowatt) equals 1,000 watts.

**Kilowatt Hour (kWh).** One thousand watt-hours. The electric energy needed to operate a 100-watt bulb for 10 hours.

**Liquefied petroleum gases (LPG).** Propane, propylene, butane and propane-butane mixtures produced at a refinery or natural gas-processing plant, including plants that fractionate raw natural gas-processing plant liquids. These are derived by refining and processing natural gas, crude oil or unfinished oil.

**Megawatt (MW).** One megawatt equals 1,000 kW or 1,000,000 watts. It is the generating capacity needed to light 10,000 one-hundred watt light bulbs or to satisfy the varied electrical needs of about 1,000 people. Three megawatts is approximately the capacity required to satisfy the electrical needs of a large suburban shopping mall. An office building the size of the United Nations in New York City requires 7 megawatts. On a typical weekday, a city the size of Albany, NY, requires about 440 megawatts of capacity to meet the industrial, commercial and residential needs of her citizens.

**Megawatt-hour (MWh).** One million watt hours.

**Motor gasoline.** A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives that have been blended to form a fuel suitable for use in spark-ignition engines. Included are leaded and unleaded and refinery products.

**Natural Gas.** A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase ("gas well" gas) or in solution with crude oil ("oil well" gas) in natural underground reservoir conditions. It comes from the ground with or without accompanying crude oil and is generally much higher in heat content than manufactured gas. It is used as the raw material in the petrochemical industry for the manufacturing of fertilizer and cellophane.

**Natural Gas Liquids.** Products obtained from processing natural gas at natural gas processing plants, including natural gasoline plants, cycling plants and fractionators. Products obtained include ethane, liquefied petroleum gases (propane, butane and propane-butane mixtures), isopentane, natural gasoline, plant condensate and other minor quantities of finished products such as motor gasoline, special naphthas, jet fuel, kerosene and distillate fuel oil.

**Nuclear.** The energy liberated by fission, fusion, or radioactive decay.

**Peak Load.** Peak load is a measurement of the greatest amount of electrical power in watts demanded during a specific period, e.g., hourly, daily, monthly and yearly. It is comparable to the "Rush Hour" demands on our transportation systems.

**Petroleum.** A generic term applied to oil and oil products in all forms, such as crude oil, lease condensate, unfinished oil, refined petroleum products, natural gas plants, liquids and nonhydrocarbon compounds blended into finished petroleum products.

**Propane.** A colorless, highly volatile hydrocarbon that is readily recovered as a liquefied gas at natural gas processing plants and refineries. It is used primarily for residential and commercial heating and cooling and also as a fuel for transportation and industrial uses, including petrochemical feedstocks. Propane is the first product refined from crude petroleum.

**Refined Petroleum.** Products obtained from processing crude oil, unfinished oils, natural gas liquid and miscellaneous hydrocarbon compounds. Includes aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel,

kerosene, distillate fuel oil, residual fuel oil, ethane, liquefied petroleum gases, petrochemical feedstocks, special naphthas, lubricants, paraffin wax, petroleum coke, asphalt, road oil, still gas and miscellaneous products.

**Residential Sector.** Includes private households. Specifically included are the following end-uses: space heating, space cooling, water heating, cooking, lighting, clothes drying and refrigeration.

**Residual Fuel.** The heavier oils that remain after distillate fuel oils and lighter hydrocarbons are boiled off in refinery operations. Included are products known as No. 5 and No. 6 fuel oil, heavy diesel oil, Navy Special Fuel Oil, Bunker C Oil and acid sludge and pitch used as refinery fuels. Residual fuel oil is used for production of electric power, space heating, vessel bunkering and various industrial purposes.

**Therm.** One therm is equal to 100,000 Btu (see British Thermal Units).

**Ton.** In the United States, Canada, and Union of South Africa, a unit of weight equal to 2,000 pounds. The American ton is often called the short ton. The metric ton equals 2,204.62 pounds.

**Transmission Lines.** To transport electricity from the generating stations to the consumer, a vast network of high and low voltage wires and cables is required along with supporting towers, switchgear, transformers, lightning and grounding cables, ground rods, etc. Some conductors are placed underground but most transmission is accomplished by overhead wire conductors.

**Watt.** The unit of measure for electric power or rate of doing work. It is the rate of energy transfer equivalent to one ampere flowing under a pressure of one volt at unity power factor. It is analogous to horsepower or foot-pounds per minute of mechanical power. One horsepower is equivalent to approximately 746 watts.

#### Abbreviations

|              |                                      |
|--------------|--------------------------------------|
| <b>M</b>     | <b>Thousand or 10<sup>3</sup></b>    |
| <b>MM</b>    | <b>Million or 10<sup>6</sup></b>     |
| <b>B</b>     | <b>Billion or 10<sup>9</sup></b>     |
| <b>T</b>     | <b>Trillion or 10<sup>12</sup></b>   |
| <b>kWh</b>   | <b>Kilowatt-hour</b>                 |
| <b>MWh</b>   | <b>Megawatt-hour or thousand kWh</b> |
| <b>GWh</b>   | <b>Gigawatt-hour or million kWh</b>  |
| <b>cf</b>    | <b>Cubic foot</b>                    |
| <b>Mcf</b>   | <b>Thousand cubic feet</b>           |
| <b>Bcf</b>   | <b>Billion cubic feet</b>            |
| <b>bbbl</b>  | <b>Barrel</b>                        |
| <b>Mbbl</b>  | <b>Thousand barrels</b>              |
| <b>MTons</b> | <b>Thousand tons</b>                 |
| <b>Btu</b>   | <b>British Thermal Unit</b>          |
| <b>LPG</b>   | <b>Liquefied petroleum gas</b>       |
| <b>MGD</b>   | <b>Million gallons per day</b>       |

