

Table 7.1 – Electricity Net Generation

(Billion Kilowatthours)

| | <u>1980</u> | <u>1990</u> | <u>2000</u> | <u>2001</u> | <u>2002</u> | <u>2003</u> | <u>2004</u> | <u>2010</u> | <u>2015</u> | <u>2020</u> | <u>2025</u> | <u>2030</u> |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Coal ¹ | 1,162 | 1,594 | 1,966 | 1,904 | 1,933 | 1,974 | 1,976 | 2,218 | 2,277 | 2,505 | 2,896 | 3,381 |
| Petroleum ² | 246 | 127 | 111 | 125 | 95 | 119 | 118 | 105 | 104 | 107 | 108 | 115 |
| Natural Gas ³ | 346 | 373 | 601 | 639 | 691 | 650 | 700 | 774 | 1,018 | 1,102 | 1,069 | 990 |
| Other Gases ⁴ | NA | 10 | 14 | 9 | 11 | 16 | 15 | 12 | 12 | 12 | 12 | 12 |
| Total Fossil Energy | 1,754 | 2,104 | 2,692 | 2,677 | 2,730 | 2,759 | 2,809 | 3,108 | 3,411 | 3,725 | 4,085 | 4,497 |
| Nuclear | 251 | 577 | 754 | 769 | 780 | 764 | 789 | 809 | 829 | 871 | 871 | 871 |
| Hydroelectric Pumped Storage ⁵ | NA | -4 | -6 | -9 | -9 | -9 | -8 | -9 | -9 | -9 | -9 | -9 |
| Conventional Hydroelectric ⁶ | 279 | 293 | 276 | 217 | 264 | 276 | 270 | 301 | 302 | 303 | 303 | 303 |
| Geothermal | 5 | 15 | 14 | 14 | 14 | 14 | 14 | 18 | 23 | 34 | 47 | 53 |
| Wood ⁷ | 0 | 33 | 38 | 35 | 39 | 38 | 37 | 76 | 79 | 86 | 103 | 103 |
| Waste ⁸ | 0 | 13 | 23 | 22 | 23 | 24 | 23 | 27 | 28 | 29 | 30 | 30 |
| Solar Thermal and Photovoltaic | NA | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 4 | 6 |
| Wind | NA | 3 | 6 | 7 | 10 | 11 | 14 | 51 | 56 | 60 | 63 | 65 |
| Total Renewable Energy | 285 | 357 | 356 | 295 | 351 | 363 | 359 | 476 | 491 | 515 | 549 | 559 |
| Generation for Own Use ⁹ | NA | NA | NA | NA | NA | NA | NA | -177 | -192 | -214 | -252 | -278 |
| Other ¹⁰ | NA | 4 | 5 | 5 | 6 | 6 | 6 | 12 | 12 | 12 | 12 | 12 |
| Total Electricity Generation | 2,290 | 3,038 | 3,802 | 3,737 | 3,858 | 3,883 | 3,953 | 4,388 | 4,727 | 5,108 | 5,491 | 5,926 |

Sources: EIA, *Annual Energy Review 2004*, DOE/EIA-0384(2004) (Washington, D.C., August 2005), Table 8.2a; and EIA, *Annual Energy Outlook 2006*, DOE/EIA-0383(2006) (Washington, D.C., February 2006), Tables A8 and A16.

Notes:

Data include electricity-only and combined-heat-and-power (CHP) plants, whose primary business is to sell electricity – or electricity and heat – to the public. Through 1988, data are for generation at electric utilities only. Beginning in 1989, data also include generation at independent power producers and the commercial and industrial (end-use) sectors.

¹ Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal.

² Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

³ Natural gas, including a small amount of supplemental gaseous fuels. Forecast data include electricity generation from fuel cells.

⁴ Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels (including refinery and still gas).

⁵ Pumped-storage facility production, minus energy used for pumping. Data for 1980 included in conventional hydroelectric power.

⁶ Hydroelectric data through 1988 are for generation at electric utilities and industrial plants only; beginning in 1989, data also include generation at independent power producers and commercial plants.

⁷ Wood, black liquor, and other wood waste.

⁸ Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

⁹ Includes nonutility and end-use sector generation for own use.

¹⁰ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

NA = not available