

High Economic Growth Case Projections:

- **World Energy Consumption**
 - **Gross Domestic Product**
- **Carbon Dioxide Emissions**

Table B1. World Total Primary Energy Consumption by Region, High Economic Growth Case, 1990-2030
(Quadrillion Btu)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| OECD | | | | | | | | | |
| OECD North America | 100.8 | 118.3 | 120.9 | 132.4 | 142.0 | 152.4 | 164.5 | 177.7 | 1.5 |
| United States ^a | 84.7 | 98.3 | 100.7 | 108.2 | 116.2 | 124.1 | 133.9 | 144.4 | 1.4 |
| Canada | 11.1 | 13.5 | 13.6 | 15.7 | 16.3 | 17.4 | 18.6 | 19.9 | 1.5 |
| Mexico | 5.0 | 6.5 | 6.6 | 8.5 | 9.5 | 10.8 | 12.0 | 13.4 | 2.7 |
| OECD Europe | 69.9 | 79.5 | 81.1 | 85.1 | 88.1 | 89.9 | 93.0 | 96.7 | 0.7 |
| OECD Asia | 26.6 | 36.9 | 37.8 | 40.5 | 43.4 | 46.1 | 48.6 | 51.7 | 1.2 |
| Japan | 18.4 | 22.2 | 22.6 | 23.8 | 24.8 | 25.7 | 26.6 | 27.6 | 0.8 |
| South Korea | 3.8 | 8.7 | 9.0 | 9.8 | 11.2 | 12.5 | 13.5 | 14.9 | 2.0 |
| Australia/New Zealand | 4.4 | 6.0 | 6.2 | 6.9 | 7.4 | 7.9 | 8.5 | 9.1 | 1.5 |
| Total OECD | 197.4 | 234.7 | 239.8 | 257.9 | 273.5 | 288.4 | 306.2 | 326.0 | 1.2 |
| Non-OECD | | | | | | | | | |
| Non-OECD Europe and Eurasia .. | 67.2 | 47.9 | 49.7 | 55.6 | 61.6 | 68.3 | 74.6 | 79.6 | 1.8 |
| Russia | 39.0 | 28.8 | 30.1 | 33.4 | 36.7 | 39.9 | 43.5 | 46.3 | 1.7 |
| Other | 28.3 | 19.2 | 19.6 | 22.2 | 25.0 | 28.4 | 31.0 | 33.3 | 2.1 |
| Non-OECD Asia | 47.5 | 88.2 | 99.9 | 133.1 | 160.3 | 189.3 | 219.1 | 252.0 | 3.6 |
| China | 27.0 | 49.7 | 59.6 | 83.9 | 100.7 | 119.5 | 138.8 | 160.9 | 3.9 |
| India | 8.0 | 14.4 | 15.4 | 18.4 | 22.4 | 26.5 | 30.9 | 35.3 | 3.2 |
| Other Non-OECD Asia | 12.5 | 24.0 | 24.9 | 30.8 | 37.2 | 43.3 | 49.4 | 55.7 | 3.2 |
| Middle East | 11.3 | 19.9 | 21.1 | 26.7 | 30.5 | 34.6 | 38.4 | 42.3 | 2.7 |
| Africa | 9.5 | 13.3 | 13.7 | 17.1 | 19.8 | 22.4 | 25.0 | 27.6 | 2.7 |
| Central and South America | 14.5 | 21.7 | 22.5 | 28.1 | 32.6 | 36.8 | 41.2 | 45.8 | 2.8 |
| Brazil | 5.8 | 8.7 | 9.1 | 11.4 | 13.2 | 14.9 | 16.8 | 19.0 | 2.9 |
| Other Central and South America .. | 8.8 | 13.0 | 13.5 | 16.7 | 19.5 | 21.9 | 24.4 | 26.8 | 2.7 |
| Total Non-OECD | 150.0 | 191.0 | 206.9 | 260.7 | 304.9 | 351.4 | 398.2 | 447.2 | 3.0 |
| Total World | 347.3 | 425.7 | 446.7 | 518.6 | 578.4 | 639.8 | 704.4 | 773.3 | 2.1 |

^aIncludes the 50 States and the District of Columbia.

Notes: Energy totals include net imports of coal coke and electricity generated from biomass in the United States. Totals may not equal sum of components due to independent rounding. The electricity portion of the national fuel consumption values consists of generation for domestic use plus an adjustment for electricity trade based on a fuel's share of total generation in the exporting country.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run HM2007.D112106A, web site www.eia.doe.gov/oiaf/aeo; and System for the Analysis of Global Energy Markets (2007).

Table B2. World Total Energy Consumption by Region and Fuel, High Economic Growth Case, 1990-2030
(Quadrillion Btu)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| OECD | | | | | | | | | |
| OECD North America | | | | | | | | | |
| Liquids | 40.5 | 47.2 | 49.2 | 51.8 | 55.6 | 59.7 | 64.3 | 69.5 | 1.3 |
| Natural Gas | 23.2 | 28.5 | 28.5 | 32.1 | 34.8 | 36.8 | 37.9 | 40.2 | 1.3 |
| Coal | 20.7 | 24.1 | 24.1 | 26.6 | 28.6 | 31.5 | 36.2 | 40.4 | 2.0 |
| Nuclear..... | 6.9 | 8.9 | 9.3 | 9.7 | 10.2 | 10.8 | 11.5 | 12.1 | 1.0 |
| Other | 9.5 | 9.8 | 9.9 | 12.3 | 12.9 | 13.6 | 14.6 | 15.4 | 1.7 |
| Total..... | 100.8 | 118.3 | 120.9 | 132.4 | 142.0 | 152.4 | 164.5 | 177.7 | 1.5 |
| OECD Europe | | | | | | | | | |
| Liquids | 28.4 | 31.9 | 32.4 | 32.4 | 33.2 | 34.0 | 34.8 | 35.7 | 0.4 |
| Natural Gas | 11.2 | 18.6 | 19.3 | 22.1 | 24.3 | 26.0 | 28.2 | 30.3 | 1.7 |
| Coal | 17.6 | 13.2 | 13.1 | 13.4 | 13.2 | 12.9 | 12.6 | 12.7 | -0.1 |
| Nuclear..... | 7.9 | 9.8 | 9.9 | 10.2 | 10.0 | 9.3 | 9.3 | 9.4 | -0.2 |
| Other | 4.8 | 5.9 | 6.3 | 7.0 | 7.4 | 7.7 | 8.1 | 8.5 | 1.2 |
| Total..... | 69.9 | 79.5 | 81.1 | 85.1 | 88.1 | 89.9 | 93.0 | 96.7 | 0.7 |
| OECD Asia | | | | | | | | | |
| Liquids | 14.5 | 17.7 | 17.4 | 17.6 | 18.5 | 19.3 | 20.1 | 21.1 | 0.7 |
| Natural Gas | 2.9 | 5.3 | 5.3 | 6.4 | 7.1 | 7.7 | 8.2 | 8.9 | 2.0 |
| Coal | 5.2 | 8.6 | 9.3 | 9.9 | 10.4 | 10.9 | 11.6 | 12.3 | 1.1 |
| Nuclear..... | 2.5 | 3.5 | 4.0 | 4.6 | 5.3 | 6.0 | 6.3 | 6.9 | 2.1 |
| Other | 1.6 | 1.8 | 1.7 | 1.9 | 2.1 | 2.2 | 2.3 | 2.5 | 1.5 |
| Total..... | 26.6 | 36.9 | 37.8 | 40.5 | 43.4 | 46.1 | 48.6 | 51.7 | 1.2 |
| Total OECD | | | | | | | | | |
| Liquids | 83.4 | 96.7 | 98.9 | 101.7 | 107.2 | 113.0 | 119.3 | 126.3 | 0.9 |
| Natural Gas | 37.2 | 52.4 | 53.1 | 60.5 | 66.2 | 70.6 | 74.4 | 79.4 | 1.6 |
| Coal | 43.5 | 45.9 | 46.6 | 49.9 | 52.2 | 55.3 | 60.4 | 65.4 | 1.3 |
| Nuclear..... | 17.3 | 22.2 | 23.2 | 24.5 | 25.6 | 26.1 | 27.1 | 28.5 | 0.8 |
| Other | 15.9 | 17.5 | 17.9 | 21.3 | 22.4 | 23.5 | 25.0 | 26.5 | 1.5 |
| Total..... | 197.4 | 234.7 | 239.8 | 257.9 | 273.5 | 288.4 | 306.2 | 326.0 | 1.2 |
| Non-OECD | | | | | | | | | |
| Non-OECD Europe and Eurasia | | | | | | | | | |
| Liquids | 19.5 | 9.4 | 9.9 | 10.8 | 11.7 | 12.7 | 13.6 | 14.5 | 1.5 |
| Natural Gas | 27.5 | 24.2 | 25.1 | 28.1 | 31.1 | 34.4 | 37.7 | 41.2 | 1.9 |
| Coal | 15.1 | 8.7 | 9.0 | 9.9 | 10.9 | 12.1 | 12.8 | 13.1 | 1.5 |
| Nuclear..... | 2.5 | 2.9 | 2.9 | 3.2 | 3.7 | 4.7 | 5.5 | 5.5 | 2.5 |
| Other | 2.8 | 2.8 | 2.9 | 3.6 | 4.2 | 4.5 | 4.9 | 5.2 | 2.3 |
| Total..... | 67.2 | 47.9 | 49.7 | 55.6 | 61.6 | 68.3 | 74.6 | 79.6 | 1.8 |
| Non-OECD Asia | | | | | | | | | |
| Liquids | 13.9 | 28.1 | 30.6 | 39.4 | 45.8 | 52.4 | 60.0 | 68.9 | 3.2 |
| Natural Gas | 3.0 | 8.1 | 8.9 | 13.5 | 17.5 | 21.8 | 26.8 | 32.6 | 5.1 |
| Coal | 27.2 | 45.8 | 53.6 | 71.5 | 85.9 | 101.4 | 116.1 | 132.1 | 3.5 |
| Nuclear..... | 0.4 | 1.0 | 1.1 | 1.6 | 3.0 | 4.3 | 5.5 | 6.2 | 7.0 |
| Other | 3.0 | 5.2 | 5.7 | 7.1 | 8.1 | 9.4 | 10.7 | 12.1 | 2.9 |
| Total..... | 47.5 | 88.2 | 99.9 | 133.1 | 160.3 | 189.3 | 219.1 | 252.0 | 3.6 |

See notes at end of table.

Table B2. World Total Energy Consumption by Region and Fuel, High Economic Growth Case, 1990-2030 (Continued)
(Quadrillion Btu)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| Non-OECD (Continued) | | | | | | | | | |
| Middle East | | | | | | | | | |
| Liquids | 7.3 | 11.0 | 11.6 | 14.8 | 16.5 | 18.3 | 20.4 | 22.4 | 2.6 |
| Natural Gas | 3.8 | 8.4 | 9.0 | 11.2 | 13.2 | 15.4 | 17.0 | 18.9 | 2.9 |
| Coal | 0.1 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 2.0 |
| Nuclear..... | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | — |
| Other | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 2.9 |
| Total..... | 11.3 | 19.9 | 21.1 | 26.7 | 30.5 | 34.6 | 38.4 | 42.3 | 2.7 |
| Africa | | | | | | | | | |
| Liquids | 4.3 | 5.6 | 5.7 | 7.0 | 8.2 | 9.4 | 10.2 | 11.2 | 2.6 |
| Natural Gas | 1.5 | 2.7 | 2.8 | 3.6 | 4.5 | 5.3 | 6.3 | 7.4 | 3.8 |
| Coal | 3.0 | 4.0 | 4.1 | 5.3 | 5.9 | 6.3 | 7.0 | 7.4 | 2.3 |
| Nuclear..... | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 1.7 |
| Other | 0.6 | 0.9 | 0.9 | 1.1 | 1.1 | 1.2 | 1.3 | 1.4 | 1.7 |
| Total..... | 9.5 | 13.3 | 13.7 | 17.1 | 19.8 | 22.4 | 25.0 | 27.6 | 2.7 |
| Central and South America | | | | | | | | | |
| Liquids | 7.8 | 11.1 | 11.5 | 13.6 | 15.8 | 17.8 | 20.1 | 22.2 | 2.6 |
| Natural Gas | 2.2 | 4.0 | 4.4 | 5.6 | 6.7 | 7.6 | 8.5 | 9.6 | 3.1 |
| Coal | 0.6 | 0.8 | 0.8 | 1.2 | 1.4 | 1.6 | 1.7 | 1.9 | 3.3 |
| Nuclear..... | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 0.4 | 2.3 |
| Other | 3.9 | 5.6 | 5.6 | 7.5 | 8.4 | 9.4 | 10.5 | 11.7 | 2.9 |
| Total..... | 14.5 | 21.7 | 22.5 | 28.1 | 32.6 | 36.8 | 41.2 | 45.8 | 2.8 |
| Total Non-OECD | | | | | | | | | |
| Liquids | 52.7 | 65.2 | 69.3 | 85.6 | 97.9 | 110.6 | 124.3 | 139.2 | 2.7 |
| Natural Gas | 38.0 | 47.4 | 50.3 | 62.0 | 73.0 | 84.4 | 96.4 | 109.7 | 3.0 |
| Coal | 45.9 | 59.7 | 67.9 | 88.3 | 104.6 | 121.9 | 138.1 | 155.2 | 3.2 |
| Nuclear..... | 3.1 | 4.2 | 4.3 | 5.3 | 7.2 | 9.6 | 11.7 | 12.4 | 4.2 |
| Other | 10.3 | 14.5 | 15.3 | 19.5 | 22.1 | 24.8 | 27.7 | 30.7 | 2.7 |
| Total..... | 150.0 | 191.1 | 206.9 | 260.7 | 304.9 | 351.4 | 398.2 | 447.2 | 3.0 |
| Total World | | | | | | | | | |
| Liquids | 136.2 | 161.9 | 168.2 | 187.3 | 205.2 | 223.5 | 243.5 | 265.5 | 1.8 |
| Natural Gas | 75.2 | 99.8 | 103.4 | 122.5 | 139.1 | 155.0 | 170.8 | 189.0 | 2.3 |
| Coal | 89.4 | 105.6 | 114.5 | 138.2 | 156.8 | 177.2 | 198.5 | 220.6 | 2.6 |
| Nuclear..... | 20.4 | 26.4 | 27.5 | 29.8 | 32.8 | 35.7 | 38.8 | 40.9 | 1.5 |
| Other | 26.2 | 32.1 | 33.2 | 40.8 | 44.5 | 48.3 | 52.8 | 57.2 | 2.1 |
| Total..... | 347.3 | 425.7 | 446.7 | 518.6 | 578.4 | 639.8 | 704.4 | 773.3 | 2.1 |

Notes: Energy totals include net imports of coal coke and electricity generated from biomass in the United States. Totals may not equal sum of components due to independent rounding. The electricity portion of the national fuel consumption values consists of generation for domestic use plus an adjustment for electricity trade based on a fuel's share of total generation in the exporting country.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run HM2007.D112106A, web site www.eia.doe.gov/oiaf/aeo; and System for the Analysis of Global Energy Markets (2007).

Table B3. World Gross Domestic Product (GDP) by Region Expressed in Purchasing Power Parity, High Economic Growth Case, 1990-2030
(Billion 2000 Dollars)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|--|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| OECD | | | | | | | | | |
| OECD North America | 8,477 | 12,250 | 12,725 | 15,722 | 18,597 | 22,014 | 26,133 | 30,687 | 3.4 |
| United States ^a | 7,113 | 10,301 | 10,704 | 13,219 | 15,619 | 18,490 | 21,965 | 25,757 | 3.4 |
| Canada | 684 | 973 | 1,005 | 1,213 | 1,403 | 1,596 | 1,812 | 2,057 | 2.8 |
| Mexico | 680 | 975 | 1,016 | 1,291 | 1,575 | 1,928 | 2,356 | 2,874 | 4.1 |
| OECD Europe | 8,067 | 10,850 | 11,132 | 13,143 | 15,074 | 17,246 | 19,641 | 22,386 | 2.7 |
| OECD Asia | 3,621 | 4,630 | 4,761 | 5,660 | 6,419 | 7,115 | 7,825 | 8,625 | 2.3 |
| Japan | 2,862 | 3,289 | 3,363 | 3,864 | 4,225 | 4,511 | 4,766 | 5,036 | 1.6 |
| South Korea | 331 | 683 | 715 | 982 | 1,227 | 1,455 | 1,699 | 1,980 | 4.0 |
| Australia/New Zealand | 429 | 658 | 682 | 815 | 967 | 1,149 | 1,360 | 1,609 | 3.4 |
| Total OECD | 20,165 | 27,730 | 28,619 | 34,526 | 40,091 | 46,375 | 53,599 | 61,698 | 3.0 |
| Non-OECD | | | | | | | | | |
| Non-OECD Europe and Eurasia | 3,601 | 3,081 | 3,332 | 4,860 | 6,133 | 7,527 | 9,152 | 11,086 | 4.7 |
| Russia | 2,241 | 1,780 | 1,907 | 2,675 | 3,287 | 3,935 | 4,691 | 5,561 | 4.2 |
| Other | 1,360 | 1,301 | 1,425 | 2,185 | 2,847 | 3,592 | 4,461 | 5,525 | 5.4 |
| Non-OECD Asia | 5,995 | 14,573 | 15,841 | 25,157 | 34,366 | 45,975 | 60,049 | 77,793 | 6.3 |
| China | 2,002 | 7,013 | 7,722 | 13,235 | 18,676 | 25,600 | 33,910 | 44,319 | 7.0 |
| India | 1,703 | 3,434 | 3,727 | 5,756 | 7,782 | 10,304 | 13,441 | 17,484 | 6.1 |
| Other Non-OECD Asia | 2,291 | 4,125 | 4,393 | 6,166 | 7,907 | 10,072 | 12,698 | 15,989 | 5.1 |
| Middle East | 820 | 1,364 | 1,453 | 1,989 | 2,513 | 3,122 | 3,852 | 4,745 | 4.7 |
| Africa | 1,450 | 2,056 | 2,161 | 2,998 | 3,912 | 5,052 | 6,483 | 8,304 | 5.3 |
| Central and South America | 2,191 | 3,110 | 3,297 | 4,363 | 5,396 | 6,638 | 8,136 | 9,953 | 4.3 |
| Brazil | 1,022 | 1,378 | 1,446 | 1,813 | 2,199 | 2,658 | 3,202 | 3,850 | 3.8 |
| Other Central and South America | 1,169 | 1,733 | 1,852 | 2,551 | 3,196 | 3,980 | 4,934 | 6,103 | 4.7 |
| Total Non-OECD | 14,057 | 24,184 | 26,085 | 39,367 | 52,320 | 68,314 | 87,671 | 111,881 | 5.8 |
| Total World | 34,222 | 51,914 | 54,704 | 73,893 | 92,410 | 114,689 | 141,270 | 173,579 | 4.5 |

^aIncludes the 50 States and the District of Columbia.

Notes: Totals may not equal sum of components due to independent rounding. GDP growth rates for China and India were adjusted, based on the analyst's judgment.

Sources: **History:** Global Insight, Inc., *World Overview* (Lexington, MA, various issues). **Projections:** Global Insight, Inc., *World Overview*, Fourth Quarter 2006 (Lexington, MA, January 2007); and Energy Information Administration, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington DC, February 2007), Table B4.

Table B4. World Liquids Consumption by Region, High Economic Growth Case, 1990-2030
(Million Barrels Oil Equivalent per Day)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|--|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| OECD | | | | | | | | | |
| OECD North America | 20.5 | 24.2 | 25.0 | 26.4 | 28.4 | 30.5 | 32.9 | 35.5 | 1.4 |
| United States ^a | 17.0 | 20.0 | 20.7 | 21.9 | 23.5 | 25.3 | 27.4 | 29.7 | 1.4 |
| Canada | 1.7 | 2.2 | 2.3 | 2.4 | 2.4 | 2.5 | 2.5 | 2.6 | 0.5 |
| Mexico | 1.8 | 1.9 | 2.0 | 2.2 | 2.4 | 2.7 | 3.0 | 3.3 | 2.0 |
| OECD Europe | 13.7 | 15.4 | 15.6 | 15.7 | 16.0 | 16.4 | 16.8 | 17.3 | 0.4 |
| OECD Asia | 7.1 | 8.7 | 8.5 | 8.6 | 9.1 | 9.5 | 9.9 | 10.3 | 0.7 |
| Japan | 5.2 | 5.5 | 5.4 | 5.2 | 5.4 | 5.5 | 5.6 | 5.8 | 0.3 |
| South Korea | 1.0 | 2.2 | 2.1 | 2.3 | 2.6 | 2.7 | 2.9 | 3.2 | 1.5 |
| Australia/New Zealand | 0.8 | 1.0 | 1.0 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 | 1.2 |
| Total OECD | 41.3 | 48.3 | 49.1 | 50.7 | 53.5 | 56.4 | 59.6 | 63.1 | 1.0 |
| Non-OECD | | | | | | | | | |
| Non-OECD Europe and Eurasia . . . | 9.3 | 4.6 | 4.8 | 5.2 | 5.7 | 6.2 | 6.6 | 7.1 | 1.5 |
| Russia | 5.4 | 2.7 | 2.8 | 2.9 | 3.1 | 3.3 | 3.6 | 3.7 | 1.2 |
| Other | 3.9 | 1.9 | 2.0 | 2.3 | 2.5 | 2.8 | 3.0 | 3.3 | 1.9 |
| Non-OECD Asia | 6.6 | 13.6 | 14.8 | 19.1 | 22.2 | 25.4 | 29.1 | 33.4 | 3.2 |
| China | 2.3 | 5.6 | 6.4 | 9.6 | 10.9 | 12.7 | 14.8 | 17.5 | 4.0 |
| India | 1.2 | 2.3 | 2.5 | 2.7 | 3.4 | 3.8 | 4.4 | 4.9 | 2.7 |
| Other Non-OECD Asia | 3.1 | 5.7 | 6.0 | 6.8 | 7.9 | 8.8 | 9.9 | 11.0 | 2.4 |
| Middle East | 3.5 | 5.4 | 5.7 | 7.2 | 8.0 | 8.9 | 9.9 | 10.9 | 2.6 |
| Africa | 2.1 | 2.7 | 2.8 | 3.4 | 4.0 | 4.6 | 5.0 | 5.4 | 2.6 |
| Central and South America | 3.8 | 5.2 | 5.4 | 6.6 | 7.7 | 8.7 | 9.8 | 10.8 | 2.7 |
| Brazil | 1.5 | 2.1 | 2.1 | 2.6 | 3.0 | 3.3 | 3.7 | 4.1 | 2.6 |
| Other Central and South America . . | 2.3 | 3.2 | 3.3 | 4.0 | 4.7 | 5.4 | 6.1 | 6.7 | 2.8 |
| Total Non-OECD | 25.3 | 31.5 | 33.4 | 41.6 | 47.6 | 53.8 | 60.4 | 67.7 | 2.7 |
| Total World | 66.5 | 79.8 | 82.5 | 92.3 | 101.1 | 110.1 | 120.0 | 130.8 | 1.8 |

^aIncludes the 50 States and the District of Columbia.

Note: Totals may not equal sum of components due to independent rounding.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run HM2007.D112106A, web site www.eia.doe.gov/oiaf/aeo; and System for the Analysis of Global Energy Markets (2007).

Table B5. World Natural Gas Consumption by Region, High Economic Growth Case, 1990-2030
(Trillion Cubic Feet)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|--|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| OECD | | | | | | | | | |
| OECD North America | 22.5 | 27.4 | 27.6 | 31.0 | 33.6 | 35.6 | 36.7 | 38.8 | 1.3 |
| United States ^a | 19.2 | 22.3 | 22.4 | 24.5 | 26.4 | 27.3 | 27.4 | 28.4 | 0.9 |
| Canada | 2.4 | 3.4 | 3.4 | 4.0 | 4.3 | 4.8 | 5.2 | 5.7 | 2.0 |
| Mexico | 0.9 | 1.7 | 1.8 | 2.5 | 3.0 | 3.5 | 4.0 | 4.7 | 3.8 |
| OECD Europe | 11.6 | 18.2 | 18.8 | 21.5 | 23.6 | 25.3 | 27.5 | 29.5 | 1.7 |
| OECD Asia | 2.8 | 5.0 | 5.0 | 6.0 | 6.7 | 7.3 | 7.7 | 8.4 | 2.0 |
| Japan | 1.9 | 3.0 | 3.0 | 3.6 | 4.0 | 4.3 | 4.5 | 4.8 | 1.9 |
| South Korea | 0.1 | 0.9 | 1.0 | 1.1 | 1.2 | 1.4 | 1.5 | 1.7 | 2.1 |
| Australia/New Zealand | 0.8 | 1.1 | 1.1 | 1.3 | 1.4 | 1.6 | 1.7 | 1.9 | 2.1 |
| Total OECD | 36.8 | 50.5 | 51.4 | 58.5 | 64.0 | 68.2 | 71.9 | 76.6 | 1.5 |
| Non-OECD | | | | | | | | | |
| Non-OECD Europe and Eurasia .. | 26.7 | 23.6 | 24.4 | 27.3 | 30.3 | 33.4 | 36.7 | 40.0 | 1.9 |
| Russia | 17.3 | 15.3 | 16.0 | 17.7 | 19.5 | 21.1 | 22.7 | 24.4 | 1.6 |
| Other | 9.5 | 8.3 | 8.4 | 9.6 | 10.8 | 12.4 | 14.0 | 15.6 | 2.4 |
| Non-OECD Asia | 2.9 | 7.7 | 8.5 | 12.6 | 16.4 | 20.4 | 25.0 | 30.5 | 5.1 |
| China | 0.5 | 1.1 | 1.4 | 2.9 | 3.8 | 4.8 | 6.1 | 7.6 | 6.9 |
| India | 0.4 | 1.0 | 1.1 | 1.8 | 2.2 | 2.8 | 3.5 | 4.3 | 5.5 |
| Other Non-OECD Asia | 2.0 | 5.6 | 6.0 | 8.0 | 10.4 | 12.8 | 15.4 | 18.5 | 4.4 |
| Middle East | 3.6 | 8.0 | 8.6 | 10.6 | 12.6 | 14.7 | 16.3 | 18.0 | 2.9 |
| Africa | 1.4 | 2.5 | 2.6 | 3.4 | 4.2 | 5.0 | 5.9 | 6.9 | 3.8 |
| Central and South America | 2.0 | 3.7 | 4.1 | 5.2 | 6.3 | 7.1 | 8.0 | 8.9 | 3.1 |
| Brazil | 0.1 | 0.5 | 0.6 | 0.9 | 1.0 | 1.2 | 1.4 | 1.7 | 4.0 |
| Other Central and South America .. | 1.9 | 3.2 | 3.5 | 4.4 | 5.2 | 5.9 | 6.6 | 7.2 | 2.9 |
| Total Non-OECD | 36.5 | 45.5 | 48.2 | 59.2 | 69.7 | 80.5 | 91.8 | 104.4 | 3.0 |
| Total World | 73.4 | 96.0 | 99.6 | 117.7 | 133.6 | 148.8 | 163.7 | 181.0 | 2.3 |

^aIncludes the 50 States and the District of Columbia.

Note: Totals may not equal sum of components due to independent rounding.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run HM2007.D112106A, web site www.eia.doe.gov/oiaf/aeo; and System for the Analysis of Global Energy Markets (2007).

Table B6. World Coal Consumption by Region, High Economic Growth Case, 1990-2030
(Quadrillion Btu)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|--|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| OECD | | | | | | | | | |
| OECD North America | 20.7 | 24.1 | 24.1 | 26.6 | 28.6 | 31.5 | 36.2 | 40.4 | 2.0 |
| United States ^a | 19.2 | 22.3 | 22.6 | 24.4 | 26.3 | 29.0 | 33.3 | 37.3 | 1.9 |
| Canada | 1.3 | 1.4 | 1.2 | 1.5 | 1.6 | 1.7 | 1.9 | 2.1 | 2.2 |
| Mexico | 0.2 | 0.4 | 0.3 | 0.7 | 0.8 | 0.8 | 0.9 | 1.0 | 4.2 |
| OECD Europe | 17.6 | 13.2 | 13.1 | 13.4 | 13.2 | 12.9 | 12.6 | 12.7 | -0.1 |
| OECD Asia | 5.2 | 8.6 | 9.3 | 9.9 | 10.4 | 10.9 | 11.6 | 12.3 | 1.1 |
| Japan | 2.7 | 4.3 | 4.8 | 4.8 | 4.9 | 4.9 | 5.0 | 5.0 | 0.2 |
| South Korea | 0.9 | 1.9 | 2.1 | 2.3 | 2.6 | 2.9 | 3.2 | 3.6 | 2.1 |
| Australia/New Zealand | 1.5 | 2.3 | 2.4 | 2.8 | 2.9 | 3.1 | 3.4 | 3.6 | 1.5 |
| Total OECD | 43.5 | 45.9 | 46.6 | 49.9 | 52.2 | 55.3 | 60.4 | 65.4 | 1.3 |
| Non-OECD | | | | | | | | | |
| Non-OECD Europe and Eurasia .. | 15.1 | 8.7 | 9.0 | 9.9 | 10.9 | 12.1 | 12.8 | 13.1 | 1.5 |
| Russia | 6.8 | 4.5 | 4.8 | 5.2 | 5.5 | 6.1 | 6.6 | 6.9 | 1.4 |
| Other | 8.3 | 4.2 | 4.2 | 4.6 | 5.4 | 6.0 | 6.2 | 6.2 | 1.6 |
| Non-OECD Asia | 27.2 | 45.8 | 53.6 | 71.5 | 85.9 | 101.4 | 116.1 | 132.1 | 3.5 |
| China | 20.3 | 33.7 | 41.1 | 56.2 | 67.7 | 80.1 | 92.1 | 105.6 | 3.7 |
| India | 4.3 | 7.5 | 8.1 | 9.4 | 11.1 | 12.9 | 14.8 | 16.8 | 2.8 |
| Other Non-OECD Asia | 2.6 | 4.6 | 4.3 | 5.9 | 7.2 | 8.4 | 9.2 | 9.7 | 3.2 |
| Middle East | 0.1 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 2.0 |
| Africa | 3.0 | 4.0 | 4.1 | 5.3 | 5.9 | 6.3 | 7.0 | 7.4 | 2.3 |
| Central and South America | 0.6 | 0.8 | 0.8 | 1.2 | 1.4 | 1.6 | 1.7 | 1.9 | 3.3 |
| Brazil | 0.4 | 0.5 | 0.5 | 0.7 | 0.8 | 1.0 | 1.0 | 1.3 | 4.0 |
| Other Central and South America .. | 0.2 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 2.4 |
| Total Non-OECD | 45.9 | 59.7 | 67.9 | 88.3 | 104.6 | 121.9 | 138.1 | 155.2 | 3.2 |
| Total World | 89.4 | 105.6 | 114.5 | 138.2 | 156.8 | 177.2 | 198.5 | 220.6 | 2.6 |

^aIncludes the 50 States and the District of Columbia.

Notes: Totals may not equal sum of components due to independent rounding.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run HM2007.D112106A, web site www.eia.doe.gov/oiaf/aeo; and System for the Analysis of Global Energy Markets (2007).

Table B7. World Nuclear Energy Consumption by Region, High Economic Growth Case, 1990-2030
(Billion Kilowatthours)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| OECD | | | | | | | | | |
| OECD North America | 649 | 845 | 883 | 910 | 961 | 1,017 | 1,087 | 1,147 | 1.0 |
| United States ^a | 577 | 764 | 789 | 789 | 837 | 890 | 958 | 1,010 | 1.0 |
| Canada | 69 | 71 | 86 | 110 | 113 | 116 | 118 | 126 | 1.5 |
| Mexico | 3 | 10 | 9 | 11 | 11 | 11 | 11 | 11 | 0.9 |
| OECD Europe | 743 | 931 | 941 | 914 | 902 | 835 | 831 | 847 | -0.4 |
| OECD Asia | 242 | 351 | 396 | 433 | 497 | 559 | 592 | 646 | 1.9 |
| Japan | 192 | 228 | 272 | 299 | 325 | 352 | 370 | 394 | 1.4 |
| South Korea | 50 | 123 | 124 | 134 | 172 | 207 | 222 | 252 | 2.8 |
| Australia/New Zealand | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| Total OECD | 1,635 | 2,128 | 2,220 | 2,257 | 2,360 | 2,411 | 2,510 | 2,640 | 0.7 |
| Non-OECD | | | | | | | | | |
| Non-OECD Europe and Eurasia . . . | 219 | 260 | 263 | 278 | 323 | 405 | 479 | 476 | 2.3 |
| Russia | 115 | 141 | 137 | 149 | 190 | 236 | 299 | 315 | 3.2 |
| Other | 104 | 119 | 125 | 129 | 133 | 169 | 180 | 161 | 1.0 |
| Non-OECD Asia | 38 | 97 | 103 | 148 | 265 | 389 | 495 | 557 | 6.7 |
| China | 0 | 42 | 48 | 64 | 135 | 217 | 283 | 329 | 7.7 |
| India | 6 | 16 | 15 | 37 | 66 | 97 | 124 | 144 | 9.1 |
| Other Non-OECD Asia | 32 | 39 | 40 | 47 | 64 | 75 | 88 | 84 | 2.9 |
| Middle East | 0 | 0 | 0 | 5 | 6 | 6 | 6 | 6 | — |
| Africa | 8 | 13 | 14 | 14 | 15 | 15 | 21 | 21 | 1.5 |
| Central and South America | 9 | 20 | 19 | 20 | 28 | 34 | 33 | 33 | 2.2 |
| Brazil | 2 | 13 | 12 | 13 | 18 | 22 | 22 | 22 | 2.5 |
| Other Central and South America . . | 7 | 7 | 7 | 7 | 10 | 12 | 11 | 11 | 1.6 |
| Total Non-OECD | 274 | 390 | 399 | 465 | 637 | 849 | 1,034 | 1,093 | 4.0 |
| Total World | 1,909 | 2,518 | 2,619 | 2,722 | 2,997 | 3,260 | 3,544 | 3,733 | 1.4 |

^aIncludes the 50 States and the District of Columbia.

Note: Totals may not equal sum of components due to independent rounding.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run HM2007.D112106A, web site www.eia.doe.gov/oiaf/aeo; and System for the Analysis of Global Energy Markets (2007).

Table B8. World Consumption of Hydroelectricity and Other Renewable Energy by Region, High Economic Growth Case, 1990-2030
(Quadrillion Btu)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| OECD | | | | | | | | | |
| OECD North America | 9.5 | 9.8 | 9.9 | 12.3 | 12.9 | 13.6 | 14.6 | 15.4 | 1.7 |
| United States ^a | 6.1 | 6.0 | 6.0 | 7.6 | 8.0 | 8.4 | 8.9 | 9.3 | 1.7 |
| Canada | 3.1 | 3.5 | 3.5 | 4.1 | 4.2 | 4.5 | 4.9 | 5.3 | 1.7 |
| Mexico | 0.3 | 0.4 | 0.4 | 0.6 | 0.7 | 0.7 | 0.7 | 0.8 | 2.6 |
| OECD Europe | 4.8 | 5.9 | 6.3 | 7.0 | 7.4 | 7.7 | 8.1 | 8.5 | 1.2 |
| OECD Asia | 1.6 | 1.8 | 1.7 | 1.9 | 2.1 | 2.2 | 2.3 | 2.5 | 1.5 |
| Japan | 1.1 | 1.2 | 1.1 | 1.3 | 1.3 | 1.4 | 1.5 | 1.6 | 1.3 |
| South Korea | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 3.5 |
| Australia/New Zealand | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 1.6 |
| Total OECD | 15.9 | 17.5 | 17.9 | 21.3 | 22.4 | 23.5 | 25.0 | 26.5 | 1.5 |
| Non-OECD | | | | | | | | | |
| Non-OECD Europe and Eurasia . . . | 2.8 | 2.8 | 2.9 | 3.6 | 4.2 | 4.5 | 4.9 | 5.2 | 2.3 |
| Russia | 1.8 | 1.6 | 1.7 | 2.2 | 2.5 | 2.6 | 2.9 | 3.0 | 2.3 |
| Other | 1.0 | 1.2 | 1.2 | 1.5 | 1.7 | 1.9 | 2.0 | 2.2 | 2.2 |
| Non-OECD Asia | 3.0 | 5.2 | 5.7 | 7.1 | 8.1 | 9.4 | 10.7 | 12.1 | 2.9 |
| China | 1.3 | 2.9 | 3.3 | 4.0 | 4.7 | 5.5 | 6.2 | 7.0 | 2.9 |
| India | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.4 | 1.6 | 1.9 | 2.8 |
| Other Non-OECD Asia | 0.9 | 1.5 | 1.5 | 2.1 | 2.2 | 2.6 | 2.9 | 3.2 | 3.0 |
| Middle East | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 2.9 |
| Africa | 0.6 | 0.9 | 0.9 | 1.1 | 1.1 | 1.2 | 1.3 | 1.4 | 1.7 |
| Central and South America | 3.9 | 5.6 | 5.6 | 7.5 | 8.4 | 9.4 | 10.5 | 11.7 | 2.9 |
| Brazil | 2.2 | 3.0 | 3.1 | 4.3 | 5.0 | 5.6 | 6.4 | 7.3 | 3.3 |
| Other Central and South America . . | 1.7 | 2.5 | 2.5 | 3.2 | 3.5 | 3.8 | 4.1 | 4.4 | 2.2 |
| Total Non-OECD | 10.3 | 14.5 | 15.3 | 19.5 | 22.1 | 24.8 | 27.7 | 30.7 | 2.7 |
| Total World | 26.2 | 32.1 | 33.2 | 40.8 | 44.5 | 48.3 | 52.8 | 57.2 | 2.1 |

^aIncludes the 50 States and the District of Columbia.

Notes: Totals may not equal sum of components due to independent rounding. U.S. totals include net electricity imports, methanol, and liquid hydrogen.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run HM2007.D112106A, web site www.eia.doe.gov/oiaf/aeo; and System for the Analysis of Global Energy Markets (2007).

Table B9. World Carbon Dioxide Emissions by Region, High Economic Growth Case, 1990-2030
(Million Metric Tons Carbon Dioxide)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| OECD | | | | | | | | | |
| OECD North America | 5,763 | 6,775 | 6,893 | 7,450 | 8,034 | 8,683 | 9,477 | 10,322 | 1.6 |
| United States ^a | 4,989 | 5,800 | 5,923 | 6,304 | 6,801 | 7,322 | 7,997 | 8,711 | 1.5 |
| Canada | 474 | 589 | 584 | 657 | 680 | 732 | 781 | 833 | 1.4 |
| Mexico | 300 | 385 | 385 | 489 | 553 | 628 | 700 | 778 | 2.7 |
| OECD Europe | 4,092 | 4,321 | 4,381 | 4,553 | 4,703 | 4,814 | 4,958 | 5,138 | 0.6 |
| OECD Asia | 1,543 | 2,129 | 2,183 | 2,302 | 2,435 | 2,564 | 2,704 | 2,858 | 1.0 |
| Japan | 1,015 | 1,244 | 1,262 | 1,292 | 1,332 | 1,363 | 1,398 | 1,440 | 0.5 |
| South Korea | 238 | 475 | 497 | 533 | 599 | 660 | 719 | 793 | 1.8 |
| Australia/New Zealand | 291 | 410 | 424 | 478 | 504 | 540 | 587 | 625 | 1.5 |
| Total OECD | 11,399 | 13,225 | 13,457 | 14,305 | 15,172 | 16,060 | 17,139 | 18,318 | 1.2 |
| Non-OECD | | | | | | | | | |
| Non-OECD Europe and Eurasia | 4,193 | 2,717 | 2,819 | 3,121 | 3,437 | 3,784 | 4,087 | 4,365 | 1.7 |
| Russia | 2,334 | 1,602 | 1,685 | 1,841 | 1,988 | 2,154 | 2,319 | 2,462 | 1.5 |
| Other | 1,859 | 1,115 | 1,134 | 1,280 | 1,449 | 1,629 | 1,768 | 1,903 | 2.0 |
| Non-OECD Asia | 3,627 | 6,479 | 7,411 | 9,878 | 11,843 | 13,925 | 16,037 | 18,401 | 3.6 |
| China | 2,241 | 3,898 | 4,707 | 6,615 | 7,908 | 9,344 | 10,810 | 12,500 | 3.8 |
| India | 578 | 1,040 | 1,111 | 1,302 | 1,560 | 1,821 | 2,105 | 2,403 | 3.0 |
| Other Non-OECD Asia | 807 | 1,542 | 1,593 | 1,961 | 2,375 | 2,760 | 3,122 | 3,499 | 3.1 |
| Middle East | 705 | 1,211 | 1,289 | 1,627 | 1,852 | 2,093 | 2,322 | 2,559 | 2.7 |
| Africa | 649 | 895 | 919 | 1,158 | 1,337 | 1,505 | 1,670 | 1,834 | 2.7 |
| Central and South America | 673 | 981 | 1,027 | 1,256 | 1,470 | 1,665 | 1,868 | 2,081 | 2.8 |
| Brazil | 220 | 317 | 334 | 411 | 474 | 536 | 601 | 682 | 2.8 |
| Other Central and South America | 453 | 664 | 693 | 845 | 996 | 1,128 | 1,267 | 1,398 | 2.7 |
| Total Non-OECD | 9,847 | 12,283 | 13,465 | 17,040 | 19,940 | 22,971 | 25,984 | 29,240 | 3.0 |
| Total World | 21,246 | 25,508 | 26,922 | 31,346 | 35,112 | 39,031 | 43,123 | 47,558 | 2.2 |

^aIncludes the 50 States and the District of Columbia.

Note: The U.S. numbers include carbon dioxide emissions attributable to renewable energy sources.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run HM2007.D112106A, web site www.eia.doe.gov/oiaf/aeo; and System for the Analysis of Global Energy Markets (2007).

Table B10. World Carbon Dioxide Emissions from Liquids Use by Region, High Economic Growth Case, 1990-2030
(Million Metric Tons Carbon Dioxide)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|--|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| OECD | | | | | | | | | |
| OECD North America | 2,633 | 3,029 | 3,140 | 3,264 | 3,513 | 3,778 | 4,073 | 4,409 | 1.3 |
| United States ^a | 2,178 | 2,500 | 2,598 | 2,682 | 2,896 | 3,112 | 3,371 | 3,659 | 1.3 |
| Canada | 224 | 279 | 290 | 297 | 304 | 312 | 321 | 331 | 0.5 |
| Mexico | 231 | 250 | 253 | 285 | 313 | 353 | 380 | 419 | 2.0 |
| OECD Europe | 1,867 | 2,099 | 2,125 | 2,127 | 2,179 | 2,231 | 2,287 | 2,346 | 0.4 |
| OECD Asia | 921 | 1,068 | 1,048 | 1,058 | 1,113 | 1,160 | 1,211 | 1,265 | 0.7 |
| Japan | 667 | 683 | 665 | 651 | 665 | 680 | 697 | 716 | 0.3 |
| South Korea | 144 | 248 | 245 | 261 | 292 | 312 | 335 | 361 | 1.5 |
| Australia/New Zealand | 110 | 137 | 138 | 146 | 156 | 168 | 179 | 188 | 1.2 |
| Total OECD | 5,420 | 6,196 | 6,314 | 6,449 | 6,804 | 7,168 | 7,571 | 8,020 | 0.9 |
| Non-OECD | | | | | | | | | |
| Non-OECD Europe and Eurasia | 1,350 | 636 | 663 | 725 | 785 | 853 | 916 | 980 | 1.5 |
| Russia | 782 | 364 | 376 | 399 | 428 | 455 | 485 | 509 | 1.2 |
| Other | 568 | 271 | 287 | 326 | 357 | 398 | 432 | 470 | 1.9 |
| Non-OECD Asia | 950 | 1,822 | 1,983 | 2,540 | 2,955 | 3,375 | 3,864 | 4,433 | 3.1 |
| China | 325 | 711 | 816 | 1,223 | 1,395 | 1,619 | 1,892 | 2,236 | 4.0 |
| India | 160 | 293 | 306 | 339 | 419 | 479 | 547 | 611 | 2.7 |
| Other Non-OECD Asia | 464 | 818 | 861 | 978 | 1,142 | 1,277 | 1,424 | 1,587 | 2.4 |
| Middle East | 493 | 735 | 778 | 994 | 1,106 | 1,229 | 1,367 | 1,502 | 2.6 |
| Africa | 298 | 387 | 395 | 482 | 567 | 649 | 706 | 772 | 2.6 |
| Central and South America | 503 | 696 | 720 | 853 | 990 | 1,120 | 1,261 | 1,395 | 2.6 |
| Brazil | 180 | 248 | 258 | 299 | 340 | 382 | 426 | 471 | 2.3 |
| Other Central and South America | 323 | 449 | 462 | 554 | 650 | 738 | 835 | 924 | 2.7 |
| Total Non-OECD | 3,594 | 4,276 | 4,538 | 5,595 | 6,403 | 7,226 | 8,113 | 9,081 | 2.7 |
| Total World | 9,014 | 10,472 | 10,852 | 12,044 | 13,207 | 14,395 | 15,684 | 17,101 | 1.8 |

^aIncludes the 50 States and the District of Columbia.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run HM2007.D112106A, web site www.eia.doe.gov/oiaf/aeo; and System for the Analysis of Global Energy Markets (2007).

Table B11. World Carbon Dioxide Emissions from Natural Gas Use by Region, High Economic Growth Case, 1990-2030
(Million Metric Tons Carbon Dioxide)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| OECD | | | | | | | | | |
| OECD North America | 1,207 | 1,477 | 1,483 | 1,685 | 1,829 | 1,937 | 1,995 | 2,113 | 1.4 |
| United States ^a | 1,026 | 1,197 | 1,198 | 1,324 | 1,425 | 1,475 | 1,480 | 1,537 | 1.0 |
| Canada | 127 | 183 | 183 | 218 | 233 | 260 | 282 | 305 | 2.0 |
| Mexico | 54 | 98 | 102 | 143 | 171 | 202 | 233 | 271 | 3.8 |
| OECD Europe | 590 | 984 | 1,021 | 1,166 | 1,281 | 1,374 | 1,490 | 1,597 | 1.7 |
| OECD Asia | 152 | 279 | 282 | 336 | 375 | 407 | 433 | 470 | 2.0 |
| Japan | 102 | 168 | 163 | 201 | 221 | 237 | 250 | 266 | 1.9 |
| South Korea | 6 | 50 | 58 | 65 | 73 | 82 | 90 | 100 | 2.1 |
| Australia/New Zealand | 44 | 61 | 61 | 70 | 81 | 88 | 93 | 104 | 2.1 |
| Total OECD | 1,949 | 2,740 | 2,786 | 3,187 | 3,485 | 3,718 | 3,918 | 4,180 | 1.6 |
| Non-OECD | | | | | | | | | |
| Non-OECD Europe and Eurasia | 1,450 | 1,280 | 1,328 | 1,483 | 1,643 | 1,817 | 1,993 | 2,174 | 1.9 |
| Russia | 928 | 828 | 868 | 961 | 1,055 | 1,140 | 1,230 | 1,320 | 1.6 |
| Other | 521 | 452 | 460 | 522 | 588 | 676 | 763 | 854 | 2.4 |
| Non-OECD Asia | 160 | 428 | 471 | 712 | 922 | 1,149 | 1,413 | 1,722 | 5.1 |
| China | 30 | 70 | 83 | 177 | 233 | 296 | 373 | 469 | 6.9 |
| India | 24 | 56 | 64 | 105 | 128 | 162 | 207 | 254 | 5.5 |
| Other Non-OECD Asia | 106 | 301 | 325 | 431 | 561 | 691 | 833 | 999 | 4.4 |
| Middle East | 199 | 442 | 476 | 589 | 697 | 811 | 899 | 998 | 2.9 |
| Africa | 80 | 144 | 148 | 190 | 236 | 281 | 331 | 391 | 3.8 |
| Central and South America | 116 | 209 | 231 | 296 | 354 | 400 | 451 | 506 | 3.1 |
| Brazil | 6 | 27 | 34 | 47 | 56 | 66 | 78 | 94 | 4.0 |
| Other Central and South America | 110 | 181 | 197 | 249 | 298 | 334 | 373 | 412 | 2.9 |
| Total Non-OECD | 2,005 | 2,502 | 2,655 | 3,271 | 3,853 | 4,458 | 5,088 | 5,791 | 3.0 |
| Total World | 3,954 | 5,242 | 5,441 | 6,458 | 7,338 | 8,176 | 9,006 | 9,971 | 2.4 |

^aIncludes the 50 States and the District of Columbia.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run HM2007.D112106A, web site www.eia.doe.gov/oiaf/aeo; and System for the Analysis of Global Energy Markets (2007).

Table B12. World Carbon Dioxide Emissions from Coal Use by Region, High Economic Growth Case, 1990-2030
(Million Metric Tons Carbon Dioxide)

| Region/Country | History | | | Projections | | | | | Average Annual Percent Change, 2004-2030 |
|--|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| | 1990 | 2003 | 2004 | 2010 | 2015 | 2020 | 2025 | 2030 | |
| OECD | | | | | | | | | |
| OECD North America | 1,923 | 2,258 | 2,258 | 2,489 | 2,679 | 2,955 | 3,396 | 3,786 | 2.0 |
| United States ^a | 1,784 | 2,093 | 2,115 | 2,286 | 2,466 | 2,721 | 3,132 | 3,501 | 2.0 |
| Canada | 123 | 128 | 112 | 142 | 144 | 160 | 177 | 197 | 2.2 |
| Mexico | 15 | 37 | 30 | 61 | 69 | 74 | 86 | 88 | 4.2 |
| OECD Europe | 1,635 | 1,237 | 1,235 | 1,260 | 1,243 | 1,209 | 1,181 | 1,195 | -0.1 |
| OECD Asia | 471 | 782 | 853 | 908 | 947 | 997 | 1,059 | 1,123 | 1.1 |
| Japan | 245 | 393 | 434 | 439 | 446 | 447 | 450 | 459 | 0.2 |
| South Korea | 88 | 177 | 194 | 207 | 235 | 266 | 295 | 332 | 2.1 |
| Australia/New Zealand | 137 | 212 | 225 | 262 | 267 | 284 | 315 | 332 | 1.5 |
| Total OECD | 4,028 | 4,277 | 4,345 | 4,657 | 4,869 | 5,160 | 5,637 | 6,104 | 1.3 |
| Non-OECD | | | | | | | | | |
| Non-OECD Europe and Eurasia | 1,393 | 801 | 828 | 912 | 1,009 | 1,114 | 1,178 | 1,212 | 1.5 |
| Russia | 624 | 410 | 441 | 480 | 505 | 559 | 604 | 633 | 1.4 |
| Other | 770 | 392 | 387 | 432 | 504 | 554 | 574 | 579 | 1.6 |
| Non-OECD Asia | 2,517 | 4,229 | 4,957 | 6,626 | 7,966 | 9,401 | 10,760 | 12,246 | 3.5 |
| China | 1,886 | 3,117 | 3,809 | 5,215 | 6,280 | 7,428 | 8,544 | 9,795 | 3.7 |
| India | 394 | 690 | 741 | 858 | 1,013 | 1,180 | 1,351 | 1,538 | 2.8 |
| Other Non-OECD Asia | 237 | 422 | 407 | 552 | 673 | 792 | 865 | 913 | 3.2 |
| Middle East | 14 | 34 | 35 | 44 | 49 | 53 | 56 | 59 | 2.0 |
| Africa | 271 | 364 | 376 | 485 | 534 | 574 | 633 | 672 | 2.3 |
| Central and South America | 54 | 76 | 77 | 107 | 126 | 144 | 156 | 180 | 3.3 |
| Brazil | 34 | 42 | 43 | 65 | 78 | 89 | 97 | 117 | 4.0 |
| Other Central and South America | 20 | 34 | 34 | 42 | 48 | 56 | 59 | 62 | 2.4 |
| Total Non-OECD | 4,248 | 5,505 | 6,272 | 8,174 | 9,684 | 11,286 | 12,783 | 14,368 | 3.2 |
| Total World | 8,277 | 9,782 | 10,617 | 12,831 | 14,553 | 16,446 | 18,419 | 20,472 | 2.6 |

^aIncludes the 50 States and the District of Columbia.

Sources: **History:** Energy Information Administration (EIA), *International Energy Annual 2004* (May-July 2006), web site www.eia.doe.gov/iea. **Projections:** EIA, *Annual Energy Outlook 2007*, DOE/EIA-0383(2007) (Washington, DC, February 2007), AEO2007 National Energy Modeling System, run HM2007.D112106A, web site www.eia.doe.gov/oiaf/aeo; and System for the Analysis of Global Energy Markets (2007).

