

Table 8.2c Electricity Net Generation: Electric Power Sector by Plant Type, Selected Years, 1989-2010

(Breakout of Table 8.2b; Billion Kilowatthours)

| Year | Fossil Fuels | | | | | Nuclear Electric Power | Hydro-electric Pumped Storage ⁵ | Renewable Energy | | | | | | | Other ¹⁰ | Total |
|---|-------------------|------------------------|--------------------------|--------------------------|----------|------------------------|--|---|-------------------|--------------------|-------------|-----------------------|-------|--------|---------------------|----------|
| | Coal ¹ | Petroleum ² | Natural Gas ³ | Other Gases ⁴ | Total | | | Conventional Hydroelectric Power ⁶ | Biomass | | Geo-thermal | Solar/PV ⁹ | Wind | Total | | |
| | | | | | | | | | Wood ⁷ | Waste ⁸ | | | | | | |
| Electricity-Only Plants ¹¹ | | | | | | | | | | | | | | | | |
| 1989 | 1,554.0 | 158.3 | 266.9 | — | 1,979.3 | 529.4 | (⁶) | 269.2 | 4.2 | 6.9 | 14.6 | 0.3 | 2.1 | 297.3 | — | 2,805.9 |
| 1990 | 1,560.2 | 117.6 | 264.7 | (s) | 1,942.4 | 576.9 | -3.5 | 289.8 | 5.6 | 10.4 | 15.4 | .4 | 2.8 | 324.3 | — | 2,840.0 |
| 1995 | 1,658.0 | 62.0 | 317.4 | (s) | 2,037.4 | 673.4 | -2.7 | 305.4 | 5.9 | 16.3 | 13.4 | .5 | 3.2 | 344.7 | — | 3,052.8 |
| 1996 | 1,742.8 | 68.5 | 272.8 | (s) | 2,084.1 | 674.7 | -3.1 | 341.2 | 6.5 | 16.1 | 14.3 | .5 | 3.2 | 381.8 | — | 3,137.6 |
| 1997 | 1,793.2 | 80.3 | 291.1 | (s) | 2,164.6 | 628.6 | -4.0 | 350.6 | 6.5 | 16.4 | 14.7 | .5 | 3.3 | 392.0 | — | 3,181.3 |
| 1998 | 1,823.0 | 115.7 | 335.9 | .1 | 2,274.6 | 673.7 | -4.5 | 317.9 | 6.6 | 17.0 | 14.8 | .5 | 3.0 | 359.8 | — | 3,303.6 |
| 1999 | 1,832.1 | 104.8 | 356.6 | (s) | 2,293.6 | 728.3 | -6.1 | 314.7 | 7.3 | 17.1 | 14.8 | .5 | 4.5 | 358.8 | — | 3,374.6 |
| 2000 | 1,910.6 | 98.0 | 399.4 | .2 | 2,408.2 | 753.9 | -5.5 | 271.3 | 7.3 | 17.6 | 14.1 | .5 | 5.6 | 316.4 | — | 3,472.9 |
| 2001 | 1,851.8 | 113.2 | 427.0 | (s) | 2,392.0 | 768.8 | -8.8 | 213.7 | 6.6 | 11.3 | 13.7 | .5 | 6.7 | 252.6 | 5.9 | 3,410.5 |
| 2002 | 1,881.2 | 83.3 | 456.8 | .2 | 2,421.5 | 780.1 | -8.7 | 260.5 | 7.3 | 11.2 | 14.5 | .6 | 10.4 | 304.3 | 7.6 | 3,504.8 |
| 2003 | 1,915.8 | 108.5 | 421.2 | .3 | 2,445.7 | 763.7 | -8.5 | 271.5 | 7.4 | 11.9 | 14.4 | .5 | 11.2 | 317.0 | 7.6 | 3,525.5 |
| 2004 | 1,921.1 | 109.4 | 491.2 | .4 | 2,522.0 | 788.5 | -8.5 | 265.1 | 8.1 | 11.8 | 14.8 | .6 | 14.1 | 314.5 | 7.6 | 3,624.1 |
| 2005 | 1,955.5 | 111.2 | 553.2 | (s) | 2,619.9 | 782.0 | -6.6 | 267.0 | 8.5 | 11.7 | 14.7 | .6 | 17.8 | 320.3 | 6.2 | 3,721.8 |
| 2006 | 1,933.7 | 55.2 | 618.0 | (s) | 2,607.0 | 787.2 | -6.6 | 286.2 | 8.3 | 12.5 | 14.6 | .5 | 26.6 | 348.7 | 6.3 | 3,742.7 |
| 2007 | 1,962.0 | 56.9 | 686.3 | .1 | 2,705.3 | 806.4 | -6.9 | 245.8 | 8.7 | 12.9 | 14.6 | .6 | 34.4 | 317.1 | 6.0 | 3,828.0 |
| 2008 | 1,932.0 | 39.3 | 683.3 | (s) | 2,654.6 | 806.2 | -6.3 | 253.1 | 8.6 | 14.0 | R14.8 | .9 | 55.4 | R346.8 | R6.2 | 3,807.4 |
| 2009 | R1,711.9 | R31.9 | R722.7 | .1 | R2,466.6 | R798.9 | R-4.6 | R271.5 | R8.5 | 14.3 | R15.0 | R.9 | R73.9 | R384.0 | R5.8 | R3,650.7 |
| 2010 ^P | 1,799.3 | 31.5 | 776.0 | .1 | 2,606.9 | 807.0 | -4.1 | 255.3 | 9.0 | 14.4 | 15.7 | 1.3 | 94.6 | 390.4 | 6.0 | 3,806.2 |
| Combined-Heat-and-Power Plants ¹² | | | | | | | | | | | | | | | | |
| 1989 | 8.4 | 0.7 | 30.4 | 0.5 | 39.9 | — | — | — | 1.3 | 0.9 | — | — | — | 2.2 | 0.3 | 42.3 |
| 1990 | 11.9 | 1.3 | 44.8 | .6 | 58.7 | — | — | — | 1.4 | 1.1 | — | — | — | 2.6 | (s) | 61.3 |
| 1995 | 28.1 | 6.1 | 101.7 | 1.9 | 137.9 | — | — | — | 1.7 | 1.7 | — | — | — | 3.4 | .2 | 141.5 |
| 1996 | 29.2 | 6.3 | 105.9 | 1.3 | 142.7 | — | — | — | 1.9 | 1.7 | — | — | — | 3.6 | .2 | 146.6 |
| 1997 | 27.6 | 6.2 | 108.5 | 1.5 | 143.7 | — | — | — | 2.2 | 2.1 | — | — | — | 4.3 | .1 | 148.1 |
| 1998 | 27.2 | 6.6 | 113.4 | 2.3 | 149.4 | — | — | — | 2.0 | 2.3 | — | — | — | 4.2 | .2 | 153.8 |
| 1999 | 26.6 | 6.7 | 116.4 | 1.6 | 151.2 | — | — | — | 1.7 | 2.4 | — | — | — | 4.1 | .1 | 155.4 |
| 2000 | 32.5 | 7.2 | 118.6 | 1.8 | 160.2 | — | — | — | 1.6 | 2.7 | — | — | — | 4.3 | .1 | 164.6 |
| 2001 | 31.0 | 6.0 | 128.0 | .6 | 165.5 | — | — | — | 1.7 | 1.7 | — | — | — | 3.4 | .6 | 169.5 |
| 2002 | 29.4 | 6.5 | 150.9 | 1.7 | 188.5 | — | — | — | 1.7 | 2.0 | — | — | — | 3.7 | 1.4 | 193.7 |
| 2003 | 36.9 | 5.2 | 146.1 | 2.4 | 190.6 | — | — | — | 2.1 | 1.9 | — | — | — | 4.0 | 1.1 | 195.7 |
| 2004 | 36.1 | 5.3 | 136.0 | 3.2 | 180.6 | — | — | — | 1.6 | 1.3 | — | — | — | 2.9 | .7 | 184.3 |
| 2005 | 36.5 | 5.3 | 130.7 | 3.8 | 176.2 | — | — | (s) | 2.1 | 1.3 | — | — | — | 3.4 | .7 | 180.4 |
| 2006 | 36.0 | 4.5 | 116.4 | 4.2 | 161.1 | — | — | (s) | 2.0 | 1.4 | — | — | — | 3.5 | .8 | 165.4 |
| 2007 | 36.4 | 4.4 | 128.4 | 3.9 | 173.2 | — | — | (s) | 2.0 | 1.4 | — | — | — | 3.5 | .7 | 177.4 |
| 2008 | 36.9 | 3.6 | 119.0 | 3.2 | 162.7 | — | — | (s) | 2.0 | 1.4 | — | — | — | 3.4 | .8 | 166.9 |
| 2009 | R29.2 | R3.9 | R118.3 | 3.0 | R154.4 | — | — | (s) | R2.3 | R1.7 | — | — | — | R3.9 | R.8 | R159.1 |
| 2010 ^P | 31.9 | 2.9 | 122.3 | 2.8 | 159.9 | — | — | (s) | 2.5 | 1.6 | — | — | — | 4.1 | 1.0 | 165.0 |

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

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

³ Natural gas, plus a small amount of supplemental gaseous fuels.

⁴ Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

⁵ Pumped storage facility production minus energy used for pumping.

⁶ Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

⁷ Wood and wood-derived fuels.

⁸ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

⁹ Solar thermal and photovoltaic (PV) energy.

¹⁰ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

¹¹ Electricity-only plants within the NAICS 22 category whose primary business is to sell electricity to the public. Data also include a small number of electric utility combined-heat-and-power (CHP) plants.

¹² Combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity and heat to the public. Data do not include electric utility CHP plants—these are included under "Electricity-Only Plants."

R=Revised. P=Preliminary. —=No data reported. (s)=Less than 0.05 billion kilowatthours.

Notes: • See Table 8.2d for commercial and industrial CHP and electricity-only data. • See Note 1, "Coverage of Electricity Statistics," and Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding.

Web Pages: • See <http://www.eia.gov/totalenergy/data/annual/#electricity> for all data beginning in 1989.

• For related information, see <http://www.eia.gov/electricity/>.

Sources: • 1989-1997—U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000—EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report—Nonutility." • 2001-2003—EIA, Form EIA-906, "Power Plant Report." • 2004-2007—EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward—EIA, Form EIA-923, "Power Plant Operations Report."