

Table 910. Electricity Net Generation by Sector and Fuel Type: 1990 to 2008 ¹

[3,037.8 represents 3,037,800,000,000 kWh. Data are for fuels consumed to produce electricity. Also includes fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants]

Source and sector	Unit	1990	1995	2000	2005	2007	2008 ¹
Net generation, total	Bil. kWh.	3,037.8	3,353.5	3,802.1	4,055.4	4,156.7	4,110.3
Electric power sector, total	Bil. kWh.	2,901.3	3,194.2	3,637.5	3,902.2	4,005.3	3,966.7
Electricity-only plants ²	Bil. kWh.	2,840.0	3,052.8	3,472.9	3,721.8	3,828.0	3,801.4
Combined-heat-and-power plants ³	Bil. kWh.	61.3	141.5	164.6	180.4	177.4	165.3
Commercial sector ⁴	Bil. kWh.	5.8	8.2	7.9	8.5	8.3	7.9
Industrial sector ⁵	Bil. kWh.	130.7	151.0	156.7	144.7	143.1	135.7
Net generation by source, all sectors:							
Fossil fuels, total	Bil. kWh.	2,103.6	2,293.9	2,692.5	2,909.5	2,992.2	2,928.3
Coal ⁶	Bil. kWh.	1,594.0	1,709.4	1,966.3	2,012.9	2,016.5	1,994.4
Petroleum ⁷	Bil. kWh.	126.5	74.6	111.2	122.2	65.7	45.4
Natural gas ⁸	Bil. kWh.	372.8	496.1	601.0	761.0	896.6	876.9
Other gases ⁹	Bil. kWh.	10.4	13.9	14.0	13.5	13.5	11.6
Nuclear electric power	Bil. kWh.	576.9	673.4	753.9	782.0	806.4	806.2
Hydroelectric pumped storage ¹⁰	Bil. kWh.	-3.5	-2.7	-5.5	-6.6	-6.9	-6.2
Renewable energy, total	Bil. kWh.	357.2	384.8	356.5	357.7	352.7	371.7
Conventional hydroelectric power	Bil. kWh.	292.9	310.8	275.6	270.3	247.5	248.1
Biomass, total	Bil. kWh.	45.8	56.9	60.7	54.3	55.5	55.9
Wood ¹¹	Bil. kWh.	32.5	36.5	37.6	38.9	39.0	38.8
Waste ¹²	Bil. kWh.	13.3	20.4	23.1	15.4	16.5	17.1
Geothermal	Bil. kWh.	15.4	13.4	14.1	14.7	14.6	14.9
Solar ¹³	Bil. kWh.	0.4	0.5	0.5	0.6	0.6	0.8
Wind ¹⁴	Bil. kWh.	2.8	3.2	5.6	17.8	34.4	52.0
Other ¹⁵	Bil. kWh.	3.6	4.1	4.8	12.8	12.2	10.4
Consumption of fuels for electricity generation:							
Coal ⁶	Mil. sh. tons	792.5	860.6	994.9	1,041.4	1,046.8	1,043.6
Petroleum, total	Mil. bbl.	218.8	132.6	195.2	206.8	112.6	79.2
Distillate fuel oil ¹⁵	Mil. bbl.	18.1	19.6	31.7	20.7	15.7	12.4
Residual fuel oil ¹⁶	Mil. bbl.	190.7	95.5	143.4	141.5	63.8	37.6
Other liquids ¹⁷	Mil. bbl.	0.4	0.7	1.4	3.0	2.9	2.3
Petroleum coke	Mil. sh. tons ¹⁸	1.9	3.4	3.7	8.3	6.0	5.4
Natural gas ⁸	Bil. cu. ft.	3,691.6	4,737.9	5,691.5	6,036.4	7,089.3	6,833.4
Other gases ⁹	Tril. Btu.	111.8	132.5	126.0	109.9	114.9	95.4
Biomass	Tril. Btu.	653.5	795.6	825.9	585.3	598.1	595.1
Wood ¹¹	Tril. Btu.	442.3	479.9	495.8	355.3	353.0	345.5
Waste ¹²	Tril. Btu.	211.2	315.7	330.1	230.1	245.1	249.6
Other ¹⁴	Tril. Btu.	36.0	42.0	46.2	173.0	167.9	153.7

¹ Preliminary. ² 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 plants (CHP). ³ Combined-heat-and-power plants within the NAICS 22 category whose primary business is to sell electricity and/or heat to the public. Data do not include electric utility CHP plants—these are included under electricity-only plants. ⁴ Commercial combined-heat-and-power (CHP) and commercial electricity-only plants. ⁵ Industrial combined-heat-and-power (HCP) and industrial electricity-only plants. ⁶ Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel. ⁷ Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil. ⁸ Includes a small amount of supplemental gaseous fuels that cannot be identified separately. ⁹ Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels. ¹⁰ Pumped storage facility production minus energy used for pumping. ¹¹ Wood and wood-derived fuels. ¹² Municipal solid waste from biogenic sources, landfill gas, sludge waste, tires, agricultural by-products, and other biomass. ¹³ Through 2000, also includes nonrenewable waste (municipal solid waste from nonbiogenic sources, and tire-derived fuels). ¹⁴ Solar thermal and photovoltaic energy. ¹⁵ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and beginning 2005, nonrenewable waste (municipal solid waste from nonbiogenic sources, and tire-derived fuels). ¹⁶ Fuel oil numbers 1, 2, and 4. Prior to 2005, electric utility data also include small amounts of kerosene and jet fuel. ¹⁷ Fuel oil numbers 5 and 6. Prior to 2005, electric utility data also include a small amount of fuel oil number 4. ¹⁸ Jet fuel, kerosene, other petroleum liquids, and waste oil.