

**Table 9. Electricity Generating Capacity
(Gigawatts)**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
Electric Power Sector 2/ Power Only 3/														
Coal Steam	305.8	305.2	305.2	305.3	304.3	305.1	305.1	304.6	304.6	304.6	304.9	306.2	308.2	
Other Fossil Steam 4/	131.5	128.6	127.9	125.9	124.3	121.8	120.6	119.4	119.4	119.2	105.8	102.6	101.2	
Combined Cycle	70.3	106.9	119.5	126.0	131.3	131.8	133.0	134.4	136.4	136.5	137.0	138.5	141.8	
Combustion Turbine/Diesel	118.6	124.8	127.9	128.3	128.0	127.6	129.0	130.7	132.7	135.2	134.9	136.3	139.6	
Nuclear Power 5/	98.9	99.2	99.4	99.7	100.0	100.2	100.3	100.4	100.6	100.7	101.1	101.5	101.8	
Pumped Storage	20.7	20.8	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Renewable Sources 6/	90.2	92.0	92.3	93.9	94.3	94.5	94.7	94.9	95.0	95.0	95.2	95.3	95.7	
Distributed Generation (Natural Gas) 7/	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	
Total	836.1	877.5	893.1	900.0	903.1	901.9	903.8	905.5	909.9	912.6	900.3	901.8	910.1	
Combined Heat and Power 8/														
Coal Steam	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.0	5.0	5.0	
Other Fossil Steam 4/	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
Combined Cycle	29.1	31.3	33.7	33.7	33.7	33.7	33.7	33.7	33.5	33.5	33.5	33.5	33.5	
Combustion Turbine/Diesel	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	
Renewable Sources 6/	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
Total	40.6	42.8	45.2	45.2	45.2	45.2	45.2	45.2	45.1	45.1	45.0	45.0	45.0	
Cumulative Planned Additions 9/														
Coal Steam	0.0	0.0	0.5	0.6	1.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
Other Fossil Steam 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Combined Cycle	0.0	0.0	14.9	21.5	26.7	27.2	28.3	28.3	28.3	28.3	28.3	28.3	28.3	
Combustion Turbine/Diesel	0.0	0.0	3.1	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Renewable Sources 6/	0.0	0.0	0.3	1.9	2.1	2.3	2.5	2.7	2.7	2.7	2.8	2.8	2.8	
Distributed Generation 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total	0.0	0.0	18.9	27.8	33.7	35.2	36.4	36.6	36.7	36.7	36.7	36.7	36.7	
Cumulative Unplanned Additions 9/														
Coal Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.1	4.1	
Other Fossil Steam 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Combined Cycle	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	3.5	3.7	4.3	5.9	9.2	
Combustion Turbine/Diesel	0.0	0.0	0.0	0.0	0.0	0.2	1.7	3.6	5.9	8.5	11.0	12.4	15.7	
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Renewable Sources 6/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4	0.8	
Distributed Generation 7/	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	
Total	0.0	0.0	0.0	0.0	0.0	0.3	2.1	5.5	9.9	12.7	17.0	21.5	30.7	
Cumulative Total Additions	0.0	0.0	18.9	27.8	33.7	35.5	38.5	42.1	46.6	49.4	53.7	58.2	67.4	
Cumulative Retirements 10/														
Coal Steam	0.0	0.0	0.5	0.5	1.8	1.9	1.9	2.4	2.4	2.4	3.0	3.0	3.0	

**Table 9. Electricity Generating Capacity
(Gigawatts)**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Other Fossil Steam 4/	0.0	0.0	0.6	2.8	4.3	6.9	8.0	9.2	9.3	9.4	22.8	26.0	27.4
Combined Cycle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.4	0.4
Combustion Turbine/Diesel	0.0	0.0	0.0	0.3	0.7	1.3	1.3	1.6	1.9	2.0	4.8	4.8	4.8
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewable Sources 6/	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total	0.0	0.0	1.2	3.7	6.9	10.1	11.4	13.3	13.8	14.0	30.9	34.3	35.6
Total Electric Power Sector Capacity	876.7	920.3	938.3	945.2	948.3	947.1	949.0	950.7	954.9	957.6	945.3	946.8	955.1
Commercial and Industrial Generators 11/													
Coal	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Petroleum	1.0	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Natural Gas	14.2	14.4	15.2	15.4	15.7	16.0	16.4	16.9	17.4	17.8	18.2	18.7	19.2
Other Gaseous Fuels	1.8	1.8	1.8	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6
Renewable Sources 6/	5.4	5.4	5.7	6.0	6.1	6.3	6.5	6.7	6.8	6.9	7.0	7.1	7.2
Other	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Total	27.2	27.1	29.0	29.6	29.7	30.1	30.8	31.4	32.1	32.6	33.1	33.7	34.3
Cumulative Capacity Additions 9/	0.0	0.0	1.9	2.5	2.6	3.0	3.7	4.3	5.0	5.5	6.0	6.6	7.2

**Table 9. Electricity Generating Capacity
(Gigawatts)**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Electric Power Sector 2/ Power Only 3/												
Coal Steam	310.6	313.8	317.5	322.1	327.2	334.6	343.6	354.4	367.3	378.1	389.2	1.1%
Other Fossil Steam 4/	101.1	101.1	100.5	100.4	100.3	100.0	100.0	99.8	99.8	99.8	99.4	-1.2%
Combined Cycle	147.9	155.1	161.0	168.2	172.1	176.8	179.4	182.1	184.6	187.6	189.4	2.6%
Combustion Turbine/Diesel	141.8	146.9	152.3	158.6	163.9	168.0	170.0	173.7	176.5	183.8	188.6	1.9%
Nuclear Power 5/	102.2	102.4	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	0.2%
Pumped Storage	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	0.0%
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Renewable Sources 6/	96.3	97.0	97.3	97.7	98.3	99.0	99.6	100.1	100.7	101.8	102.9	0.5%
Distributed Generation (Natural Gas) 7/	1.1	1.5	1.8	2.2	2.6	3.1	3.5	4.2	5.1	6.0	6.9	N/A
Total	921.9	938.6	954.0	972.6	987.8	1005.0	1019.7	1037.8	1057.5	1080.8	1100.0	1.0%
Combined Heat and Power 8/												
Coal Steam	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.0%
Other Fossil Steam 4/	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	N/A
Combined Cycle	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	0.3%
Combustion Turbine/Diesel	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	0.0%
Renewable Sources 6/	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	N/A
Total	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	0.2%
Cumulative Planned Additions 9/												
Coal Steam	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	N/A
Other Fossil Steam 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Combined Cycle	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	N/A
Combustion Turbine/Diesel	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	N/A
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Renewable Sources 6/	2.8	2.8	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0	N/A
Distributed Generation 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	36.8	36.8	36.8	36.8	36.8	36.9	36.9	36.9	36.9	36.9	37.0	N/A
Cumulative Unplanned Additions 9/												
Coal Steam	6.5	9.7	13.5	18.0	23.1	30.6	39.5	50.3	63.2	74.1	85.1	N/A
Other Fossil Steam 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Combined Cycle	15.3	22.5	28.4	35.6	39.5	44.2	46.8	49.5	52.0	55.0	56.8	N/A
Combustion Turbine/Diesel	19.7	25.3	30.8	37.3	42.9	47.4	50.0	53.9	56.7	64.7	69.9	N/A
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Renewable Sources 6/	1.3	2.0	2.3	2.7	3.2	4.0	4.5	5.0	5.5	6.6	7.7	N/A
Distributed Generation 7/	1.1	1.5	1.8	2.2	2.6	3.1	3.5	4.2	5.1	6.0	6.9	N/A
Total	44.0	61.0	76.8	95.7	111.3	129.1	144.3	162.9	182.5	206.4	226.4	N/A
Cumulative Total Additions	80.8	97.7	113.6	132.5	148.1	166.0	181.2	199.8	219.4	243.4	263.4	N/A
Cumulative Retirements 10/												
Coal Steam	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	N/A

**Table 9. Electricity Generating Capacity
(Gigawatts)**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003- 2025
Other Fossil Steam 4/ Combined Cycle	27.5	27.5	28.1	28.2	28.4	28.6	28.6	28.8	28.8	28.8	29.2	N/A
Combustion Turbine/Diesel	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	N/A
Nuclear Power	6.6	7.0	7.2	7.3	7.7	8.1	8.6	8.9	8.9	9.5	9.9	N/A
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Renewable Sources 6/	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A
Total	37.6	38.0	38.8	39.0	39.5	40.1	40.7	41.2	41.2	41.8	42.6	N/A
Total Electric Power Sector Capacity	966.9	983.6	999.0	1017.6	1032.8	1050.0	1064.7	1082.8	1102.4	1125.8	1145.0	1.0%
Commercial and Industrial Generators 11/												
Coal	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0%
Petroleum	1.5	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.8	1.7	1.7	4.2%
Natural Gas	19.7	20.2	20.8	21.4	22.1	22.8	23.5	24.3	25.1	25.8	26.7	2.9%
Other Gaseous Fuels	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	-0.3%
Renewable Sources 6/	7.3	7.4	7.6	7.8	8.0	8.3	8.5	8.8	9.2	9.5	9.9	2.7%
Other	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	N/A
Total	34.9	35.5	36.3	37.2	38.2	39.2	40.3	41.3	42.4	43.6	44.8	2.3%
Cumulative Capacity Additions 9/	7.8	8.4	9.2	10.1	11.1	12.1	13.2	14.2	15.3	16.5	17.7	N/A

**Table 9. Electricity Generating Capacity
(Gigawatts)**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

2/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public.

3/ Includes plants that only produce electricity. Includes capacity increases (uprates) at existing units.

4/ Includes oil-, gas-, and dual-fired capacity.

5/ Nuclear capacity reflects operating capacity of existing units, including 3.5 gigawatts of uprates through 2025.

6/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, landfill gas, other biomass, solar and wind power. Facilities co-firing biomass and coal are classified as coal.

7/ Primarily peak-load capacity fueled by natural gas.

8/ Includes combined heat and power plants whose primary business is to sell electricity and heat to the public (i.e., those that report NAICS code 22).

9/ Cumulative additions after December 31, 2003.

10/ Cumulative retirements after December 31, 2003.

11/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

13/ See Table 16 for more detail.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports.

Sources: 2002 and 2003 electric generating capacity and projected planned additions: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.