

Table 9. Electricity Generating Capacity
(gigawatts)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Electric Power Sector 2/													
Power Only 3/													
Coal Steam	306.3	306.0	306.0	307.0	307.3	311.2	316.2	316.5	316.0	314.7	315.6	318.9	322.5
Other Fossil Steam 4/	123.3	120.8	119.4	119.4	119.0	119.0	119.0	118.9	90.6	89.4	89.3	89.3	89.1
Combined Cycle	133.0	144.2	152.2	157.0	159.6	160.3	160.9	161.7	161.7	161.7	162.1	163.2	164.7
Combustion Turbine/Diesel	128.1	130.3	131.6	133.2	134.2	134.3	134.2	134.2	115.2	115.3	116.6	118.0	119.5
Nuclear Power 5/	99.6	100.0	100.0	100.1	100.2	100.3	100.5	100.8	101.2	101.5	101.8	102.5	104.7
Pumped Storage	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
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/	94.4	97.2	100.2	104.7	104.9	105.1	105.3	105.5	105.6	106.0	106.3	106.6	106.8
Distributed Generation (Natural Gas) 7/	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7
Total	905.3	919.2	930.2	942.2	946.0	951.1	956.9	958.6	911.5	909.7	912.8	919.7	928.8
Combined Heat and Power 8/													
Coal Steam	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.2	4.2	4.2	4.2
Other Fossil Steam 4/	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Combined Cycle	32.5	32.5	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
Combustion Turbine/Diesel	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Renewable Sources 6/	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Total	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.3	40.3	40.3	40.3
Cumulative Planned Additions 9/													
Coal Steam	0.0	0.0	0.6	2.0	2.5	6.4	8.5	8.9	9.9	9.9	9.9	9.9	9.9
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	8.0	12.8	15.4	16.2	16.7	17.6	17.6	17.6	17.6	17.6	17.6
Combustion Turbine/Diesel	0.0	0.0	1.5	3.1	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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	3.0	7.5	7.7	7.9	8.1	8.3	8.4	8.6	8.8	8.9	8.9
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	13.1	25.4	29.2	34.2	37.0	38.5	39.7	39.8	40.0	40.1	40.2
Cumulative Unplanned Additions 9/													
Coal Steam	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.1	4.9	8.1	11.8
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	3.0
Combustion Turbine/Diesel	0.0	0.0	0.0	0.0	0.6	0.7	0.7	0.8	0.9	1.1	2.4	3.8	5.3
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.5
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	0.0	0.2	0.3	0.4	0.7
Distributed Generation 7/	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7
Total	0.0	0.0	0.0	0.0	0.7	0.8	3.9	4.0	4.1	4.7	8.3	14.8	24.0
Cumulative Electric Power Sector Additions	0.0	0.0	13.1	25.4	29.9	35.0	40.9	42.6	43.8	44.5	48.3	55.0	64.1

Table 9. Electricity Generating Capacity
(gigawatts)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Cumulative Retirements 10/													
Coal Steam	0.0	0.0	0.5	0.9	1.2	1.2	1.2	1.4	2.9	4.8	5.6	5.6	5.7
Other Fossil Steam 4/	0.0	0.0	1.4	1.4	1.8	1.8	1.8	1.9	30.1	31.4	31.5	31.5	31.7
Combined Cycle	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
Combustion Turbine/Diesel	0.0	0.0	0.2	0.2	0.3	0.5	0.6	0.7	19.8	19.8	19.8	19.8	19.8
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	0.0	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	2.2	2.6	3.4	3.5	3.7	4.0	52.9	56.1	57.0	57.0	57.3
Total Electric Power Sector Capacity	946.3	960.1	971.1	983.0	986.8	992.0	997.8	999.5	952.3	950.0	953.2	960.0	969.2
End-Use Generators 11/													
Coal	4.1	4.2	4.2	4.1	4.1	4.1	4.1	5.1	5.2	5.2	5.6	5.6	5.6
Petroleum	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.8	1.8	1.8	1.8	1.8
Natural Gas	13.9	13.5	13.8	15.5	15.9	16.4	16.9	17.5	17.9	18.4	19.0	19.5	20.0
Other Gaseous Fuels	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Renewable Sources 6/	5.8	5.6	5.8	6.0	6.1	6.2	6.4	6.5	6.7	6.8	6.9	7.0	7.2
Other	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Total	28.2	27.5	28.0	29.8	30.5	31.0	31.7	33.6	34.3	35.0	36.1	36.7	37.3
Cumulative Capacity Additions 9/	0.0	0.0	0.5	2.3	3.0	3.5	4.2	6.1	6.8	7.5	8.6	9.2	9.8

Table 9. Electricity Generating Capacity
(gigawatts)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005-2030
Electric Power Sector 2/															
Power Only 3/															
Coal Steam	326.5	330.2	336.1	343.0	351.3	359.5	369.7	379.6	389.5	400.3	411.5	422.7	434.0	445.8	1.5%
Other Fossil Steam 4/	88.8	88.8	88.8	88.8	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	87.2	87.0	-1.3%
Combined Cycle	165.9	167.3	168.8	171.4	173.2	174.9	176.2	177.6	178.4	178.8	179.2	179.2	179.2	179.2	0.9%
Combustion Turbine/Diesel	120.4	121.4	122.6	124.3	126.4	128.6	129.7	131.0	133.0	135.6	138.9	142.6	147.0	152.3	0.6%
Nuclear Power 5/	107.5	110.2	111.7	111.7	111.7	111.7	111.7	111.7	111.7	111.7	112.7	113.6	114.4	112.6	0.5%
Pumped Storage	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	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	0.0	0.0	0.0	N/A
Renewable Sources 6/	106.9	107.1	107.2	107.3	107.4	107.7	107.7	107.9	108.2	108.4	108.6	108.9	109.0	109.6	0.5%
Distributed Generation (Natural Gas) 7/	0.9	1.2	1.5	2.1	2.7	3.2	3.9	4.7	5.5	6.8	8.1	9.4	10.4	11.4	N/A
Total	937.7	947.1	957.5	969.6	981.8	994.7	1008.2	1021.7	1035.4	1050.7	1068.1	1085.5	1101.9	1118.6	0.8%
Combined Heat and Power 8/															
Coal Steam	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	-0.5%
Other Fossil Steam 4/	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	N/A
Combined Cycle	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	0.0%
Combustion Turbine/Diesel	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.0%
Renewable Sources 6/	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2%
Total	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	-0.1%
Cumulative Planned Additions 9/															
Coal Steam	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	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	0.0	0.0	0.0	N/A
Combined Cycle	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	N/A
Combustion Turbine/Diesel	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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	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	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	0.0	0.0	0.0	N/A
Renewable Sources 6/	9.0	9.0	9.0	9.0	9.0	9.1	9.1	9.1	9.1	9.2	9.2	9.2	9.2	9.2	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	0.0	0.0	0.0	N/A
Total	40.2	40.2	40.2	40.2	40.3	40.3	40.3	40.3	40.4	40.4	40.4	40.4	40.4	40.5	N/A
Cumulative Unplanned Additions 9/															
Coal Steam	15.8	19.5	25.4	32.4	40.6	48.8	59.1	69.0	78.8	89.7	100.9	112.0	123.4	135.1	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	0.0	0.0	0.0	N/A
Combined Cycle	4.2	5.6	7.1	9.7	11.4	13.1	14.5	15.9	16.6	17.1	17.5	17.5	17.5	17.5	N/A
Combustion Turbine/Diesel	6.1	7.2	8.4	10.1	12.2	14.4	15.4	16.8	18.8	21.3	24.6	28.4	32.7	38.0	N/A
Nuclear Power	4.8	7.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.9	10.9	11.7	12.5	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	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	0.0	0.0	0.0	N/A
Renewable Sources 6/	0.8	0.9	1.0	1.1	1.1	1.4	1.4	1.6	1.9	2.0	2.2	2.5	2.6	3.2	N/A
Distributed Generation 7/	0.9	1.2	1.5	2.1	2.7	3.2	3.9	4.7	5.5	6.8	8.1	9.4	10.4	11.4	N/A
Total	32.6	41.9	52.3	64.4	77.0	89.9	103.4	116.9	130.6	145.9	163.3	180.6	198.2	217.7	N/A
Cumulative Electric Power Sector Additions	72.8	82.1	92.6	104.7	117.2	130.2	143.7	157.3	171.0	186.3	203.7	221.1	238.7	258.2	N/A

Table 9. Electricity Generating Capacity
(gigawatts)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2005- 2030
Cumulative Retirements 10/															
Coal Steam	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	N/A
Other Fossil Steam 4/	32.0	32.0	32.0	32.0	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	33.6	33.8	N/A
Combined Cycle	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A
Combustion Turbine/Diesel	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	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	0.0	0.0	2.6	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	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	0.0	0.0	0.0	N/A
Renewable Sources 6/	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	0.0	N/A
Total	57.6	57.6	57.6	57.6	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	59.2	62.0	N/A
Total Electric Power Sector Capacity	978.1	987.4	997.9	1010.0	1022.1	1035.1	1048.5	1062.1	1075.8	1091.1	1108.4	1125.8	1142.3	1159.0	0.8%
End-Use Generators 11/															
Coal	5.8	6.1	6.4	6.6	6.9	8.2	8.4	9.9	12.2	13.9	13.8	14.7	15.0	15.4	5.4%
Petroleum	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.7%
Natural Gas	20.7	21.3	21.9	22.8	23.5	24.2	25.0	25.7	26.4	27.3	28.0	28.7	29.7	30.4	3.3%
Other Gaseous Fuels	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.4%
Renewable Sources 6/	7.3	7.4	7.5	7.7	7.8	8.0	8.2	8.4	8.7	9.0	9.3	9.7	10.2	10.7	2.6%
Other	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	N/A
Total	38.4	39.4	40.4	41.7	42.8	44.9	46.2	48.7	52.0	54.8	55.9	57.9	59.6	61.3	3.3%
Cumulative Capacity Additions 9/	10.9	11.9	12.9	14.2	15.3	17.4	18.7	21.2	24.5	27.3	28.4	30.4	32.1	33.8	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 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 includes 2.7 gigawatts of uprates through 2030.

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 North American Industry Classification System code 22).

9/ Cumulative additions after December 31, 2005.

10/ Cumulative retirements after December 31, 2005.

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.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2004 and 2005 are model results and may differ slightly from official EIA data reports.

Sources: 2004 and 2005 capacity and projected planned additions: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report" (preliminary).

Projections: EIA, AEO2007 National Energy Modeling System run aeo2007.d112106a.