

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Electric Power Sector 2/											
Power Only 3/											
Coal Steam	305.5	305.7	305.4	304.6	303.7	302.6	301.0	301.3	302.7	305.1	306.6
Other Fossil Steam 4/	133.8	132.5	130.1	129.8	127.7	126.0	123.4	122.2	110.3	105.0	103.6
Combined Cycle	43.0	81.0	114.5	120.7	121.4	121.4	121.4	121.8	123.0	127.1	131.7
Combustion Turbine/Diesel	97.3	123.5	129.8	130.3	134.3	133.9	133.4	134.3	128.0	131.1	134.1
Nuclear Power 5/	98.2	98.7	99.2	99.5	99.8	100.1	100.2	100.4	100.4	100.6	100.7
Pumped Storage	19.9	20.2	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Renewable Sources 6/	90.4	91.4	93.4	93.6	93.9	94.7	95.5	96.0	96.5	97.1	97.9
Distributed Generation (Natural Gas) 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.7
Total	788.0	853.1	892.6	898.7	901.1	899.1	895.4	896.5	881.6	886.8	895.7
Combined Heat and Power 8/											
Coal Steam	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.1	5.1
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
Combined Cycle	22.5	29.4	32.3	33.1	33.1	33.1	33.1	33.1	33.1	32.9	32.9
Combustion Turbine/Diesel	4.7	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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
Total	33.8	41.4	44.3	45.0	45.0	45.0	45.0	45.0	45.0	44.8	44.8
Total Electric Power Industry	821.8	894.5	936.9	943.8	946.2	944.2	940.5	941.6	926.5	931.7	940.5
Cumulative Planned Additions 9/											
Coal Steam	0.0	0.0	0.1	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1
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
Combined Cycle	0.0	0.0	35.8	42.7	43.5	43.5	43.5	43.5	43.5	43.5	43.5
Combustion Turbine/Diesel	0.0	0.0	7.3	7.5	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Nuclear Power	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
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Renewable Sources 6/	0.0	0.0	1.9	2.1	2.4	3.0	3.7	4.0	4.2	4.3	4.4
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
Total	0.0	0.0	45.1	52.9	54.5	55.7	56.4	56.8	56.9	57.1	57.1
Cumulative Unplanned Additions 9/											
Coal Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	3.2	5.7	7.1
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
Combined Cycle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.5	6.6	11.2
Combustion Turbine/Diesel	0.0	0.0	0.0	0.3	4.0	4.0	4.1	5.1	6.6	10.5	13.9
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	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
Renewable Sources 6/	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	1.1	1.9

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(Gigawatts)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Distributed Generation 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.7
Total	0.0	0.0	0.0	0.3	4.0	4.0	4.7	7.0	13.2	24.3	34.8
Cumulative Total Additions	0.0	0.0	45.1	53.3	58.6	59.7	61.1	63.8	70.1	81.4	91.9
Cumulative Retirements 10/											
Coal Steam	0.0	0.0	0.4	1.7	2.7	4.2	6.3	6.7	7.5	7.5	7.5
Other Fossil Steam 4/	0.0	0.0	0.5	0.8	2.9	4.6	7.2	8.4	20.3	25.6	27.0
Combined Cycle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	1.1
Combustion Turbine/Diesel	0.0	0.0	0.3	0.3	0.6	1.0	1.6	1.6	9.4	10.2	10.7
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	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
Renewable Sources 6/	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total	0.0	0.0	1.2	3.0	6.3	9.9	15.1	16.8	38.3	44.6	46.4
End-Use Sector Generators											
Combined Heat and Power 11/											
Coal	4.1	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Petroleum	1.0	1.0	1.0	1.0	1.2	1.3	1.3	1.4	1.5	1.6	1.7
Natural Gas	13.9	14.1	14.2	14.6	15.1	15.7	16.1	16.6	17.2	17.8	18.3
Other Gaseous Fuels	1.6	1.8	1.8	1.8	2.0	2.1	2.1	2.1	2.2	2.2	2.2
Renewable Sources 6/	4.0	4.2	4.2	4.5	4.8	5.0	5.1	5.2	5.4	5.6	5.8
Other	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total	24.8	25.5	25.7	26.3	27.6	28.5	29.1	29.8	30.7	31.7	32.6
Other End-Use Generators 12/											
Renewable Sources 13/	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4
Cumulative Additions 9/											
Combined Heat and Power 11/	0.0	0.0	0.2	0.8	2.1	3.1	3.6	4.3	5.2	6.2	7.1
Other End-Use Generators 12/	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.4

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Electric Power Sector 2/											
Power Only 3/											
Coal Steam	308.3	310.5	312.9	316.4	320.6	326.0	331.2	339.1	348.4	358.9	371.8
Other Fossil Steam 4/	102.6	102.2	101.8	101.6	101.6	101.0	100.5	100.3	100.0	98.8	98.1
Combined Cycle	134.9	142.5	151.3	158.8	162.8	170.4	174.5	179.8	184.4	190.4	193.8
Combustion Turbine/Diesel	136.9	142.6	147.2	152.7	155.4	159.2	160.9	162.4	163.9	166.8	170.8
Nuclear Power 5/	101.0	101.4	101.8	102.1	102.4	102.6	102.6	102.6	102.6	102.6	102.6
Pumped Storage	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
Fuel Cells	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Renewable Sources 6/	98.4	99.4	100.0	101.0	101.4	102.1	102.7	103.6	105.7	107.1	107.4
Distributed Generation (Natural Gas) 7/	0.9	1.2	1.7	2.4	3.3	4.4	5.2	6.4	7.6	8.8	9.8
Total	903.4	920.0	937.1	955.3	967.8	986.0	998.1	1014.6	1032.9	1053.8	1074.7
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	5.1
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
Combined Cycle	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
Combustion Turbine/Diesel	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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
Total	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
Total Electric Power Industry	948.3	964.8	981.9	1000.2	1012.6	1030.8	1042.9	1059.4	1077.7	1098.6	1119.5
Cumulative Planned Additions 9/											
Coal Steam	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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
Combined Cycle	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
Combustion Turbine/Diesel	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Nuclear Power	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
Fuel Cells	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Renewable Sources 6/	4.4	4.5	4.6	4.6	4.6	4.7	4.7	4.7	4.7	4.8	4.8
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
Total	57.2	57.2	57.3	57.4	57.4	57.4	57.4	57.4	57.5	57.5	57.5
Cumulative Unplanned Additions 9/											
Coal Steam	8.9	11.0	13.9	17.5	21.7	27.0	33.6	41.4	50.7	62.1	75.0
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
Combined Cycle	14.4	22.0	30.8	38.3	42.3	49.9	54.1	59.4	64.0	69.9	73.3
Combustion Turbine/Diesel	16.9	22.6	27.3	32.8	35.5	39.4	41.0	43.2	46.0	50.0	54.0
Nuclear Power	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
Fuel Cells	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/	2.3	3.2	3.8	4.6	5.1	5.7	6.3	7.3	9.3	10.6	10.9

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Distributed Generation 7/ Total	0.9	1.2	1.7	2.4	3.3	4.4	5.2	6.4	7.6	8.8	9.8
Cumulative Total Additions	100.6	117.2	134.8	153.0	165.3	183.8	197.6	215.1	235.0	258.9	280.6
Cumulative Retirements 10/ Coal Steam	7.5	7.5	8.0	8.0	8.0	8.0	9.3	9.3	9.3	10.1	10.1
Other Fossil Steam 4/ Combined Cycle	28.0	28.4	28.8	29.0	29.0	29.6	30.1	30.3	30.6	31.8	32.5
Combustion Turbine/Diesel	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Nuclear Power	10.9	10.9	10.9	11.0	11.0	11.0	11.0	11.7	13.0	14.0	14.1
Pumped Storage	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
Renewable Sources 6/ Total	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	47.6	48.1	48.9	49.3	49.3	49.9	51.6	52.6	54.2	57.2	58.0
End-Use Sector Generators											
Combined Heat and Power 11/ Coal	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Petroleum	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.1	2.2	2.2	2.2
Natural Gas	18.9	19.4	19.9	20.4	20.9	21.5	22.2	22.9	23.7	24.4	25.1
Other Gaseous Fuels	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6
Renewable Sources 6/ Other	6.1	6.3	6.5	6.7	6.9	7.0	7.2	7.4	7.5	7.6	7.8
Total	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	33.5	34.3	35.1	35.8	36.6	37.5	38.4	39.4	40.5	41.3	42.2
Other End-Use Generators 12/ Renewable Sources 13/	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.7	1.8
Cumulative Additions 9/ Combined Heat and Power 11/ Other End-Use Generators 12/	8.0	8.8	9.6	10.4	11.1	12.0	13.0	13.9	15.0	15.8	16.7
	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7

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

	2023	2024	2025	2002- 2025
Electric Power Sector 2/				
Power Only 3/				
Coal Steam	387.2	395.4	407.2	1.3%
Other Fossil Steam 4/	97.6	97.1	95.4	-1.4%
Combined Cycle	197.3	199.1	202.3	4.1%
Combustion Turbine/Diesel	172.6	174.2	175.0	1.5%
Nuclear Power 5/	102.6	102.6	102.6	0.2%
Pumped Storage	20.3	20.3	20.3	0.0%
Fuel Cells	0.1	0.1	0.1	N/A
Renewable Sources 6/	107.7	108.8	109.9	0.8%
Distributed Generation (Natural Gas) 7/	10.7	11.6	12.4	N/A
Total	1096.1	1109.1	1125.1	1.2%
Combined Heat and Power 8/				
Coal Steam	5.1	5.1	5.1	-0.1%
Other Fossil Steam 4/	1.1	1.1	1.1	N/A
Combined Cycle	32.9	32.9	32.9	0.5%
Combustion Turbine/Diesel	5.4	5.4	5.4	0.0%
Renewable Sources 6/	0.3	0.3	0.3	N/A
Total	44.8	44.8	44.8	0.3%
Total Electric Power Industry	1140.9	1153.9	1169.9	1.2%
Cumulative Planned Additions 9/				
Coal Steam	1.1	1.1	1.1	N/A
Other Fossil Steam 4/	0.0	0.0	0.0	N/A
Combined Cycle	43.5	43.5	43.5	N/A
Combustion Turbine/Diesel	8.1	8.1	8.1	N/A
Nuclear Power	0.0	0.0	0.0	N/A
Pumped Storage	0.0	0.0	0.0	N/A
Fuel Cells	0.1	0.1	0.1	N/A
Renewable Sources 6/	4.8	4.8	4.8	N/A
Distributed Generation 7/	0.0	0.0	0.0	N/A
Total	57.5	57.6	57.6	N/A
Cumulative Unplanned Additions 9/				
Coal Steam	90.4	98.5	110.6	N/A
Other Fossil Steam 4/	0.0	0.0	0.0	N/A
Combined Cycle	76.8	78.7	81.9	N/A
Combustion Turbine/Diesel	55.8	57.4	59.1	N/A
Nuclear Power	0.0	0.0	0.0	N/A
Pumped Storage	0.0	0.0	0.0	N/A
Fuel Cells	0.0	0.0	0.0	N/A
Renewable Sources 6/	11.2	12.3	13.3	N/A

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

	2023	2024	2025	2002- 2025
Distributed Generation 7/ Total	10.7	11.6	12.4	N/A
Cumulative Total Additions	302.5	315.9	334.8	N/A
Cumulative Retirements 10/ Coal Steam	10.1	10.1	10.4	N/A
Other Fossil Steam 4/ Combined Cycle	33.0	33.5	35.2	N/A
Combustion Turbine/Diesel	1.1	1.1	1.1	N/A
Nuclear Power	14.1	14.1	14.9	N/A
Pumped Storage	0.0	0.0	0.0	N/A
Fuel Cells	0.0	0.0	0.0	N/A
Renewable Sources 6/ Total	0.1	0.1	0.1	N/A
	58.4	59.0	61.8	N/A
End-Use Sector Generators				
Combined Heat and Power 11/ Coal	4.1	4.1	4.1	0.0%
Petroleum	2.2	2.3	2.3	3.8%
Natural Gas	25.8	26.7	27.6	3.0%
Other Gaseous Fuels	2.6	2.7	2.7	1.8%
Renewable Sources 6/ Other	8.0	8.1	8.3	3.0%
Total	0.3	0.3	0.3	N/A
	43.2	44.2	45.3	2.5%
Other End-Use Generators 12/ Renewable Sources 13/	1.9	2.0	2.1	3.1%
Cumulative Additions 9/ Combined Heat and Power 11/ Other End-Use Generators 12/	17.7	18.7	19.8	N/A
	0.8	1.0	1.1	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 3.9 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, 2002.

10/ Cumulative retirements after December 31, 2002.

11/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors.

12/ Other end-use generators include 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 17 for more detail.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 electric generating capacity and projected planned additions: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," 2002 (preliminary). Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.