

Report Scenario	Annual Energy Outlook 2010	Reference case																												
Datekey	aao2010r.d111809a	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Release Date	December 2009																													

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

Net Summer Capacity 1/	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2008-2035		
<b>Electric Power Sector 2/</b>																																
<b>Power Only 3/</b>																																
Oil and Natural Gas Steam 4/	304.4	303.8	308.3	312.9	314.2	317.6	315.2	315.2	315.6	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	316.8	317.6	318.7	319.4	320.1	321.1	322.0	324.5	0.2%	
Combined Cycle	116.2	115.5	114.9	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	-1.1%
Combustion Turbine/Diesel	150.7	156.4	164.4	165.0	168.8	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	1.1%
Nuclear Power 5/	130.3	131.7	134.4	135.2	138.3	138.5	136.0	131.7	130.3	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	1.0%
Pumped Storage	100.5	100.6	101.2	101.6	101.8	102.1	102.5	104.1	104.5	105.0	106.7	108.2	109.6	110.9	110.9	110.9	110.9	110.9	110.9	110.9	110.9	110.9	110.9	110.9	110.9	110.9	110.9	110.9	112.1	112.9	0.4%	
Fuel Cells	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	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	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	0.0	0.0	0.0	0.0%	
Distributed Generation (Natural Gas) 7/	100.5	109.4	116.0	123.7	134.0	144.4	152.4	153.9	154.0	154.1	154.1	154.1	154.2	154.2	154.2	154.2	154.2	154.2	154.2	154.2	154.2	154.2	157.5	157.5	159.5	162.4	163.8	165.1	167.8	1.6%		
<b>Total</b>	<b>924.5</b>	<b>939.2</b>	<b>961.0</b>	<b>974.3</b>	<b>990.5</b>	<b>1006.2</b>	<b>997.4</b>	<b>989.3</b>	<b>985.2</b>	<b>982.4</b>	<b>984.2</b>	<b>985.8</b>	<b>988.4</b>	<b>991.5</b>	<b>993.7</b>	<b>997.1</b>	<b>1000.9</b>	<b>1005.5</b>	<b>1013.0</b>	<b>1021.9</b>	<b>1027.4</b>	<b>1035.9</b>	<b>1043.1</b>	<b>1050.7</b>	<b>1058.7</b>	<b>1067.1</b>	<b>1075.9</b>	<b>1085.8</b>	<b>1097.1</b>	<b>0.8%</b>		
<b>Combined Heat and Power 8/</b>																																
Oil and Natural Gas Steam 4/	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	0.0%	
Combined Cycle	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	0.4	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	0.4	0.4	0.0%	
Combustion Turbine/Diesel	31.8	31.7	31.7	31.7	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	0.1%	
Renewable Sources 6/	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	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	0.7	0.7	0.7	0.7	0.0%	
<b>Total</b>	<b>40.3</b>	<b>40.3</b>	<b>40.3</b>	<b>40.3</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>40.8</b>	<b>0.0%</b>	
<b>Cumulative Planned Additions 9/</b>																																
Coal	0.0	0.0	4.8	9.8	11.9	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	--	
Oil and Natural Gas 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	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	0.0	0.0	--	
Combined Cycle	0.0	0.0	8.0	8.6	11.3	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	--	
Combustion Turbine/Diesel	0.0	0.0	2.9	3.6	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	--	
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	--	
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	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	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	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	0.0	0.0	0.0	--	
Renewable Sources 6/	0.0	0.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	--	
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	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	0.0	0.0	--	
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>16.7</b>	<b>23.0</b>	<b>28.4</b>	<b>33.8</b>	<b>33.8</b>	<b>35.0</b>	<b>35.0</b>	<b>35.1</b>	<b>35.1</b>	<b>35.1</b>	<b>35.1</b>	<b>35.1</b>	<b>35.1</b>	<b>35.2</b>	<b>35.2</b>	<b>35.2</b>	<b>35.2</b>	<b>35.2</b>	<b>35.3</b>	<b>35.3</b>	<b>35.3</b>	<b>35.3</b>	<b>35.3</b>	<b>35.4</b>	<b>35.4</b>	<b>35.4</b>	<b>35.4</b>	<b>35.4</b>	--	
<b>Cumulative Unplanned Additions 9/</b>																																
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.1	3.9	5.0	5.7	6.4	7.3	8.3	10.8	--		
Oil and Natural Gas 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	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	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	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	--	
Combustion Turbine/Diesel	0.0	0.0	0.0	0.4	3.2	3.4	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	25.0	25.1	25.6	29.8	34.6	39.5	44.2	46.3	--		
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6	3.9	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	--	
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	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	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	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	0.0	0.0	0.0	--	
Renewable Sources 6/	0.0	0.0	5.7	13.3	23.7	34.0	42.1	43.5	43.6	43.6	43.6	43.6	43.6	43.7	43.7	44.0	44.3	44.8	45.7	45.8	46.7	46.9	47.7	48.8	50.1	51.6	53.1	54.3	57.0	--		
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	--		
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>5.7</b>	<b>13.7</b>	<b>28.9</b>	<b>37.4</b>	<b>45.6</b>	<b>47.1</b>	<b>47.2</b>	<b>48.2</b>	<b>50.5</b>	<b>52.5</b>	<b>54.9</b>	<b>58.0</b>	<b>60.1</b>	<b>63.5</b>	<b>67.3</b>	<b>71.9</b>	<b>79.4</b>	<b>88.2</b>	<b>93.7</b>	<b>102.1</b>	<b>109.6</b>	<b>117.2</b>	<b>125.1</b>	<b>134.5</b>	<b>143.4</b>	<b>153.2</b>	<b>164.6</b>	--		
<b>Cumulative Electric Power Sector Additions</b>	<b>0.0</b>	<b>0.0</b>	<b>22.3</b>	<b>36.7</b>	<b>55.3</b>	<b>71.2</b>	<b>79.4</b>	<b>82.1</b>	<b>82.3</b>	<b>8</b>																						



using the fossil fuel equivalent of 9,884 Btu per kilowatthour.

8) 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 on-site generation, but which may also sell some power to the grid.

9) Represents own-use industrial hydroelectric power.

Note: Totals may not equal sum of components due to independent rounding. Data for 2008 are model results and may differ slightly from official EIA data reports.

Sources: 2007 and 2008 generation: EIA, Annual Energy Review 2008, DOE-EIA-0384(2008) (Washington, DC, June 2009).

Projections: EIA, AEO2010 National Energy Modeling System run aeo2010r.d111809a.