**Table A9. Electricity generating capacity** (gigawatts)

Net summer capacity <sup>1</sup>	Reference case							
	2011	2012	2020	2025	2030	2035	2040	growth 2012-2040 (percent)
Electric power sector <sup>2</sup>								
Power only <sup>3</sup>								
Coal	307.9	301.9	254.9	254.0	254.0	254.0	254.1	-0.6%
Oil and natural gas steam <sup>4</sup>	103.4	99.2	84.9	77.2	70.9	68.7	68.5	-1.3%
Combined cycle	178.8	186.2	205.1	224.1	259.6	291.0	316.2	1.9%
Combustion turbine/diesel	135.4	136.4	146.3	166.1	180.6	199.5	220.4	1.7%
Nuclear power <sup>5</sup>	101.5	102.1	97.8	97.8	98.2	98.8		
							102.0	0.0%
Pumped storage	22.3	22.4	22.4	22.4	22.4	22.4	22.4	0.0%
Fuel cells	0.0	0.0	0.1	0.1	0.1	0.1	0.1	1.9%
Renewable sources <sup>6</sup>	133.0	147.6	173.1	175.0	178.2	184.2	199.2	1.1%
Distributed generation (natural gas) <sup>7</sup>	0.0	0.0	1.6	3.3	4.6	6.2	8.9	
Total	982.4	996.0	986.1	1,020.0	1,068.6	1,124.7	1,191.7	0.6%
Combined heat and power <sup>8</sup>								
Coal	4.8	4.7	4.4	4.4	4.4	4.4	4.3	-0.3%
Oil and natural gas steam <sup>4</sup>	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0%
Combined cycle	25.6	25.7	26.0	26.0	26.0	26.0	26.0	0.0%
Combustion turbine/diesel	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.0%
Renewable sources <sup>6</sup>	1.3	1.3	1.4	1.4	1.4	1.4	1.4	0.1%
Total	36.1	36.1	36.2	36.2	36.2	36.2	36.1	0.0%
Cumulative planned additions <sup>9</sup>								
Coal			2.2	2.2	2.2	2.2	2.2	
Oil and natural gas steam <sup>4</sup>			0.0	0.0	0.0	0.0	0.0	
					9.7	9.7	9.7	
Combined cycle			9.7	9.7				
Combustion turbine/diesel			3.7	3.7	3.7	3.7	3.7	
Nuclear power			5.5	5.5	5.5	5.5	5.5	
Pumped storage			0.0	0.0	0.0	0.0	0.0	
Fuel cells			0.0	0.0	0.0	0.0	0.0	
Renewable sources <sup>6</sup>			9.0	9.0	9.0	9.0	9.0	
Distributed generation <sup>7</sup>			0.0	0.0	0.0	0.0	0.0	
Total			30.1	30.1	30.1	30.1	30.1	
Cumulative unplanned additions <sup>9</sup>								
Coal			0.3	0.3	0.3	0.3	0.5	
Oil and natural gas steam <sup>4</sup>			0.0	0.0	0.0	0.0	0.0	
Combined cycle			9.8	28.8	64.3	95.7	120.9	
Combustion turbine/diesel			14.1	34.5	49.2	68.5	89.4	
Nuclear power			0.0	0.0	0.3	0.9	4.2	
Pumped storage			0.0	0.0	0.0	0.0	0.0	
Fuel cells			0.0	0.0	0.0	0.0	0.0	
Renewable sources <sup>6</sup>			17.4	19.3	22.5	28.5	43.5	
Distributed generation <sup>7</sup>			1.6	3.3	4.6	6.2	8.9	
Total			43.2	86.3	141.4	200.2	267.4	
Cumulative electric power sector additions <sup>9</sup>			73.3	116.4	171.5	230.3	297.5	
Cumulative retirements <sup>10</sup>								
			40.0	E0 7	E0 7	E0 7	E0 0	
Coal			49.9	50.7	50.7	50.7	50.8	
Oil and natural gas steam <sup>4</sup>			14.4	22.1	28.3	30.6	30.8	
Combined cycle			0.3	0.3	0.3	0.3	0.3	
Combustion turbine/diesel			7.8	8.5	8.7	9.1	9.2	
Nuclear power			4.8	4.8	4.8	4.8	4.8	
Pumped storage			0.0	0.0	0.0	0.0	0.0	
Fuel cells			0.0	0.0	0.0	0.0	0.0	
Renewable sources <sup>6</sup>			0.9	0.9	0.9	0.9	0.9	
Total			78.0	87.3	93.8	96.4	96.7	

## Table A9. Electricity generating capacity (continued)

(gigawatts)

Net summer capacity <sup>1</sup>	Reference case							
	2011	2012	2020	2025	2030	2035	2040	2012-2040 (percent)
End-use generators <sup>11</sup>		•						
Coal	3.6	3.4	3.4	3.4	3.4	3.4	3.4	0.0%
Petroleum	0.7	0.9	0.9	0.9	0.9	0.9	0.9	-0.3%
Natural gas	14.9	16.3	19.2	22.3	27.3	33.7	38.9	3.2%
Other gaseous fuels <sup>12</sup>	2.0	2.1	2.8	2.8	2.8	2.8	2.8	1.0%
Renewable sources <sup>6</sup>	8.6	10.5	20.5	23.8	28.5	34.3	41.3	5.0%
Other <sup>13</sup>	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.1%
Total	30.2	33.8	47.2	53.7	63.4	75.6	87.7	3.5%
Cumulative capacity additions <sup>9</sup>			13.5	20.0	29.7	41.8	53.9	

grid,

12 Includes refinery gas and still gas.

13 Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

-- Note: Totals may not equal sum of components due to independent rounding. Data for 2011 and 2012 are model results and may differ from official EIA data

Note: Totals may not equal sum of components due to independent rounding. Data for 2011 and 2012 are model results and may differ from official EIA data

Reference of the components of reports.

Sources: 2011 and 2012 capacity and projected planned additions: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2014 National Energy Modeling System run REF2014.D102413A.

¹Net 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.
²Includes electricity-only and combined heat and power plants that have a regulatory status.
³Includes plants that only produce electricity and that have a regulatory status. Includes capacity increases (uprates) at existing units.
¹Includes oil-, gas-, and dual-fired capacity.
⁵Nuclear capacity includes 0.7 gigawatts of uprates and 5.7 gigawatts of derates through 2020.
⁵Includes conventional hydroelectric, geothermal, wood, wood waste, all municipal waste, landfill gas, other biomass, solar, and wind power. Facilities co-firing biomass and coal are classified as coal.
²Primarily peak load capacity fueled by natural gas.
⁵Includes 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 or that have a regulatory status).
°Cumulative additions after December 31, 2012.
¹¹Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors that have a non-regulatory status; and small onsite 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