

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

Net summer capacity <sup>1</sup>	Reference case							Annual growth 2011-2040 (percent)
	2010	2011	2020	2025	2030	2035	2040	
<b>Electric power sector<sup>2</sup></b>								
<b>Power only<sup>3</sup></b>								
Coal .....	308.0	309.5	268.7	267.9	267.9	267.9	269.0	-0.5%
Oil and natural gas steam <sup>4</sup> .....	105.6	101.9	86.4	78.3	69.1	66.6	64.0	-1.6%
Combined cycle .....	171.8	179.5	193.2	207.6	238.3	265.8	288.4	1.6%
Combustion turbine/diesel .....	134.5	136.1	149.9	162.1	177.2	190.2	208.9	1.5%
Nuclear power <sup>5</sup> .....	101.2	101.1	110.6	114.1	113.6	109.3	113.1	0.4%
Pumped storage .....	22.3	22.3	22.3	22.3	22.3	22.3	22.3	0.0%
Fuel cells .....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8%
Renewable sources <sup>6</sup> .....	125.3	132.3	152.9	155.6	159.7	174.3	206.8	1.6%
Distributed generation <sup>7</sup> .....	0.0	0.0	0.9	1.9	3.1	4.1	5.1	--
<b>Total .....</b>	<b>968.7</b>	<b>982.8</b>	<b>985.0</b>	<b>1,009.8</b>	<b>1,051.2</b>	<b>1,100.7</b>	<b>1,177.7</b>	<b>0.6%</b>
<b>Combined heat and power<sup>8</sup></b>								
Coal .....	4.9	4.9	4.3	4.2	4.2	4.2	4.2	-0.5%
Oil and natural gas steam <sup>4</sup> .....	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0%
Combined cycle .....	26.0	26.0	26.0	26.0	26.0	26.0	26.0	0.0%
Combustion turbine/diesel .....	2.8	2.8	2.8	2.8	2.8	2.8	2.8	-0.1%
Renewable sources <sup>6</sup> .....	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.2%
<b>Total .....</b>	<b>35.3</b>	<b>35.3</b>	<b>34.6</b>	<b>34.6</b>	<b>34.6</b>	<b>34.6</b>	<b>34.6</b>	<b>-0.1%</b>
<b>Cumulative planned additions<sup>9</sup></b>								
Coal .....	0.0	0.0	6.1	6.1	6.1	6.1	6.1	--
Oil and natural gas steam <sup>4</sup> .....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Combined cycle .....	0.0	0.0	10.9	10.9	10.9	10.9	10.9	--
Combustion turbine/diesel .....	0.0	0.0	5.6	5.6	5.6	5.6	5.6	--
Nuclear power .....	0.0	0.0	5.5	5.5	5.5	5.5	5.5	--
Pumped storage .....	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	--
Renewable sources <sup>6</sup> .....	0.0	0.0	18.1	18.1	18.1	18.1	18.1	--
Distributed generation <sup>7</sup> .....	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>46.3</b>	<b>46.3</b>	<b>46.3</b>	<b>46.3</b>	<b>46.3</b>	<b>--</b>
<b>Cumulative unplanned additions<sup>9</sup></b>								
Coal .....	0.0	0.0	0.3	0.3	0.3	0.4	1.5	--
Oil and natural gas steam <sup>4</sup> .....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Combined cycle .....	0.0	0.0	3.1	17.4	48.2	75.7	98.3	--
Combustion turbine/diesel .....	0.0	0.0	15.4	28.0	43.3	56.4	75.3	--
Nuclear power .....	0.0	0.0	0.0	0.0	0.0	0.8	5.5	--
Pumped storage .....	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	--
Renewable sources <sup>6</sup> .....	0.0	0.0	3.7	6.4	10.5	25.2	57.6	--
Distributed generation <sup>7</sup> .....	0.0	0.0	0.9	1.9	3.1	4.1	5.1	--
<b>Total .....</b>	<b>0.0</b>	<b>0.0</b>	<b>23.4</b>	<b>54.1</b>	<b>105.4</b>	<b>162.4</b>	<b>243.3</b>	<b>--</b>
<b>Cumulative electric power sector additions.....</b>	<b>0.0</b>	<b>0.0</b>	<b>69.7</b>	<b>100.4</b>	<b>151.7</b>	<b>208.7</b>	<b>289.5</b>	<b>--</b>
<b>Cumulative retirements<sup>10</sup></b>								
Coal .....	0.0	0.0	47.9	48.8	48.8	48.8	48.8	--
Oil and natural gas steam <sup>4</sup> .....	0.0	0.0	15.5	23.6	32.8	35.3	37.9	--
Combined cycle .....	0.0	0.0	0.2	0.2	0.2	0.2	0.2	--
Combustion turbine/diesel .....	0.0	0.0	7.3	7.7	7.9	7.9	8.2	--
Nuclear power .....	0.0	0.0	0.6	0.6	1.1	6.1	7.1	--
Pumped storage .....	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	--
Renewable sources <sup>6</sup> .....	0.0	0.0	1.2	1.2	1.2	1.2	1.2	--
<b>Total .....</b>	<b>0.0</b>	<b>0.0</b>	<b>72.7</b>	<b>82.1</b>	<b>92.0</b>	<b>99.6</b>	<b>103.4</b>	<b>--</b>
<b>Total electric power sector capacity.....</b>	<b>1,004.1</b>	<b>1,018.1</b>	<b>1,019.6</b>	<b>1,044.4</b>	<b>1,085.8</b>	<b>1,135.3</b>	<b>1,212.3</b>	<b>0.6%</b>

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

Net summer capacity <sup>1</sup>	Reference case							Annual growth 2011-2040 (percent)
	2010	2011	2020	2025	2030	2035	2040	
<b>End-use generators<sup>11</sup></b>								
Coal .....	3.6	3.6	3.6	4.2	4.4	4.6	4.9	1.1%
Petroleum .....	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0%
Natural gas .....	15.1	15.0	17.2	19.7	24.1	30.1	35.1	3.0%
Other gaseous fuels <sup>12</sup> .....	1.6	2.0	2.1	2.1	2.1	2.1	2.1	0.1%
Renewable sources <sup>6</sup> .....	7.6	9.9	24.2	26.3	29.1	32.7	37.5	4.7%
Other <sup>13</sup> .....	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.8%
<b>Total .....</b>	<b>29.0</b>	<b>31.6</b>	<b>48.5</b>	<b>53.7</b>	<b>61.1</b>	<b>71.0</b>	<b>81.0</b>	<b>3.3%</b>
<b>Cumulative capacity additions<sup>9</sup> .....</b>	<b>0.0</b>	<b>0.0</b>	<b>16.9</b>	<b>22.1</b>	<b>29.5</b>	<b>39.3</b>	<b>49.4</b>	<b>--</b>

<sup>1</sup>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.

<sup>2</sup>Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

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

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

<sup>5</sup>Nuclear capacity includes 8.0 gigawatts of uprates through 2040.

<sup>6</sup>Includes 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.

<sup>7</sup>Primarily peak load capacity fueled by natural gas.

<sup>8</sup>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).

<sup>9</sup>Cumulative additions after December 31, 2011.

<sup>10</sup>Cumulative retirements after December 31, 2011.

<sup>11</sup>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.

<sup>12</sup>Includes refinery gas and still gas.

<sup>13</sup>Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2010 and 2011 are model results and may differ slightly from official EIA data reports.

Sources: 2010 and 2011 capacity and projected planned additions: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2013 National Energy Modeling System run REF2013.D102312A.