6.1.7 U.S. Electric Power Sector Cumulative Power Plant Additions Needed to Meet Future Electricity Demand (1)

Electric Generator	Typical New Plant Capacity (MW)	Number of New Power Plants to Meet Demand				
		2015	2020	2025	2030	2035
Coal Steam	1,300	7	8	8	8	8
Combined Cycle	540	28	29	43	79	130
Combustion Turbine/Diesel	148	62	105	174	250	284
Nuclear Power	2,236	1	3	3	3	4
Pumped Storage	147 (2)	0	0	0	0	0
Fuel Cells	10	0	0	0	0	0
Conventional Hydropower	20 (2)	20	47	81	125	185
Geothermal	50	9	26	41	62	81
Municipal Solid Waste	50	1	1	1	1	1
Wood and Other Biomass	50	5	5	5	5	6
Solar Thermal	100	9	9	9	9	9
Solar Photovoltaic	150	11	11	13	23	52
Wind	100	123	124	153	182	262
Total		**277**	**372**	**538**	**760**	**1,041**
Distributed Generation	148 (3)					

Note(s): 1) Cumulative additions after Dec. 31, 2010. 2) Based on current stock average capacity. 3) Combustion turbine/diesel data used.

Source(s): EIA, Annual Energy Outlook (AEO) 2012 Early Release, Jan. 2012, Table A9 and Table A16; EIA, Assumption to the AEO 2011, July 2011, Table 8.2, p. 97; and EIA, Electric Power Annual 2010, Feb. 2012, Table 1.2 for pumped storage and hydroelectric plant capacity.