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Requests for additional information on other statistics available from the U.S. Energy Information Administration or questions concerning subscriptions and report distribution may be directed to the Office of Communications of the U.S. Energy Information Administration at infoctr@eia.gov.

Preface

The Electric Power Monthly (EPM) presents monthly electricity statistics for a wide audience including Congress, Federal and State agencies, the electric power industry, and the general public. The purpose of this publication is to provide energy decision makers with accurate and timely information that may be used in forming various perspectives on electric issues that lie ahead. In order to provide an integrated view of the electric power industry, data in this report have been separated into two major categories: electric power sector and combined heat and power producers. The U.S. Energy Information Administration (EIA) collected the information in this report to fulfill its data collection and dissemination responsibilities as specified in the Federal Energy Administration Act of 1974 (Public Law 93 275) as amended.

Background

The Office of Electricity, Renewables & Uranium Statistics, U.S. EIA, U.S. Department of Energy, prepares the EPM. This publication provides monthly statistics at the State (lowest level of aggregation), Census Division, and U.S. levels for net generation, fossil fuel consumption and stocks, cost, quantity, and quality of fossil fuels received, sales of electricity to ultimate consumers, associated revenue, and average price of electricity sold. In addition, the report contains rolling 12-month totals in the national overviews, as appropriate.

Data sources

The EPM contains information from the following data sources: Form EIA-923, "Power Plant Operations Report;" Form EIA-826, "Monthly Electric Sales and Revenue With State Distributions Report;" Form EIA-860, "Annual Electric Generator Report;" Form EIA-860M, "Monthly Update to the Annual Electric Generator Report;" and Form EIA-861, "Annual Electric Power Industry Report." Forms and their instructions may be obtained from: <http://www.eia.gov/survey/#electricity>. A detailed description of these forms and associated algorithms are found in Appendix C, "Technical Notes."

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		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	81,873	104,795	-21.9%	62,505	80,817	18,571	23,031	NM	35	771	912	0	0
Petroleum Liquids	Utility Scale Facilities	965	1,019	-5.2%	671	710	236	253	NM	11	NM	45	0	0
Petroleum Coke	Utility Scale Facilities	979	922	6.2%	763	691	124	145	0	0	93	86	0	0
Natural Gas	Utility Scale Facilities	111,214	101,919	9.1%	52,908	46,370	50,178	48,031	651	655	7,478	6,863	0	0
Other Gas	Utility Scale Facilities	982	1,016	-3.4%	10	19	286	296	0	0	685	701	0	0
Nuclear	Utility Scale Facilities	66,563	65,833	1.1%	36,517	35,089	30,046	30,743	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	25,396	20,210	25.7%	23,435	18,595	1,832	1,498	NM	NM	123	113	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	28,918	26,470	9.2%	3,363	3,204	23,000	20,672	272	293	2,282	2,301	0	0
... Wind	Utility Scale Facilities	18,824	17,221	9.3%	2,691	2,593	16,114	14,612	12	11	7	5	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	3,644	2,602	40.1%	222	169	3,360	2,376	60	55	NM	NM	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,115	3,366	-7.5%	192	227	753	946	NM	6	2,168	2,186	0	0
... Other Biomass	Utility Scale Facilities	1,877	1,815	3.4%	163	121	1,411	1,366	199	221	104	107	0	0
... Geothermal	Utility Scale Facilities	1,458	1,466	-0.5%	95	94	1,363	1,372	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-321	-370	-13.4%	-257	-292	-64	-78	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,171	1,136	3.0%	51	39	604	572	96	105	420	421	0	0
All Energy Sources	Utility Scale Facilities	317,739	322,949	-1.6%	179,965	185,242	124,813	125,163	1,059	1,102	11,902	11,442	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	1,596	1,202	32.8%	0	0	0	0	570	505	150	119	877	578
Estimated Total Solar Photovoltaic	All Facilities	4,851	3,456	40.3%	208	153	2,984	2,043	629	560	NM	NM	877	578
Estimated Total Solar	All Facilities	5,240	3,803	37.8%	222	169	3,360	2,376	629	560	NM	NM	877	578
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	45,165	57,217	-21.1%	34,071	43,540	10,818	13,343	9	12	267	321	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,601	1,740	-8.0%	1,207	1,274	325	375	NM	20	58	70	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	376	343	9.8%	296	260	52	59	0	0	28	23	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	839,403	768,905	9.2%	407,322	358,129	374,139	355,250	5,484	6,174	52,459	49,353	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,168	1,420	-17.8%	77	76	143	172	33	50	914	1,123	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	225	215	4.8%	0	0	89	86	NM	10	123	119	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	70	101	-30.4%	0	1	6	10	0	0	64	90	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	76,262	74,544	2.3%	612	584	25,199	24,665	4,580	4,259	45,871	45,036	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	46,333	58,637	-21.0%	34,148	43,616	10,961	13,514	42	62	1,181	1,444	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,826	1,954	-6.6%	1,207	1,274	414	461	NM	30	181	189	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	447	444	0.7%	296	261	58	69	0	0	92	113	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	915,665	843,449	8.6%	407,934	358,712	399,338	379,915	10,064	10,433	98,330	94,388	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	197,263	175,001	12.7%	153,713	135,932	41,888	37,504	129	200	1,533	1,366	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	33,179	31,020	7.0%	21,047	20,786	10,586	8,599	244	294	1,302	1,341	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,196	1,179	1.5%	W	856	W	143	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for May									
Total U.S. Electric Power Industry									
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
	May 2016	May 2015	Percentage Change	May 2016	May 2015	Percentage Change	May 2016	May 2015	Percentage Change
Residential	93,867	94,863	-1.1%	12,011	12,288	-2.3%	12.80	12.95	-1.2%
Commercial	107,939	109,127	-1.1%	11,063	11,390	-2.9%	10.25	10.44	-1.8%
Industrial	78,258	80,738	-3.1%	5,115	5,418	-5.6%	6.54	6.71	-2.5%
Transportation	585	611	-4.2%	53	60	-11.6%	9.13	9.89	-7.7%
All Sectors	280,649	285,339	-1.6%	28,242	29,157	-3.1%	10.06	10.22	-1.6%

NM = Not meaningful due to large relative standard error.

W = Withheld to avoid disclosure of individual company data.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Coal generation and consumption includes anthracite, bituminous, subbituminous, lignite, waste coal, refined coal, synthetic coal, and coal-derived synthesis gas.

Petroleum Liquids includes distillate fuel oil, jet fuel, kerosene, propane, and waste oil.

Petroleum Coke includes petroleum coke and synthesis gas derived from petroleum coke.

Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.

Other Gases includes blast furnace gas and other manufactured and waste gases derived from fossil fuels.

Wood and Wood-Derived Fuels include wood, black liquor, and other wood waste.

Other Biomass includes biogenic municipal solid waste, landfill gas, sludge waste, agricultural byproducts, and other biomass.

Coal stocks include anthracite, bituminous, subbituminous, lignite, refined coal, and synthetic coal; waste coal is excluded.

Sales of electricity to ultimate customers and net generation may not correspond exactly for a particular month for a variety of reasons (e.g., sales data may include imported electricity).

Net generation is presented for the calendar month while sales of electricity to ultimate customers and associated revenue accumulate from bills collected for periods of time that vary depending

Table ES1.B. Total Electric Power Industry Summary Statistics, Year-to-Date 2016 and 2015

Net Generation and Consumption of Fuels for January through May														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	433,060	561,636	-22.9%	330,347	418,177	98,392	138,565	187	231	4,133	4,664	0	0
Petroleum Liquids	Utility Scale Facilities	5,180	10,160	-49.0%	3,579	5,335	1,377	4,409	45	137	179	278	0	0
Petroleum Coke	Utility Scale Facilities	4,870	4,616	5.5%	3,910	3,449	500	687	4	4	457	475	0	0
Natural Gas	Utility Scale Facilities	523,071	487,196	7.4%	249,295	223,956	233,837	226,117	3,130	2,961	36,809	34,162	0	0
Other Gas	Utility Scale Facilities	5,759	5,379	7.1%	37	113	1,666	1,513	0	0	4,056	3,753	0	0
Nuclear	Utility Scale Facilities	333,250	327,869	1.6%	177,264	172,325	155,986	155,544	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	127,912	115,053	11.2%	117,078	105,840	10,171	8,561	NM	NM	636	635	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	145,470	124,055	17.3%	18,300	15,988	114,367	94,912	1,343	1,377	11,460	11,778	0	0
... Wind	Utility Scale Facilities	99,856	80,655	23.8%	15,110	13,165	84,649	67,414	60	52	36	24	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	13,316	10,260	29.8%	855	653	12,212	9,386	237	210	12	11	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	16,354	17,270	-5.3%	1,178	1,150	4,315	4,902	23	27	10,838	11,191	0	0
... Other Biomass	Utility Scale Facilities	8,974	8,788	2.1%	716	582	6,663	6,567	1,022	1,087	573	552	0	0
... Geothermal	Utility Scale Facilities	6,970	7,081	-1.6%	441	437	6,529	6,644	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-1,862	-2,003	-7.1%	-1,478	-1,610	-383	-393	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	5,415	5,161	4.9%	247	151	2,775	2,709	458	477	1,935	1,824	0	0
All Energy Sources	Utility Scale Facilities	1,582,125	1,639,121	-3.5%	898,579	943,724	618,688	632,625	5,194	5,204	59,665	57,568	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	6,189	4,622	33.9%	0	0	0	0	2,321	1,985	578	460	3,290	2,176
Estimated Total Solar Photovoltaic	All Facilities	18,258	13,648	33.8%	816	614	11,004	8,191	2,557	2,195	590	472	3,290	2,176
Estimated Total Solar	All Facilities	19,505	14,882	31.1%	855	653	12,212	9,386	2,557	2,195	590	472	3,290	2,176
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	236,953	302,432	-21.7%	178,697	223,513	56,746	77,183	60	77	1,449	1,659	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	8,835	17,200	-48.6%	6,470	9,547	2,073	6,969	53	281	239	403	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,818	1,740	4.5%	1,478	1,312	215	292	1	1	124	135	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	3,899,447	3,624,933	7.6%	1,896,525	1,702,139	1,716,520	1,649,183	28,641	28,846	257,761	244,765	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	6,554	7,460	-12.1%	407	406	697	797	271	324	5,178	5,933	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,055	1,543	-31.7%	13	57	421	572	67	117	554	798	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	433	644	-32.7%	1	3	42	46	6	8	384	586	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	390,470	381,441	2.4%	4,238	3,232	124,206	126,723	24,256	22,359	237,771	229,127	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	243,506	309,892	-21.4%	179,105	223,920	57,443	77,980	331	401	6,627	7,592	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	9,890	18,743	-47.2%	6,483	9,604	2,494	7,541	120	397	793	1,200	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,251	2,383	-5.5%	1,479	1,315	257	338	7	9	508	722	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	4,289,917	4,006,374	7.1%	1,900,763	1,705,370	1,840,726	1,775,906	52,897	51,205	495,531	473,892	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through May									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	Percentage Change
Residential	528,662	562,964	-6.1%	65,298	69,927	-6.6%	12.35	12.42	-0.6%
Commercial	528,851	537,341	-1.6%	53,512	56,028	-4.5%	10.12	10.43	-3.0%
Industrial	380,823	387,942	-1.8%	24,526	26,115	-6.1%	6.44	6.73	-4.3%
Transportation	3,104	3,287	-5.6%	291	338	-13.7%	9.39	10.27	-8.6%
All Sectors	1,441,440	1,491,534	-3.4%	143,626	152,408	-5.8%	9.96	10.22	-2.5%

NM = Not meaningful due to large relative standard error.

W = Withheld to avoid disclosure of individual company data.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Coal generation and consumption includes anthracite, bituminous, subbituminous, lignite, waste coal, refined coal, synthetic coal, and coal-derived synthesis gas.

Petroleum Liquids includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.

Petroleum Coke includes petroleum coke and synthesis gas derived from petroleum coke.

Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.

Other Gases includes blast furnace gas and other manufactured and waste gases derived from fossil fuels.

Wood and Wood-Derived Fuels include wood, black liquor, and other wood waste.

Other Biomass includes biogenic municipal solid waste, landfill gas, sludge waste, agricultural byproducts, and other biomass.

Coal stocks include anthracite, bituminous, subbituminous, lignite, refined coal, and synthetic coal; waste coal is excluded.

Sales of electricity to ultimate customers and net generation may not correspond exactly for a particular month for a variety of reasons (e.g., sales data may include imported electricity).

Net generation is presented for the calendar month while sales of electricity to ultimate customers and associated revenue accumulate from bills collected for periods of time that vary depending

Table ES2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units, 2016 and 2015

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
Coal (1000 tons)	43,883	61,852	42.39	44.27	260	316	232,234	316,817	41.78	43.91
Petroleum Liquids (1000 barrels)	1,520	1,828	58.87	76.29	147	168	6,863	11,439	48.72	76.97
Petroleum Coke (1000 tons)	307	419	36.76	58.07	8	12	1,787	1,971	37.85	56.18
Natural Gas (1000 Mcf)	819,508	760,832	2.48	3.24	751	749	3,831,586	3,587,998	2.64	3.82

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
Coal (1000 tons)	33,443	47,039	42.56	44.97	183	222	175,988	237,689	42.64	44.33
Petroleum Liquids (1000 barrels)	1,116	1,180	55.16	75.72	94	107	5,112	6,789	47.98	74.34
Petroleum Coke (1000 tons)	281	357	34.16	56.26	6	9	1,509	1,657	32.86	54.27
Natural Gas (1000 Mcf)	384,725	347,975	2.79	3.62	397	389	1,825,364	1,637,461	2.93	4.03

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
Coal (1000 tons)	9,867	14,133	40.71	41.00	58	68	53,238	75,604	37.76	41.62
Petroleum Liquids (1000 barrels)	390	639	69.81	77.29	42	51	1,612	4,243	50.46	80.89
Petroleum Coke (1000 tons)	18	48	W	W	1	1	206	207	68.69	66.79
Natural Gas (1000 Mcf)	375,481	354,389	2.11	2.84	305	312	1,712,650	1,661,246	2.32	3.69

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
Coal (1000 tons)	0	5	--	W	0	2	19	62	W	59.16
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	587	488	W	W	2	2	3,445	2,251	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
Coal (1000 tons)	573	676	60.99	W	19	24	2,989	3,461	W	64.87
Petroleum Liquids (1000 barrels)	14	10	66.30	86.77	11	10	139	407	56.21	83.57
Petroleum Coke (1000 tons)	8	14	W	W	1	2	73	107	W	W
Natural Gas (1000 Mcf)	58,714	57,979	W	W	47	46	290,128	287,040	W	W

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Number of Plants represents the number of plants for which receipts data were collected this month.
.... A plant using more than one fuel may be counted multiple times.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.

Table ES2.B. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Btus, 2016 and 2015

Total (All Sectors)										
							Year-to-Date			
Fuel	Receipts		Cost		Number of Plants		Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
Coal	859,327	1,209,862	2.16	2.26	260	316	4,523,987	6,148,545	2.14	2.26
Petroleum Liquids	9,129	11,087	9.79	12.56	147	168	41,381	69,319	8.07	12.68
Petroleum Coke	8,554	11,883	1.32	2.05	8	12	50,085	55,832	1.35	1.98
Natural Gas	846,074	786,889	2.40	3.14	751	749	3,960,700	3,707,253	2.55	3.69
Fossil Fuels	1,723,084	2,019,721	2.31	2.64	912	944	8,576,152	9,980,949	2.35	2.83

Electric Utilities										
							Year-to-Date			
Fuel	Receipts		Cost		Number of Plants		Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
Coal	655,894	923,980	2.17	2.29	183	222	3,448,204	4,631,213	2.18	2.27
Petroleum Liquids	6,751	7,247	9.12	12.33	94	107	31,120	41,417	7.88	12.18
Petroleum Coke	7,842	10,125	1.22	1.98	6	9	42,453	47,045	1.17	1.91
Natural Gas	397,649	359,488	2.70	3.50	397	389	1,887,148	1,689,506	2.84	3.91
Fossil Fuels	1,068,137	1,300,839	2.41	2.68	511	524	5,408,926	6,409,181	2.43	2.76

Independent Power Producers										
							Year-to-Date			
Fuel	Receipts		Cost		Number of Plants		Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
Coal	190,787	270,576	2.11	2.14	58	68	1,008,751	1,437,204	1.99	2.19
Petroleum Liquids	2,293	3,782	11.84	13.02	42	51	9,413	25,426	8.63	13.47
Petroleum Coke	505	1,348	W	W	1	1	5,661	5,794	2.50	2.39
Natural Gas	387,399	366,927	2.04	2.75	305	312	1,770,826	1,718,756	2.24	3.57
Fossil Fuels	580,985	642,633	W	W	350	369	2,794,651	3,187,180	W	W

Commercial Sector										
							Year-to-Date			
Fuel	Receipts		Cost		Number of Plants		Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
Coal	0	102	--	W	0	2	434	1,366	W	2.70
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	599	494	W	W	2	2	3,526	2,283	W	W
Fossil Fuels	599	596	W	W	2	2	3,960	3,649	W	W

Industrial Sector										
							Year-to-Date			
Fuel	Receipts		Cost		Number of Plants		Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
Coal	12,646	15,203	2.76	W	19	24	66,598	78,763	W	2.85
Petroleum Liquids	84	59	11.02	14.16	11	10	848	2,476	9.20	13.72
Petroleum Coke	206	410	W	W	1	2	1,970	2,993	W	W
Natural Gas	60,427	59,979	W	W	47	46	299,200	296,708	W	W
Fossil Fuels	73,363	75,652	W	W	49	49	368,615	380,940	W	W

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Number of Plants represents the number of plants for which receipts data were collected this month.
.... The total number of fossil fuel plants is not the sum of the figures above it because a plant that receives two or more different fuels is only counted once.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
Natural Gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.

Table 1.1.A. Net Generation from Renewable Sources: Total (All Sectors), 2006-May 2016
(Thousand Megawatthours)

		Generation at Utility Scale Facilities									Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation		
Period		Wind	Solar Photovoltaic	Solar Thermal	Wood and Wood-Derived Fuels	Landfill Gas	Biogenic Municipal Solid Waste	Other Waste Biomass	Geothermal	Conventional Hydroelectric	Total Renewable Generation at Utility Scale Facilities	Estimated Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals														
	2006	26,589	15	493	38,762	5,677	8,478	1,944	14,568	289,246	385,772	N/A	N/A	N/A
	2007	34,450	16	596	39,014	6,158	8,304	2,063	14,637	247,510	352,747	N/A	N/A	N/A
	2008	55,363	76	788	37,300	7,156	8,097	2,481	14,840	254,831	380,932	N/A	N/A	N/A
	2009	73,886	157	735	36,050	7,924	8,058	2,461	15,009	273,445	417,724	N/A	N/A	N/A
	2010	94,652	423	789	37,172	8,377	7,927	2,613	15,219	260,203	427,376	N/A	N/A	N/A
	2011	120,177	1,012	806	37,449	9,044	7,354	2,824	15,316	319,355	513,336	N/A	N/A	N/A
	2012	140,822	3,451	876	37,799	9,803	7,320	2,700	15,562	276,240	494,573	N/A	N/A	N/A
	2013	167,840	8,121	915	40,028	10,658	7,186	2,986	15,775	268,565	522,073	N/A	N/A	N/A
	2014	181,655	15,250	2,441	42,340	11,220	7,228	3,202	15,877	259,367	538,579	9,536	24,785	27,227
	2015	190,927	23,232	3,241	42,358	11,233	7,415	3,184	16,767	251,168	549,527	12,141	35,373	38,614
Year 2014														
	January	17,911	697	54	3,626	967	584	299	1,355	21,634	47,127	530	1,227	1,281
	February	14,009	752	83	3,265	930	490	267	1,206	17,396	38,397	564	1,316	1,398
	March	17,736	1,135	182	3,609	961	599	291	1,338	24,257	50,108	769	1,904	2,086
	April	18,636	1,261	226	3,230	957	586	267	1,314	25,440	51,916	839	2,100	2,326
	May	15,601	1,457	292	3,290	944	635	270	1,332	26,544	50,366	927	2,384	2,676
	June	15,799	1,578	345	3,622	943	613	271	1,293	25,744	50,208	934	2,512	2,858
	July	12,187	1,525	262	3,807	1,035	646	261	1,320	24,357	45,402	975	2,501	2,763
	August	10,171	1,618	261	3,761	988	647	245	1,329	19,807	38,828	967	2,585	2,846
	Sept	11,520	1,574	258	3,462	932	606	234	1,308	16,074	35,968	888	2,463	2,721
	October	14,508	1,484	233	3,422	854	603	269	1,345	17,159	39,878	819	2,303	2,536
	November	18,867	1,232	148	3,508	820	612	258	1,362	18,625	45,432	673	1,904	2,052
	December	14,711	936	95	3,737	890	609	268	1,375	22,329	44,950	651	1,587	1,682
Year 2015														
	January	15,262	1,154	64	3,794	983	617	299	1,475	24,631	48,280	643	1,797	1,861
	February	14,959	1,471	162	3,418	822	519	261	1,346	22,770	45,729	704	2,175	2,337
	March	15,331	1,954	287	3,447	895	558	278	1,456	24,884	49,090	979	2,933	3,220
	April	17,881	2,194	374	3,244	913	593	233	1,338	22,558	49,328	1,094	3,287	3,661
	May	17,221	2,255	347	3,366	940	626	249	1,466	20,210	46,680	1,202	3,456	3,803
	June	13,477	2,334	383	3,539	940	625	240	1,381	20,089	43,009	1,218	3,552	3,935
	July	13,686	2,371	383	3,913	987	679	266	1,436	21,114	44,835	1,276	3,648	4,031
	August	13,073	2,439	395	3,834	976	667	260	1,427	19,434	42,505	1,260	3,699	4,094
	Sept	13,916	2,049	309	3,469	891	615	240	1,281	16,242	39,012	1,136	3,185	3,494
	October	16,390	1,822	208	3,300	933	624	279	1,363	16,702	41,620	1,018	2,839	3,048
	November	19,663	1,691	204	3,404	947	631	288	1,380	19,381	47,589	836	2,528	2,732
	December	20,067	1,499	124	3,629	1,006	660	290	1,418	23,154	51,849	774	2,274	2,398
Year 2016														
	January	18,511	1,460	86	3,573	964	627	293	1,436	25,535	52,485	845	2,306	2,392
	February	20,214	2,182	241	3,392	858	547	272	1,342	24,257	53,304	986	3,168	3,409
	March	21,752	2,464	257	3,377	893	587	286	1,429	27,158	58,204	1,315	3,779	4,036
	April	20,555	2,708	273	2,898	891	601	277	1,305	25,567	55,075	1,447	4,155	4,428
	May	18,824	3,255	389	3,115	953	659	265	1,458	25,396	54,314	1,596	4,851	5,240
Year to Date														
	2014	83,893	5,302	838	17,020	4,758	2,893	1,394	6,545	115,271	237,914	3,628	8,930	9,768
	2015	80,655	9,027	1,234	17,270	4,553	2,914	1,321	7,081	115,053	239,108	4,622	13,648	14,882
	2016	99,856	12,069	1,247	16,354	4,559	3,021	1,394	6,970	127,912	273,382	6,189	18,258	19,505
Rolling 12 Months Ending in May														
	2015	178,417	18,974	2,838	42,590	11,015	7,249	3,128	16,413	259,149	539,773	10,529	29,503	32,341
	2016	210,128	26,274	3,254	41,442	11,239	7,523	3,256	16,656	264,028	583,801	13,708	39,982	43,236

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.

Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms..

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.A. Net Generation by Energy Source: Electric Utilities, 2006-May 2016
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities											
	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2006	1,471,421	31,269	9,634	282,088	30	425,341	261,864	15	6,573	-5,281	700	2,483,656
2007	1,490,985	33,325	7,395	313,785	141	427,555	226,734	11	8,943	-5,328	586	2,504,131
2008	1,466,395	22,206	5,918	320,190	46	424,256	229,645	17	11,291	-5,143	545	2,475,367
2009	1,322,092	18,035	7,182	349,166	96	417,275	247,198	28	14,589	-3,369	483	2,372,776
2010	1,378,028	17,258	8,807	392,616	52	424,843	236,104	101	17,826	-4,466	462	2,471,632
2011	1,301,107	11,688	9,428	414,843	29	415,298	291,413	216	21,717	-5,492	604	2,460,851
2012	1,146,480	9,892	5,664	504,958	0	394,823	252,936	639	27,378	-4,202	603	2,339,172
2013	1,188,452	9,446	9,522	501,427	798	406,114	243,040	943	31,474	-3,773	615	2,388,058
2014	1,173,073	10,696	9,147	501,414	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,473
2015	1,016,989	10,590	8,283	614,474	205	416,680	230,130	1,658	35,641	-4,105	496	2,331,041
Year 2014												
January	115,862	2,445	949	41,208	13	38,847	19,673	53	3,286	-218	47	222,165
February	104,638	1,051	706	33,600	7	32,937	15,973	61	2,698	-361	34	191,345
March	97,957	1,037	953	35,116	9	32,612	22,423	91	3,296	-355	57	193,194
April	77,724	711	572	34,890	20	30,312	22,977	98	3,274	-301	52	170,329
May	89,103	709	833	41,226	12	33,760	23,933	114	2,632	-506	49	191,866
June	104,523	650	894	44,315	5	35,898	23,790	127	2,613	-557	53	212,311
July	112,875	711	792	50,296	7	38,031	22,624	131	2,261	-445	62	227,343
August	112,568	711	778	54,553	6	37,182	18,251	130	1,894	-740	60	225,392
Sept	94,482	711	750	46,260	5	35,296	14,895	126	2,277	-461	50	194,390
October	82,991	652	457	42,360	4	32,017	15,863	124	2,826	-351	48	176,990
November	87,064	643	577	37,477	9	34,552	17,369	91	3,473	-441	55	180,869
December	93,287	666	887	40,114	15	38,428	20,415	72	2,749	-409	56	196,279
Year 2015												
January	96,609	1,160	813	45,834	27	39,377	22,809	77	3,135	-460	28	209,407
February	92,630	2,067	879	43,203	25	33,478	21,402	101	2,883	-387	30	196,310
March	80,517	701	502	45,669	22	33,328	22,856	144	3,121	-319	20	186,561
April	67,605	697	565	42,880	20	31,053	20,179	163	3,160	-153	35	166,204
May	80,817	710	691	46,370	19	35,089	18,595	169	3,035	-292	39	185,242
June	95,310	777	604	57,061	17	35,150	18,216	172	2,302	-300	35	209,345
July	105,860	863	898	64,894	17	37,055	18,979	172	2,526	-413	56	230,908
August	101,770	817	827	63,431	21	38,482	17,924	175	2,558	-513	56	225,550
Sept	87,814	702	797	56,355	23	35,034	15,098	141	2,715	-477	50	198,251
October	72,989	685	618	49,676	12	31,886	15,300	124	3,159	-364	50	174,134
November	65,572	735	485	47,367	0	30,751	17,733	117	3,566	-218	45	166,154
December	69,497	675	606	51,733	NM	35,997	21,039	103	3,481	-210	54	182,976
Year 2016												
January	85,132	940	832	52,140	NM	37,985	23,212	104	3,195	-230	50	203,364
February	70,713	792	734	47,455	NM	34,281	21,915	160	3,611	-332	47	179,383
March	57,878	597	724	49,711	NM	34,445	24,913	177	3,734	-291	57	171,951
April	54,119	579	858	47,080	8	34,036	23,604	193	3,764	-367	42	163,916
May	62,505	671	763	52,908	10	36,517	23,435	222	3,141	-257	51	179,965
Year to Date												
2014	485,284	5,952	4,013	186,040	61	168,468	104,980	417	15,186	-1,741	239	968,900
2015	418,177	5,335	3,449	223,956	113	172,325	105,840	653	15,335	-1,610	151	943,724
2016	330,347	3,579	3,910	249,295	37	177,264	117,078	855	17,445	-1,478	247	898,579
Rolling 12 Months Ending in May												
2015	1,105,965	10,079	8,584	539,330	163	423,728	239,046	1,454	33,426	-5,013	534	2,357,297
2016	929,160	8,834	8,744	639,813	NM	421,619	241,367	1,860	37,752	-3,973	592	2,285,896

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2006-May 2016
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2006	498,316	10,396	8,409	452,329	4,223	361,877	24,390	493	58,853	-1,277	6,412	1,424,421
2007	507,406	13,645	6,942	500,967	3,901	378,869	19,109	601	65,150	-1,569	6,191	1,501,212
2008	502,442	8,021	6,737	482,182	3,154	381,952	23,451	847	84,928	-1,145	6,414	1,498,982
2009	419,031	6,306	4,288	491,839	2,962	381,579	24,308	863	100,997	-1,259	6,146	1,437,061
2010	449,709	5,117	3,497	508,774	2,915	382,126	22,351	1,105	119,851	-1,035	6,345	1,500,754
2011	416,783	3,655	3,431	511,447	2,911	374,906	26,117	1,511	140,442	-928	7,059	1,487,335
2012	354,076	2,757	1,758	627,833	2,984	374,509	20,923	3,525	156,539	-748	7,030	1,551,186
2013	379,270	3,761	1,780	527,522	3,524	382,902	22,018	7,782	181,263	-908	6,742	1,515,657
2014	395,701	6,789	1,410	531,758	3,246	377,295	19,861	16,086	196,723	-1,030	6,690	1,554,530
2015	326,949	6,104	1,607	626,464	3,450	380,498	19,676	24,232	204,777	-989	6,771	1,599,539
Year 2014												
January	40,054	3,281	109	41,761	253	34,316	1,837	681	18,727	-72	533	141,480
February	37,580	698	123	35,129	204	29,702	1,316	753	15,039	-84	472	120,930
March	37,333	880	129	35,402	206	29,785	1,715	1,196	18,569	-66	571	125,720
April	30,554	160	141	34,693	211	26,072	2,332	1,355	19,166	-77	516	115,124
May	28,635	203	125	40,419	271	29,187	2,477	1,596	16,817	-95	569	120,205
June	31,947	193	108	46,588	252	32,240	1,850	1,755	17,275	-96	565	132,678
July	35,597	236	128	56,400	276	33,909	1,641	1,618	14,183	-100	584	144,474
August	34,761	261	123	59,357	309	33,946	1,458	1,709	12,495	-101	594	144,913
Sept	30,580	171	145	52,430	293	32,238	1,091	1,670	13,267	-81	562	132,366
October	27,332	209	51	47,693	331	30,374	1,200	1,556	15,642	-97	566	124,857
November	31,053	268	88	39,234	292	30,589	1,155	1,260	19,441	-90	578	123,869
December	30,274	228	139	42,652	349	34,935	1,787	939	16,102	-71	580	127,913
Year 2015												
January	34,845	684	129	47,672	372	34,893	1,689	1,117	16,481	-92	584	138,374
February	33,509	2,995	132	41,036	308	29,984	1,252	1,499	15,967	-69	492	127,106
March	26,963	307	141	46,180	294	31,218	1,882	2,048	16,267	-92	521	125,727
April	20,218	171	140	43,198	243	28,705	2,240	2,347	18,514	-62	541	116,255
May	23,031	253	145	48,031	296	30,743	1,498	2,376	18,297	-78	572	125,163
June	29,751	205	139	56,626	285	33,396	1,770	2,482	15,312	-98	578	140,446
July	32,611	293	140	68,036	309	34,357	2,017	2,522	15,635	-101	604	156,424
August	32,373	243	143	67,602	327	33,933	1,426	2,596	14,987	-113	610	154,128
Sept	29,624	276	140	58,915	319	31,432	1,080	2,164	15,112	-67	550	139,546
October	23,452	209	150	52,755	194	28,685	1,301	1,862	17,155	-79	564	126,248
November	21,354	225	140	47,146	211	29,513	1,535	1,736	20,153	-67	565	122,511
December	19,220	244	68	49,268	292	33,637	1,984	1,484	20,896	-71	591	127,611
Year 2016												
January	27,671	364	42	49,632	365	34,551	2,190	1,411	19,539	-82	577	136,260
February	21,293	392	99	43,306	326	31,357	2,214	2,214	20,536	-66	516	122,187
March	13,510	198	138	45,598	366	31,704	2,100	2,491	22,017	-88	525	118,560
April	17,348	187	97	45,123	322	28,329	1,835	2,737	20,422	-84	553	116,868
May	18,571	236	124	50,178	286	30,046	1,832	3,360	19,641	-64	604	124,813
Year to Date												
2014	174,157	5,222	628	187,404	1,144	149,063	9,678	5,580	88,319	-394	2,660	623,460
2015	138,565	4,409	687	226,117	1,513	155,544	8,561	9,386	85,526	-393	2,709	632,625
2016	98,392	1,377	500	233,837	1,666	155,986	10,171	12,212	102,155	-383	2,775	618,688
Rolling 12 Months Ending in May												
2015	360,109	5,977	1,470	570,471	3,616	383,776	18,744	19,891	193,930	-1,029	6,738	1,563,695
2016	286,776	3,071	1,420	634,184	3,603	380,940	21,286	27,058	221,407	-979	6,836	1,585,601

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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Table 1.2.C. Net Generation by Energy Source: Commercial Sector, 2006-May 2016
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals															
2006	1,310	228	7	4,355	0	0	93	0	1,619	0	758	8,371	N/A	N/A	N/A
2007	1,371	180	9	4,257	0	0	77	0	1,614	0	764	8,273	N/A	N/A	N/A
2008	1,261	136	6	4,188	0	0	60	0	1,555	0	720	7,926	N/A	N/A	N/A
2009	1,096	157	5	4,225	0	0	71	0	1,769	0	842	8,165	N/A	N/A	N/A
2010	1,111	117	7	4,725	3	0	80	5	1,709	0	834	8,592	N/A	N/A	N/A
2011	1,049	86	3	5,487	3	0	26	84	2,392	0	950	10,080	N/A	N/A	N/A
2012	883	191	6	6,603	0	0	28	148	2,397	0	1,046	11,301	N/A	N/A	N/A
2013	839	118	5	7,154	0	0	44	294	2,662	0	1,118	12,234	N/A	N/A	N/A
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	4,349	4,720	4,720
2015	488	202	8	7,690	0	0	NM	554	2,835	0	1,211	13,029	5,024	5,578	5,578
Year 2014															
January	76	102	1	651	0	0	4	16	264	0	104	1,218	253	269	269
February	79	37	1	533	0	0	3	20	216	0	71	961	271	292	292
March	66	30	1	529	0	0	4	29	230	0	84	972	364	394	394
April	47	9	1	509	0	0	4	33	229	0	96	927	394	427	427
May	39	8	0	557	0	0	4	38	238	0	102	986	433	471	471
June	42	8	0	605	0	0	3	39	245	0	99	1,041	431	470	470
July	50	9	0	701	0	0	3	38	263	0	109	1,173	447	485	485
August	42	7	1	722	0	0	3	39	256	0	110	1,181	440	479	479
Sept	36	8	1	657	0	0	3	35	243	0	104	1,086	396	432	432
October	31	9	1	601	0	0	2	36	230	0	97	1,008	355	390	390
November	44	9	1	560	0	0	2	28	218	0	98	960	287	314	314
December	45	10	1	602	0	0	2	20	230	0	97	1,007	278	298	298
Year 2015															
January	53	26	1	619	0	0	NM	23	244	0	92	1,062	286	310	310
February	59	80	1	533	0	0	NM	32	215	0	83	1,005	312	344	344
March	51	12	1	616	0	0	NM	46	243	0	95	1,067	420	466	466
April	33	8	1	539	0	0	NM	54	227	0	102	968	462	516	516
May	35	11	0	655	0	0	NM	55	238	0	105	1,102	505	560	560
June	42	NM	0	652	0	0	NM	60	229	0	103	1,101	505	564	564
July	44	13	0	720	0	0	NM	58	248	0	110	1,196	528	586	586
August	35	12	1	732	0	0	NM	60	231	0	110	1,184	509	569	569
Sept	32	NM	1	674	0	0	NM	50	233	0	111	1,113	456	506	506
October	34	NM	1	638	0	0	NM	42	236	0	95	1,057	402	444	444
November	33	NM	1	650	0	0	NM	41	245	0	100	1,079	326	366	366
December	37	8	1	661	0	0	NM	34	246	0	104	1,095	313	347	347
Year 2016															
January	41	11	1	656	0	0	NM	29	231	0	91	1,065	342	371	371
February	46	13	1	577	0	0	NM	47	203	0	76	968	385	432	432
March	44	NM	1	626	0	0	NM	50	242	0	99	1,073	501	552	552
April	30	NM	0	621	0	0	NM	50	217	0	97	1,028	523	573	573
May	NM	NM	0	651	0	0	NM	60	213	0	96	1,059	570	629	629
Year to Date															
2014	306	186	4	2,779	0	0	19	136	1,177	0	457	5,064	1,716	1,852	1,852
2015	231	137	4	2,961	0	0	NM	210	1,167	0	477	5,204	1,985	2,195	2,195
2016	187	45	4	3,130	0	0	NM	237	1,106	0	458	5,194	2,321	2,557	2,557
Rolling 12 Months Ending in May															
2015	520	198	9	7,409	0	0	NM	444	2,852	0	1,192	12,659	4,619	5,063	5,063
2016	NM	NM	8	7,859	0	0	NM	580	2,774	0	1,192	13,019	5,360	5,940	5,940

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;

Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.D. Net Generation by Energy Source: Industrial Sector, 2006-May 2016
(Thousand Megawatthours)

Generation at Utility Scale Facilities													Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals															
2006	19,464	2,567	1,656	77,669	9,923	0	2,899	0	28,972	0	5,103	148,254	N/A	N/A	N/A
2007	16,694	2,355	1,889	77,580	9,411	0	1,590	0	28,919	0	4,690	143,128	N/A	N/A	N/A
2008	15,703	1,555	1,664	76,421	8,507	0	1,676	0	27,462	0	4,125	137,113	N/A	N/A	N/A
2009	13,686	1,474	1,489	75,748	7,574	0	1,868	0	26,033	0	4,457	132,329	N/A	N/A	N/A
2010	18,441	844	1,414	81,583	8,343	0	1,668	2	26,574	0	5,214	144,082	N/A	N/A	N/A
2011	14,490	657	1,234	81,911	8,624	0	1,799	7	27,612	0	5,541	141,875	N/A	N/A	N/A
2012	12,603	563	2,359	86,500	8,913	0	2,353	14	27,693	0	5,108	146,107	N/A	N/A	N/A
2013	12,554	495	2,036	88,733	8,531	0	3,463	17	29,074	0	5,113	150,015	N/A	N/A	N/A
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	943	960	960
2015	11,632	560	1,088	86,440	9,308	0	1,323	29	28,631	0	4,762	143,773	1,190	1,219	1,219
Year 2014															
January	1,105	85	100	7,441	667	0	120	1	2,466	0	408	12,391	51	52	52
February	998	61	86	6,680	606	0	104	1	2,212	0	363	11,112	54	55	55
March	1,087	56	103	7,105	651	0	114	1	2,439	0	382	11,937	77	78	78
April	955	32	128	6,690	624	0	127	2	2,319	0	375	11,251	84	85	85
May	1,009	40	126	6,918	662	0	130	2	2,385	0	397	11,667	92	94	94
June	1,065	37	130	6,960	711	0	100	2	2,409	0	400	11,814	93	95	95
July	1,105	37	129	7,685	786	0	89	2	2,549	0	408	12,790	97	99	99
August	1,081	35	134	7,716	820	0	96	2	2,496	0	476	12,856	96	98	98
Sept	1,013	39	123	7,234	828	0	86	2	2,275	0	444	12,044	88	89	89
October	942	39	101	7,028	748	0	93	1	2,303	0	411	11,667	83	84	84
November	966	42	108	7,083	772	0	99	1	2,297	0	429	11,797	67	68	68
December	1,015	42	121	7,670	790	0	125	1	2,510	0	484	12,757	61	62	62
Year 2015															
January	992	59	98	7,685	894	0	130	NM	2,572	0	359	12,791	66	NM	NM
February	955	80	107	6,586	747	0	113	NM	2,260	0	306	11,155	70	NM	NM
March	1,007	59	84	6,666	743	0	142	3	2,335	0	349	11,387	99	102	102
April	798	36	99	6,363	668	0	136	3	2,302	0	389	10,793	107	110	110
May	912	45	86	6,863	701	0	113	NM	2,298	0	421	11,442	119	NM	NM
June	1,018	43	70	7,207	804	0	100	3	2,359	0	420	12,025	118	122	122
July	1,083	36	104	7,716	948	0	113	NM	2,558	0	447	13,008	123	NM	NM
August	1,108	37	100	7,727	867	0	81	3	2,460	0	458	12,842	120	123	123
Sept	1,015	37	99	7,286	870	0	61	3	2,352	0	409	12,130	110	113	113
October	956	34	89	6,956	641	0	97	2	2,338	0	419	11,533	101	104	104
November	893	49	NM	7,402	637	0	109	NM	2,348	0	392	11,904	81	NM	NM
December	895	45	81	7,984	788	0	127	NM	2,449	0	392	12,763	75	NM	NM
Year 2016															
January	907	45	106	7,551	885	0	127	NM	2,439	0	402	12,464	80	NM	NM
February	848	NM	77	7,031	805	0	124	NM	2,273	0	342	11,540	88	NM	NM
March	881	NM	88	7,541	864	0	139	NM	2,332	0	382	12,253	124	NM	NM
April	726	25	93	7,207	816	0	123	NM	2,124	0	389	11,506	136	NM	NM
May	771	NM	93	7,478	685	0	123	NM	2,279	0	420	11,902	150	NM	NM
Year to Date															
2014	5,154	273	542	34,832	3,209	0	594	6	11,821	0	1,925	58,357	358	364	364
2015	4,664	278	475	34,162	3,753	0	635	11	11,767	0	1,824	57,568	460	472	472
2016	4,133	179	457	36,809	4,056	0	636	12	11,448	0	1,935	59,665	578	590	590
Rolling 12 Months Ending in May															
2015	11,851	549	1,322	85,539	9,207	0	1,323	NM	28,605	0	4,877	143,294	1,045	NM	NM
2016	11,101	NM	NM	89,087	9,612	0	1,324	NM	28,312	0	4,873	145,870	1,308	NM	NM

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.

See the Technical Notes for fuel conversion factors.

Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.

Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.

See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;

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Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.E. Net Generation by Energy Source: Residential Sector, 2014-May 2016
(Thousand Megawatthours)

	Distributed Generation	
Period	Estimated Distributed Solar Photovoltaic Generation	
Annual Totals		
2014		4,243
2015		5,927
Year 2014		
January		226
February		238
March		328
April		361
May		402
June		410
July		431
August		431
Sept		404
October		382
November		319
December		311
Year 2015		
January		291
February		322
March		461
April		524
May		578
June		595
July		625
August		631
Sept		570
October		514
November		429
December		386
Year 2016		
January		423
February		512
March		690
April		788
May		877
Year to Date		
2014		1,554
2015		2,176
2016		3,290
Rolling 12 Months Ending in May		
2015		4,865
2016		7,041

See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Sources:

Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.3.A. Utility Scale Facility Net Generation
by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	9,087	8,885	2.3%	171	209	8,584	8,312	101	115	232	250
Connecticut	2,709	2,978	-9.1%	NM	NM	2,647	2,901	NM	34	NM	39
Maine	953	757	25.9%	NM	NM	752	544	18	20	184	193
Massachusetts	2,943	2,407	22.2%	36	79	2,844	2,263	47	50	NM	NM
New Hampshire	1,639	1,805	-9.2%	60	59	1,573	1,737	NM	NM	NM	NM
Rhode Island	683	784	-12.9%	1	NM	677	778	NM	NM	0	0
Vermont	161	153	5.0%	70	65	91	88	NM	NM	0	0
Middle Atlantic	33,154	33,279	-0.4%	2,985	2,668	29,636	30,085	184	194	349	333
New Jersey	5,595	5,975	-6.4%	3	2	5,504	5,874	49	54	NM	45
New York	10,851	11,207	-3.2%	2,974	2,659	7,700	8,387	98	103	78	58
Pennsylvania	16,708	16,097	3.8%	NM	NM	16,432	15,824	36	37	232	229
East North Central	42,712	46,065	-7.3%	18,399	20,982	23,404	24,107	161	189	747	787
Illinois	13,643	15,157	-10.0%	824	816	12,583	14,082	36	46	200	213
Indiana	7,393	7,833	-5.6%	6,266	6,571	865	1,000	23	21	240	241
Michigan	9,231	9,761	-5.4%	5,982	7,251	3,052	2,294	75	97	122	119
Ohio	7,565	8,413	-10.1%	1,680	2,643	5,816	5,702	NM	NM	55	58
Wisconsin	4,880	4,900	-0.4%	3,648	3,701	1,088	1,030	NM	NM	131	156
West North Central	23,537	24,848	-5.3%	19,346	20,707	3,798	3,737	60	53	333	350
Iowa	3,495	4,521	-22.7%	2,374	3,224	937	1,097	NM	17	161	183
Kansas	3,662	3,797	-3.6%	2,598	2,918	1,042	871	0	0	NM	NM
Minnesota	4,779	4,234	12.9%	3,825	3,242	822	857	NM	19	112	115
Missouri	5,552	5,766	-3.7%	5,265	5,581	266	167	16	15	NM	NM
Nebraska	2,811	2,832	-0.7%	2,537	2,558	248	244	NM	NM	25	29
North Dakota	2,548	2,970	-14.2%	2,219	2,612	319	346	NM	NM	NM	NM
South Dakota	690	728	-5.1%	527	573	163	154	NM	NM	0	0
South Atlantic	65,193	66,099	-1.4%	54,378	54,844	9,161	9,573	117	114	1,538	1,568
Delaware	659	764	-13.8%	NM	NM	528	657	NM	NM	125	101
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	20,471	20,850	-1.8%	18,121	19,042	1,885	1,349	NM	NM	457	454
Georgia	11,237	11,166	0.6%	9,592	9,273	1,269	1,473	NM	3	376	417
Maryland	2,617	3,309	-20.9%	NM	NM	2,550	3,248	NM	41	25	19
North Carolina	9,818	10,275	-4.4%	8,758	9,440	904	696	20	19	135	119
South Carolina	7,689	7,918	-2.9%	7,328	7,625	204	142	NM	NM	155	150
Virginia	7,429	6,488	14.5%	6,559	5,036	637	1,217	41	39	192	196
West Virginia	5,270	5,324	-1.0%	4,013	4,421	1,183	792	0	0	74	111
East South Central	28,900	30,358	-4.8%	24,073	25,452	4,094	4,183	NM	NM	722	709
Alabama	11,281	12,402	-9.0%	7,614	8,810	3,308	3,248	0	0	358	344
Kentucky	5,644	7,175	-21.3%	5,532	7,029	80	92	0	0	32	54
Mississippi	5,870	5,291	10.9%	5,038	4,332	684	823	NM	NM	146	135
Tennessee	6,104	5,489	11.2%	5,888	5,281	21	21	NM	NM	185	176
West South Central	55,991	54,885	2.0%	19,203	20,173	30,374	28,843	98	81	6,316	5,788
Arkansas	4,157	4,775	-12.9%	2,777	3,513	1,268	1,112	NM	NM	112	150
Louisiana	9,173	8,700	5.4%	5,776	5,811	851	640	NM	NM	2,531	2,235
Oklahoma	5,974	5,549	7.7%	2,937	3,576	2,969	1,903	NM	NM	NM	69
Texas	36,686	35,860	2.3%	7,713	7,273	25,286	25,187	79	65	3,609	3,334
Mountain	27,253	29,085	-6.3%	21,513	23,479	5,446	5,328	47	51	247	227
Arizona	8,422	8,771	-4.0%	6,992	7,462	1,417	1,295	13	14	0	0
Colorado	4,150	3,913	6.1%	3,149	3,066	992	835	NM	NM	NM	NM
Idaho	1,457	1,277	14.0%	999	875	408	359	0	0	49	44
Montana	2,092	2,462	-15.0%	1,377	1,221	714	1,240	0	0	NM	NM
Nevada	3,183	2,878	10.6%	2,334	2,146	817	690	14	14	19	28
New Mexico	2,451	2,646	-7.4%	1,725	2,058	716	572	9	NM	NM	NM
Utah	2,505	3,494	-28.3%	2,238	3,304	205	144	7	NM	55	39
Wyoming	2,993	3,644	-17.8%	2,701	3,347	178	194	0	0	115	102
Pacific Contiguous	30,693	28,225	8.7%	19,099	15,903	9,979	10,685	241	247	1,374	1,390
California	15,649	15,770	-0.8%	5,976	5,536	8,228	8,792	231	235	1,215	1,207
Oregon	4,750	4,309	10.2%	3,732	3,033	960	1,212	NM	NM	52	56
Washington	10,293	8,146	26.4%	9,391	7,334	791	682	NM	NM	107	127
Pacific Noncontiguous	1,220	1,222	-0.2%	798	827	338	309	41	46	NM	40
Alaska	421	450	-6.5%	387	407	14	19	13	13	NM	NM
Hawaii	798	771	3.5%	411	419	324	290	28	33	NM	30
U.S. Total	317,739	322,949	-1.6%	179,965	185,242	124,813	125,163	1,059	1,102	11,902	11,442

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	43,714	45,378	-3.7%	1,126	1,882	40,827	41,469	515	604	1,246	1,422
Connecticut	14,689	15,715	-6.5%	NM	NM	14,337	15,335	153	178	178	184
Maine	5,268	5,397	-2.4%	NM	NM	4,205	4,148	81	91	982	1,158
Massachusetts	12,728	11,738	8.4%	218	252	12,203	11,149	232	268	75	69
New Hampshire	7,625	9,367	-18.6%	455	1,211	7,137	8,112	22	32	NM	NM
Rhode Island	2,433	2,272	7.1%	5	5	2,402	2,234	NM	NM	0	0
Vermont	971	888	9.4%	427	395	543	491	NM	NM	0	0
Middle Atlantic	167,750	174,746	-4.0%	14,315	13,318	150,600	158,628	962	969	1,873	1,831
New Jersey	31,139	29,066	7.1%	13	-1	30,604	28,567	273	274	249	227
New York	53,317	55,583	-4.1%	14,256	13,280	38,134	41,397	514	522	413	384
Pennsylvania	83,295	90,097	-7.5%	NM	NM	81,862	88,664	175	173	1,210	1,220
East North Central	230,111	251,541	-8.5%	99,676	113,738	125,488	132,838	860	860	4,087	4,106
Illinois	73,261	79,738	-8.1%	3,590	4,029	68,413	74,392	183	234	1,075	1,083
Indiana	40,281	43,861	-8.2%	33,085	37,126	5,837	5,414	105	89	1,254	1,232
Michigan	46,536	48,079	-3.2%	31,282	35,585	14,179	11,461	415	415	660	619
Ohio	44,780	52,718	-15.1%	12,282	15,978	32,073	36,330	59	44	366	366
Wisconsin	25,253	27,145	-7.0%	19,437	21,020	4,986	5,241	98	77	732	806
West North Central	128,442	134,595	-4.6%	104,817	113,517	21,659	19,094	309	266	1,658	1,718
Iowa	21,259	24,979	-14.9%	14,702	18,441	5,629	5,566	111	97	817	875
Kansas	18,822	17,710	6.3%	12,922	13,514	5,825	4,170	0	0	76	NM
Minnesota	24,404	23,162	5.4%	18,988	18,060	4,770	4,429	114	95	533	577
Missouri	30,679	33,500	-8.4%	29,388	32,507	1,198	909	76	67	17	16
Nebraska	14,834	15,483	-4.2%	13,204	13,983	1,481	1,338	8	7	141	155
North Dakota	14,263	15,815	-9.8%	12,327	13,855	1,862	1,892	NM	NM	74	68
South Dakota	4,182	3,946	6.0%	3,286	3,157	896	789	NM	NM	0	0
South Atlantic	314,419	320,025	-1.8%	262,548	268,919	43,992	43,130	568	549	7,312	7,426
Delaware	3,034	3,208	-5.4%	NM	NM	2,511	2,695	NM	NM	497	488
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	91,252	93,031	-1.9%	82,742	86,083	6,331	4,791	37	24	2,141	2,133
Georgia	50,672	51,713	-2.0%	42,711	43,652	6,067	6,122	6	14	1,889	1,925
Maryland	13,919	15,352	-9.3%	9	10	13,601	15,009	200	196	109	137
North Carolina	50,450	52,044	-3.1%	45,770	48,341	3,970	2,992	114	104	596	605
South Carolina	39,281	39,673	-1.0%	37,311	38,304	1,211	660	NM	NM	752	708
Virginia	35,778	33,469	6.9%	30,136	26,925	4,498	5,440	175	179	968	925
West Virginia	30,008	31,509	-4.8%	23,845	25,583	5,803	5,420	0	0	360	506
East South Central	143,503	154,007	-6.8%	120,887	130,313	18,864	19,944	62	59	3,691	3,690
Alabama	56,632	60,125	-5.8%	40,125	42,653	14,727	15,672	0	0	1,781	1,800
Kentucky	31,463	36,041	-12.7%	31,048	35,627	170	147	0	0	245	267
Mississippi	25,818	26,337	-2.0%	21,166	21,563	3,868	4,025	NM	NM	775	740
Tennessee	29,591	31,505	-6.1%	28,548	30,469	100	101	53	51	890	884
West South Central	262,730	266,788	-1.5%	88,048	92,277	142,459	144,593	429	373	31,794	29,546
Arkansas	21,695	23,386	-7.2%	16,171	15,788	4,820	6,805	NM	NM	701	789
Louisiana	43,121	41,811	3.1%	25,591	25,552	4,260	4,476	76	76	13,195	11,707
Oklahoma	28,354	29,200	-2.9%	15,588	19,252	12,428	9,634	NM	NM	327	313
Texas	169,560	172,391	-1.6%	30,699	31,684	120,950	123,679	339	293	17,572	16,736
Mountain	136,789	141,705	-3.5%	107,153	114,423	28,118	25,928	183	183	1,335	1,171
Arizona	39,258	39,178	0.2%	34,115	34,492	5,089	4,630	55	56	0	0
Colorado	21,572	20,744	4.0%	16,166	16,200	5,369	4,503	NM	16	NM	25
Idaho	7,053	6,327	11.5%	4,592	4,236	2,226	1,888	0	0	235	204
Montana	11,020	12,386	-11.0%	4,733	5,206	6,279	7,172	0	0	NM	8
Nevada	14,869	13,978	6.4%	11,229	10,665	3,478	3,174	52	44	109	94
New Mexico	11,904	12,550	-5.1%	8,362	9,820	3,481	2,676	37	38	NM	16
Utah	13,522	16,676	-18.9%	12,332	15,757	857	655	NM	NM	306	235
Wyoming	17,591	19,864	-11.4%	15,624	18,045	1,340	1,230	0	0	627	589
Pacific Contiguous	148,457	143,762	3.3%	95,815	90,777	45,109	45,437	1,083	1,119	6,449	6,430
California	73,103	71,235	2.6%	30,043	27,007	36,416	37,579	1,021	1,062	5,622	5,587
Oregon	26,443	24,815	6.6%	20,510	19,333	5,651	5,174	NM	41	239	267
Washington	48,911	47,712	2.5%	45,262	44,437	3,042	2,684	NM	NM	588	576
Pacific Noncontiguous	6,208	6,575	-5.6%	4,193	4,560	1,572	1,565	224	222	220	228
Alaska	2,375	2,662	-10.8%	2,163	2,442	90	101	71	68	NM	51
Hawaii	3,833	3,913	-2.1%	2,030	2,118	1,482	1,464	153	154	168	177
U.S. Total	1,582,125	1,639,121	-3.5%	898,579	943,724	618,688	632,625	5,194	5,204	59,665	57,568

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.4.A. Utility Scale Facility Net Generation from Coal
by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	30	9	214.7%	0	1	28	6	0	0	NM	NM
Connecticut	-2	-2	36.0%	0	0	-2	-2	0	0	0	0
Maine	5	4	20.3%	0	0	5	4	0	0	0	0
Massachusetts	27	6	349.8%	0	0	25	4	0	0	NM	NM
New Hampshire	0	1	-100.0%	0	1	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	4,129	5,767	-28.4%	0	0	4,061	5,709	NM	NM	68	58
New Jersey	99	107	-7.3%	0	0	99	107	0	0	0	0
New York	126	123	2.3%	0	0	89	99	0	0	36	24
Pennsylvania	3,904	5,537	-29.5%	0	0	3,872	5,503	NM	NM	31	34
East North Central	18,118	22,628	-19.9%	11,809	15,242	6,122	7,158	NM	11	181	218
Illinois	3,682	5,316	-30.7%	662	791	2,896	4,394	NM	NM	121	129
Indiana	5,001	6,006	-16.7%	4,766	5,616	231	384	NM	4	NM	NM
Michigan	2,834	4,277	-33.7%	2,791	4,227	38	36	0	6	NM	8
Ohio	4,383	4,489	-2.4%	1,408	2,130	2,958	2,343	NM	NM	17	16
Wisconsin	2,218	2,541	-12.7%	2,182	2,478	0	0	NM	NM	36	64
West North Central	11,917	14,822	-19.6%	11,695	14,550	NM	NM	NM	11	210	259
Iowa	1,195	2,258	-47.1%	1,052	2,087	0	0	NM	8	133	163
Kansas	1,525	1,972	-22.7%	1,525	1,972	0	0	0	0	0	0
Minnesota	1,634	2,142	-23.7%	1,589	2,084	0	0	NM	NM	46	58
Missouri	4,279	4,378	-2.3%	4,273	4,371	NM	NM	0	3	NM	NM
Nebraska	1,434	1,920	-25.3%	1,411	1,891	0	0	0	0	22	29
North Dakota	1,695	2,151	-21.2%	1,690	2,145	0	0	0	0	NM	NM
South Dakota	156	0	--	156	0	0	0	0	0	0	0
South Atlantic	16,179	19,811	-18.3%	14,450	17,330	1,611	2,305	NM	NM	NM	172
Delaware	2	37	-93.7%	0	0	2	37	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,994	3,965	-24.5%	2,894	3,753	81	184	0	0	NM	NM
Georgia	3,154	3,798	-17.0%	3,132	3,782	0	0	0	0	NM	NM
Maryland	562	1,307	-57.0%	0	0	555	1,301	0	NM	7	6
North Carolina	1,905	2,847	-33.1%	1,842	2,754	NM	NM	0	2	NM	NM
South Carolina	1,446	1,887	-23.4%	1,434	1,869	0	0	0	0	NM	18
Virginia	1,247	948	31.6%	1,201	816	NM	99	NM	NM	NM	NM
West Virginia	4,868	5,022	-3.1%	3,946	4,355	907	611	0	0	15	56
East South Central	9,760	12,797	-23.7%	9,466	12,555	198	153	0	0	96	89
Alabama	2,467	3,731	-33.9%	2,451	3,724	0	0	0	0	16	NM
Kentucky	4,569	6,501	-29.7%	4,569	6,501	0	0	0	0	0	0
Mississippi	258	537	-52.0%	60	384	198	153	0	0	0	0
Tennessee	2,467	2,028	21.6%	2,386	1,947	0	0	0	0	81	81
West South Central	11,411	14,091	-19.0%	5,611	7,853	5,769	6,202	0	0	NM	NM
Arkansas	898	1,967	-54.3%	707	1,614	187	349	0	0	5	4
Louisiana	825	966	-14.5%	572	657	253	309	0	0	0	0
Oklahoma	808	1,743	-53.6%	702	1,625	79	86	0	0	NM	NM
Texas	8,880	9,416	-5.7%	3,630	3,958	5,250	5,458	0	0	0	0
Mountain	10,126	14,523	-30.3%	9,452	13,258	643	1,223	0	0	31	42
Arizona	2,202	3,203	-31.2%	2,202	3,203	0	0	0	0	0	0
Colorado	2,171	2,509	-13.5%	2,165	2,502	NM	NM	0	0	NM	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	525	1,088	-51.7%	NM	NM	509	1,065	0	0	NM	NM
Nevada	68	72	-5.7%	-3	9	71	63	0	0	0	0
New Mexico	1,222	1,789	-31.7%	1,222	1,789	0	0	0	0	0	0
Utah	1,484	2,641	-43.8%	1,460	2,608	NM	NM	0	0	3	2
Wyoming	2,450	3,217	-23.8%	2,390	3,124	NM	NM	0	0	23	34
Pacific Contiguous	32	205	-84.3%	0	0	0	172	0	0	32	33
California	30	35	-14.0%	0	0	0	NM	0	0	30	29
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2	170	-99.0%	0	0	0	166	0	0	2	4
Pacific Noncontiguous	171	140	22.0%	21	28	138	100	8	8	NM	NM
Alaska	40	51	-22.5%	21	28	NM	15	8	8	0	0
Hawaii	131	89	47.7%	0	0	128	85	0	0	NM	NM
U.S. Total	81,873	104,795	-21.9%	62,505	80,817	18,571	23,031	NM	35	771	912

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.4.B. Utility Scale Facility Net Generation from Coal

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	1,181	3,008	-60.7%	152	836	1,016	2,139	0	0	13	33
Connecticut	50	586	-91.4%	0	0	50	586	0	0	0	0
Maine	30	59	-48.5%	0	0	27	37	0	0	4	22
Massachusetts	949	1,527	-37.9%	0	0	939	1,516	0	0	NM	11
New Hampshire	152	836	-81.8%	152	836	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	21,529	33,562	-35.9%	0	0	21,208	33,225	NM	NM	318	333
New Jersey	514	1,032	-50.2%	0	0	514	1,032	0	0	0	0
New York	596	1,321	-54.9%	0	0	454	1,194	0	0	142	128
Pennsylvania	20,418	31,208	-34.6%	0	0	20,240	30,999	NM	NM	176	205
East North Central	101,042	133,358	-24.2%	65,280	83,393	34,716	48,736	51	69	995	1,159
Illinois	21,194	31,266	-32.2%	3,007	3,889	17,542	26,687	18	20	626	671
Indiana	27,836	32,983	-15.6%	26,062	30,838	1,752	2,122	16	16	NM	NM
Michigan	15,730	21,470	-26.7%	15,497	21,218	177	166	15	32	40	55
Ohio	24,768	32,866	-24.6%	9,433	13,010	15,245	19,762	NM	NM	90	93
Wisconsin	11,514	14,774	-22.1%	11,281	14,440	0	0	NM	NM	233	333
West North Central	67,088	82,058	-18.2%	65,880	80,691	NM	12	62	77	1,136	1,279
Iowa	8,063	13,190	-38.9%	7,324	12,372	0	0	43	46	696	771
Kansas	7,630	10,283	-25.8%	7,630	10,283	0	0	0	0	0	0
Minnesota	8,898	10,558	-15.7%	8,633	10,251	0	0	NM	NM	265	306
Missouri	23,852	26,541	-10.1%	23,810	26,486	NM	12	18	30	NM	14
Nebraska	7,833	9,362	-16.3%	7,701	9,209	0	0	0	0	132	153
North Dakota	9,959	11,602	-14.2%	9,929	11,568	0	0	0	0	30	35
South Dakota	853	523	63.2%	853	523	0	0	0	0	0	0
South Atlantic	83,691	103,429	-19.1%	73,131	90,150	9,922	12,468	NM	37	608	774
Delaware	213	395	-46.1%	0	0	213	395	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	12,341	16,872	-26.9%	12,063	16,496	186	282	0	0	NM	NM
Georgia	12,418	16,025	-22.5%	12,320	15,913	0	0	0	0	98	112
Maryland	4,554	6,740	-32.4%	0	0	4,522	6,680	0	NM	31	60
North Carolina	11,062	16,870	-34.4%	10,746	16,511	NM	253	24	32	NM	NM
South Carolina	8,199	9,760	-16.0%	8,139	9,689	0	0	0	0	61	71
Virginia	6,716	6,911	-2.8%	6,365	6,234	180	516	NM	NM	166	157
West Virginia	28,188	29,857	-5.6%	23,498	25,308	4,614	4,342	0	0	76	207
East South Central	49,777	63,350	-21.4%	48,274	61,571	1,027	1,296	0	0	477	484
Alabama	11,624	15,501	-25.0%	11,556	15,430	0	0	0	0	69	71
Kentucky	25,967	32,027	-18.9%	25,967	32,027	0	0	0	0	0	0
Mississippi	1,662	2,898	-42.6%	635	1,602	1,027	1,296	0	0	0	0
Tennessee	10,524	12,924	-18.6%	10,116	12,512	0	0	0	0	408	413
West South Central	50,663	69,255	-26.8%	26,708	36,400	23,802	32,713	0	0	NM	NM
Arkansas	6,834	8,595	-20.5%	5,231	6,989	1,581	1,582	0	0	23	24
Louisiana	4,034	6,207	-35.0%	2,968	3,136	1,066	3,071	0	0	0	0
Oklahoma	5,352	9,899	-45.9%	4,639	9,305	583	475	0	0	NM	NM
Texas	34,443	44,554	-22.7%	13,871	16,970	20,573	27,584	0	0	0	0
Mountain	56,349	71,939	-21.7%	50,465	64,990	5,630	6,661	0	0	254	288
Arizona	10,065	13,940	-27.8%	10,065	13,940	0	0	0	0	0	0
Colorado	11,185	13,005	-14.0%	11,158	12,980	NM	NM	0	0	NM	NM
Idaho	26	30	-14.2%	0	0	0	0	0	0	26	30
Montana	5,067	6,057	-16.3%	NM	NM	4,973	5,940	0	0	NM	NM
Nevada	536	713	-24.9%	250	440	285	274	0	0	0	0
New Mexico	5,891	7,763	-24.1%	5,891	7,763	0	0	0	0	0	0
Utah	8,930	13,033	-31.5%	8,745	12,820	NM	136	0	0	76	77
Wyoming	14,649	17,397	-15.8%	14,264	16,934	237	288	0	0	148	176
Pacific Contiguous	846	923	-8.3%	308	26	372	738	0	0	165	158
California	152	161	-6.0%	0	0	0	NM	0	0	152	143
Oregon	308	26	NM	308	26	0	0	0	0	0	0
Washington	386	735	-47.5%	0	0	372	720	0	0	14	15
Pacific Noncontiguous	894	754	18.7%	149	120	688	577	44	43	NM	NM
Alaska	259	240	7.6%	149	120	66	78	44	43	0	0
Hawaii	636	513	23.8%	0	0	622	499	0	0	NM	NM
U.S. Total	433,060	561,636	-22.9%	330,347	418,177	98,392	138,565	187	231	4,133	4,664

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids
by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	25	19	32.1%	3	3	NM	11	NM	NM	NM	NM
Connecticut	15	NM	NM	0	NM	14	NM	NM	NM	NM	NM
Maine	NM	NM	NM	NM	NM	NM	1	NM	NM	NM	NM
Massachusetts	NM	10	NM	1	1	NM	NM	NM	NM	NM	NM
New Hampshire	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Rhode Island	NM	NM	NM	1	NM	0	0	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	39	54	-27.7%	NM	NM	27	42	NM	5	3	2
New Jersey	NM	4	NM	NM	NM	NM	4	NM	NM	NM	NM
New York	NM	23	NM	NM	NM	NM	12	NM	4	2	2
Pennsylvania	23	27	-13.1%	NM	NM	22	26	NM	NM	NM	NM
East North Central	63	56	11.3%	40	41	21	12	NM	NM	NM	2
Illinois	7	4	57.7%	2	2	5	2	NM	NM	NM	NM
Indiana	11	16	-30.8%	10	14	NM	NM	NM	NM	1	2
Michigan	20	12	68.1%	20	12	0	NM	NM	NM	NM	NM
Ohio	22	21	7.1%	5	10	16	10	NM	NM	NM	NM
Wisconsin	NM	4	NM	NM	3	0	NM	NM	NM	NM	NM
West North Central	32	40	-20.1%	30	38	NM	NM	NM	NM	NM	NM
Iowa	10	7	38.7%	9	7	NM	NM	NM	NM	NM	NM
Kansas	4	5	-25.2%	4	5	0	0	0	0	0	0
Minnesota	NM	NM	NM	NM	4	NM	NM	NM	NM	NM	NM
Missouri	9	17	-45.1%	9	17	0	0	NM	NM	0	0
Nebraska	NM	2	NM	NM	2	0	0	0	0	0	0
North Dakota	NM	2	NM	NM	2	0	0	NM	NM	NM	NM
South Dakota	NM	2	NM	NM	2	NM	NM	NM	NM	0	0
South Atlantic	115	150	-23.6%	77	94	32	48	NM	NM	5	7
Delaware	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
District of Columbia	0	0	-	0	0	0	0	0	0	0	0
Florida	21	30	-31.8%	19	29	NM	NM	0	0	NM	NM
Georgia	7	11	-35.5%	5	8	0	NM	0	NM	2	3
Maryland	11	15	-25.5%	1	NM	10	13	NM	NM	NM	NM
North Carolina	22	25	-12.3%	21	23	NM	NM	NM	NM	NM	NM
South Carolina	10	9	5.5%	9	9	NM	NM	NM	NM	0	1
Virginia	26	45	-41.3%	6	14	20	30	NM	NM	NM	NM
West Virginia	16	12	34.3%	16	10	0	1	0	0	0	0
East South Central	34	35	-3.1%	32	33	0	NM	NM	NM	NM	NM
Alabama	4	7	-46.0%	2	5	0	NM	0	0	NM	NM
Kentucky	15	15	-3.4%	15	15	0	0	0	0	0	0
Mississippi	1	1	-49.4%	1	1	0	0	0	0	0	0
Tennessee	15	12	26.3%	14	11	NM	NM	NM	NM	NM	NM
West South Central	19	27	-27.9%	7	10	12	15	NM	NM	1	2
Arkansas	4	7	-37.5%	1	4	3	1	0	0	1	1
Louisiana	1	2	-47.8%	1	1	0	1	0	0	0	0
Oklahoma	1	1	-16.2%	1	1	0	0	NM	NM	NM	NM
Texas	13	17	-22.6%	4	5	9	12	NM	NM	NM	NM
Mountain	25	19	32.2%	NM	16	3	2	NM	NM	NM	NM
Arizona	4	4	7.9%	4	4	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	NM	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	2	NM	NM	NM	3	2	0	0	0	0
Nevada	0	0	-76.8%	0	0	0	0	0	0	0	0
New Mexico	NM	6	NM	NM	6	0	0	0	0	NM	NM
Utah	NM	2	NM	3	2	NM	NM	0	0	NM	NM
Wyoming	8	4	73.9%	7	4	0	0	0	0	NM	NM
Pacific Contiguous	21	22	-5.0%	NM	3	NM	7	NM	NM	17	13
California	20	20	-0.7%	NM	3	NM	5	NM	NM	16	12
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	NM	2	NM	NM	NM	NM	1	NM	NM	NM	NM
Pacific Noncontiguous	593	597	-0.7%	451	466	122	115	NM	NM	NM	16
Alaska	56	59	-4.3%	53	55	0	0	NM	NM	3	4
Hawaii	536	538	-0.3%	398	411	122	115	0	0	NM	12
U.S. Total	965	1,019	-5.2%	671	710	236	253	NM	11	NM	45

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.5.B. Utility Scale Facility Net Generation from Petroleum Liquids

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	□			Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	208	1,879	-88.9%	23	160	159	1,611	22	76	NM	31
Connecticut	27	386	-92.9%	3	3	23	377	NM	NM	NM	NM
Maine	80	488	-83.6%	NM	NM	76	458	NM	NM	4	29
Massachusetts	78	743	-89.5%	10	51	55	644	13	46	NM	NM
New Hampshire	8	161	-94.9%	5	98	NM	52	NM	NM	NM	NM
Rhode Island	14	98	-86.0%	5	5	6	80	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	515	2,370	-78.3%	157	741	324	1,542	13	35	22	51
New Jersey	53	274	-80.7%	NM	NM	52	272	NM	NM	NM	NM
New York	346	1,661	-79.1%	156	740	161	841	11	34	18	47
Pennsylvania	116	435	-73.4%	0	NM	111	430	NM	NM	3	NM
East North Central	244	256	-4.8%	164	180	69	63	NM	NM	9	12
Illinois	36	22	58.3%	9	9	25	14	1	NM	NM	NM
Indiana	55	78	-29.7%	49	70	NM	NM	NM	NM	5	8
Michigan	56	51	10.0%	55	49	0	NM	NM	NM	NM	1
Ohio	83	87	-4.3%	40	37	42	48	NM	NM	NM	NM
Wisconsin	NM	18	NM	NM	15	2	1	NM	NM	NM	NM
West North Central	98	149	-34.6%	92	139	NM	NM	NM	2	NM	NM
Iowa	21	19	12.6%	21	18	NM	NM	NM	NM	NM	NM
Kansas	10	29	-66.1%	10	29	0	0	0	0	0	0
Minnesota	NM	22	NM	NM	13	NM	NM	NM	2	NM	NM
Missouri	31	44	-28.3%	31	44	0	0	NM	NM	0	0
Nebraska	10	9	9.3%	10	9	0	0	0	0	0	0
North Dakota	12	11	3.2%	12	11	0	0	NM	NM	NM	NM
South Dakota	NM	15	NM	NM	15	NM	NM	NM	NM	0	0
South Atlantic	908	1,947	-53.4%	611	1,381	259	496	NM	NM	37	52
Delaware	41	132	-68.9%	NM	NM	40	129	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	139	265	-47.5%	129	251	NM	NM	0	0	9	11
Georgia	70	116	-39.7%	35	48	20	46	1	1	14	21
Maryland	99	151	-34.6%	5	6	93	128	NM	NM	NM	NM
North Carolina	147	319	-54.0%	116	291	28	21	NM	NM	NM	7
South Carolina	67	150	-55.1%	58	130	NM	12	NM	NM	7	8
Virginia	295	757	-61.0%	217	607	76	145	NM	NM	NM	NM
West Virginia	50	58	-13.9%	50	46	0	12	0	0	0	0
East South Central	122	183	-33.4%	108	156	5	13	NM	NM	9	14
Alabama	26	54	-51.4%	14	30	5	12	0	0	7	12
Kentucky	45	59	-24.0%	45	59	0	0	0	0	0	0
Mississippi	7	9	-20.1%	7	8	0	0	0	0	1	1
Tennessee	44	62	-28.6%	43	60	0	NM	NM	NM	NM	NM
West South Central	68	140	-51.3%	43	84	22	52	NM	NM	2	5
Arkansas	16	29	-43.3%	11	19	3	6	0	0	2	3
Louisiana	8	55	-84.7%	7	45	2	10	0	0	0	0
Oklahoma	5	NM	NM	5	2	0	0	NM	NM	NM	NM
Texas	39	54	-28.8%	21	17	17	36	NM	NM	NM	NM
Mountain	107	102	4.8%	96	92	8	7	NM	NM	NM	NM
Arizona	27	24	13.7%	27	24	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	10	NM	NM	NM	7	6	0	0	0	0
Nevada	3	5	-43.6%	2	4	1	1	0	0	0	0
New Mexico	28	33	-16.0%	28	33	0	0	0	0	NM	NM
Utah	12	8	52.1%	12	8	NM	NM	0	0	NM	NM
Wyoming	23	18	29.0%	20	15	0	0	0	0	NM	2
Pacific Contiguous	39	42	-7.7%	14	13	NM	12	NM	NM	20	16
California	33	36	-7.4%	13	13	NM	10	NM	NM	17	13
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	NM	6	NM	NM	NM	1	2	NM	NM	NM	3
Pacific Noncontiguous	2,871	3,092	-7.1%	2,272	2,389	524	605	2	3	NM	95
Alaska	309	330	-6.4%	291	309	0	0	NM	NM	16	19
Hawaii	2,562	2,762	-7.2%	1,981	2,080	524	605	1	2	NM	75
U.S. Total	5,180	10,160	-49.0%	3,579	5,335	1,377	4,409	45	137	179	278

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NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke
by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	NM	NM	NM	0	0	0	0	0	0	NM	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	169	226	-25.4%	51	99	99	103	0	0	NM	24
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	38	-100.0%	0	38	0	0	0	0	0	0
Michigan	62	70	-11.3%	47	56	0	1	0	0	NM	NM
Ohio	100	102	-1.9%	0	0	99	102	0	0	NM	0
Wisconsin	7	16	-58.6%	4	5	0	0	0	0	3	11
West North Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Iowa	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	223	119	87.2%	213	113	0	0	0	0	9	6
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	213	113	89.6%	213	113	0	0	0	0	0	0
Georgia	9	6	44.8%	0	0	0	0	0	0	9	6
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	104	73	43.2%	104	73	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	104	73	43.2%	104	73	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	432	438	-1.4%	394	406	0	0	0	0	NM	32
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	419	427	-1.8%	394	406	0	0	0	0	NM	NM
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	13	12	12.3%	0	0	0	0	0	0	13	12
Mountain	24	41	-41.7%	0	0	24	41	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	24	41	-41.7%	0	0	24	41	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	979	922	6.2%	763	691	124	145	0	0	93	86

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.6.B. Utility Scale Facility Net Generation from Petroleum Coke

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	92	82	12.0%	0	0	0	0	0	0	92	82
New Jersey	NM	NM	NM	0	0	0	0	0	0	NM	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	73	78	-6.9%	0	0	0	0	0	0	73	78
East North Central	1,151	1,215	-5.2%	719	608	330	488	0	0	102	119
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	497	301	65.1%	497	301	0	0	0	0	0	0
Michigan	278	360	-22.7%	206	284	3	13	0	0	69	63
Ohio	331	475	-30.2%	0	0	327	475	0	0	NM	0
Wisconsin	45	79	-43.0%	16	23	0	0	0	0	29	56
West North Central	NM	31	NM	0	0	0	0	4	4	NM	NM
Iowa	NM	31	NM	0	0	0	0	4	4	NM	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	999	649	54.0%	942	569	0	0	0	0	56	79
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	942	569	65.6%	942	569	0	0	0	0	0	0
Georgia	56	79	-29.2%	0	0	0	0	0	0	56	79
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	448	478	-6.4%	448	478	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	448	478	-6.4%	448	478	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1,974	1,961	0.7%	1,801	1,794	0	0	0	0	173	167
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,921	1,897	1.2%	1,801	1,794	0	0	0	0	120	103
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	53	64	-16.1%	0	0	0	0	0	0	53	64
Mountain	170	197	-13.9%	0	0	170	197	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	170	197	-13.9%	0	0	170	197	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	4,870	4,616	5.5%	3,910	3,449	500	687	4	4	457	475

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas
by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	4,994	4,727	5.7%	16	58	4,811	4,473	73	86	94	109
Connecticut	1,490	1,263	18.0%	1	1	1,433	1,189	NM	34	NM	39
Maine	323	162	99.8%	0	0	273	104	NM	NM	NM	55
Massachusetts	2,096	1,987	5.5%	13	57	2,030	1,873	41	45	NM	NM
New Hampshire	424	553	-23.4%	2	0	419	550	NM	NM	NM	NM
Rhode Island	660	761	-13.3%	0	0	656	757	NM	NM	0	0
Vermont	0	0	-74.2%	0	0	0	0	0	0	0	0
Middle Atlantic	12,768	12,149	5.1%	956	909	11,597	10,994	87	89	128	157
New Jersey	3,244	3,090	5.0%	NM	NM	3,196	3,032	NM	17	NM	34
New York	4,735	4,795	-1.3%	947	900	3,710	3,818	59	59	NM	18
Pennsylvania	4,789	4,263	12.3%	NM	NM	4,691	4,144	NM	NM	83	105
East North Central	8,268	6,191	33.6%	3,724	2,508	4,283	3,409	118	132	144	141
Illinois	1,103	620	77.8%	155	NM	881	519	33	44	NM	38
Indiana	1,696	1,126	50.6%	1,430	837	205	230	NM	14	44	44
Michigan	2,793	1,481	88.6%	760	254	1,948	1,135	46	50	NM	42
Ohio	1,410	2,000	-29.5%	243	474	1,151	1,512	NM	NM	NM	NM
Wisconsin	1,267	964	31.4%	1,137	925	97	12	NM	NM	NM	NM
West North Central	2,089	834	150.6%	1,651	660	348	126	NM	27	NM	NM
Iowa	402	121	231.9%	377	107	NM	NM	NM	NM	NM	NM
Kansas	119	110	8.4%	98	102	0	0	0	0	NM	NM
Minnesota	878	299	193.8%	696	238	157	44	NM	NM	NM	NM
Missouri	497	188	163.8%	290	99	191	82	16	8	NM	NM
Nebraska	NM	19	NM	NM	19	0	0	NM	0	NM	0
North Dakota	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
South Dakota	97	73	31.7%	97	73	0	0	0	0	0	0
South Atlantic	27,043	26,080	3.7%	21,883	20,940	4,784	4,786	NM	47	326	306
Delaware	616	698	-11.7%	NM	NM	514	609	0	0	97	85
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	13,845	13,558	2.1%	12,195	12,616	1,523	826	NM	NM	122	114
Georgia	4,604	3,806	21.0%	3,415	2,332	1,149	1,416	0	0	40	58
Maryland	444	467	-5.0%	0	0	399	425	NM	37	NM	NM
North Carolina	3,052	3,245	-6.0%	2,663	2,889	368	344	0	1	NM	NM
South Carolina	1,299	1,155	12.5%	1,118	1,045	174	106	NM	NM	NM	NM
Virginia	3,016	3,030	-0.5%	2,479	2,026	504	972	NM	NM	32	31
West Virginia	163	115	41.6%	8	27	154	88	0	0	1	0
East South Central	10,571	9,325	13.4%	6,551	5,177	3,851	3,989	NM	NM	158	146
Alabama	4,660	4,529	2.9%	1,284	1,217	3,286	3,229	0	0	89	83
Kentucky	651	333	95.6%	558	219	79	91	0	0	NM	22
Mississippi	4,433	3,597	23.3%	3,914	2,899	485	668	NM	NM	33	28
Tennessee	827	866	-4.5%	795	843	NM	NM	NM	NM	22	12
West South Central	30,020	26,717	12.4%	9,498	8,179	14,913	13,541	91	74	5,518	4,922
Arkansas	1,571	1,029	52.7%	482	248	1,064	752	NM	NM	24	28
Louisiana	5,844	5,243	11.4%	3,208	3,190	500	235	NM	NM	2,121	1,804
Oklahoma	3,157	2,357	34.0%	1,848	1,536	1,292	808	NM	NM	NM	NM
Texas	19,449	18,088	7.5%	3,960	3,204	12,057	11,746	72	59	3,360	3,078
Mountain	7,975	6,202	28.6%	6,056	4,380	1,774	1,671	32	35	114	115
Arizona	2,734	1,799	52.0%	1,740	865	983	923	11	NM	0	0
Colorado	1,041	622	67.5%	860	458	180	158	0	NM	NM	NM
Idaho	190	293	-35.2%	100	216	84	73	0	0	NM	NM
Montana	NM	46	NM	NM	42	NM	NM	0	0	0	0
Nevada	2,318	2,121	9.3%	2,139	1,940	156	149	5	NM	18	27
New Mexico	792	587	35.0%	456	236	326	336	9	NM	NM	NM
Utah	770	689	11.7%	690	619	NM	NM	7	NM	36	36
Wyoming	63	45	40.2%	NM	NM	NM	NM	0	0	51	40
Pacific Contiguous	7,282	9,500	-23.3%	2,375	3,371	3,816	5,041	151	151	941	937
California	6,151	7,631	-19.4%	1,763	2,302	3,316	4,258	144	143	927	928
Oregon	489	1,101	-55.5%	289	474	187	613	NM	NM	NM	NM
Washington	642	769	-16.5%	323	594	312	170	NM	NM	5	3
Pacific Noncontiguous	202	196	3.5%	199	189	0	0	NM	NM	NM	NM
Alaska	202	196	3.5%	199	189	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	111,214	101,919	9.1%	52,908	46,370	50,178	48,031	651	655	7,478	6,863

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.7.B. Utility Scale Facility Net Generation from Natural Gas

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	20,506	18,561	10.5%	67	85	19,556	17,596	384	397	499	483
Connecticut	7,456	6,501	14.7%	1	1	7,128	6,161	151	158	177	182
Maine	1,437	1,191	20.6%	0	0	1,178	946	NM	NM	250	235
Massachusetts	7,779	6,453	20.6%	60	82	7,459	6,112	199	205	61	53
New Hampshire	1,515	2,344	-35.4%	6	1	1,492	2,325	NM	NM	NM	NM
Rhode Island	2,319	2,070	12.0%	0	0	2,299	2,052	NM	NM	0	0
Vermont	0	1	-82.4%	0	1	0	0	0	0	0	0
Middle Atlantic	60,450	55,689	8.5%	4,364	4,129	54,868	50,367	469	442	750	752
New Jersey	16,021	13,278	20.7%	NM	NM	15,757	13,010	77	76	150	158
New York	20,587	20,922	-1.6%	4,321	4,091	15,831	16,435	329	308	107	89
Pennsylvania	23,843	21,490	11.0%	NM	NM	23,281	20,922	64	59	493	505
East North Central	45,129	35,627	26.7%	19,323	15,355	24,374	18,979	643	608	790	683
Illinois	6,034	3,690	63.5%	541	105	5,153	3,200	161	211	178	174
Indiana	7,846	7,110	10.4%	6,161	5,655	1,393	1,170	74	57	218	227
Michigan	12,320	7,898	56.0%	3,399	1,814	8,396	5,662	279	235	246	187
Ohio	11,752	11,596	1.3%	2,675	2,842	9,004	8,685	54	41	NM	28
Wisconsin	7,178	5,333	34.6%	6,548	4,939	428	263	NM	64	127	67
West North Central	8,653	5,593	54.7%	7,068	4,734	1,216	634	165	113	204	112
Iowa	1,279	799	60.1%	1,172	729	NM	NM	NM	33	NM	37
Kansas	502	414	21.4%	433	390	0	0	0	0	70	NM
Minnesota	3,994	2,409	65.8%	3,283	2,094	584	220	NM	58	53	37
Missouri	2,075	1,501	38.3%	1,399	1,063	632	415	42	22	NM	NM
Nebraska	160	89	79.7%	150	87	0	0	NM	NM	NM	NM
North Dakota	200	114	75.2%	188	103	0	0	0	0	NM	NM
South Dakota	443	268	65.5%	443	268	0	0	0	0	0	0
South Atlantic	123,562	115,267	7.2%	100,852	95,430	21,032	18,226	243	208	1,436	1,403
Delaware	2,624	2,561	2.4%	NM	NM	2,213	2,127	0	0	391	419
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	61,754	60,248	2.5%	56,408	56,843	4,763	2,815	NM	NM	562	579
Georgia	20,920	18,857	10.9%	15,176	12,903	5,562	5,766	0	0	182	188
Maryland	1,793	1,293	38.7%	0	0	1,574	1,106	185	165	34	NM
North Carolina	16,674	14,586	14.3%	14,795	13,026	1,796	1,506	4	2	80	52
South Carolina	5,380	5,263	2.2%	4,309	4,783	1,036	468	NM	NM	30	11
Virginia	13,960	12,134	15.0%	10,106	7,800	3,702	4,201	NM	NM	149	132
West Virginia	432	298	45.1%	38	60	386	238	0	0	8	NM
East South Central	48,849	45,260	7.9%	30,376	26,007	17,617	18,433	60	58	796	763
Alabama	21,721	21,869	-0.7%	6,650	5,874	14,615	15,565	0	0	457	431
Kentucky	3,178	1,714	85.4%	2,923	1,471	164	141	0	0	92	103
Mississippi	19,876	18,150	9.5%	16,868	15,258	2,836	2,724	NM	NM	164	160
Tennessee	4,074	3,526	15.5%	3,936	3,405	NM	NM	51	49	84	70
West South Central	136,640	134,749	1.4%	41,838	38,068	67,070	71,241	393	341	27,340	25,098
Arkansas	5,826	6,859	-15.1%	2,530	1,531	3,153	5,163	NM	NM	142	164
Louisiana	27,550	24,213	13.8%	14,030	13,823	2,630	950	76	76	10,813	9,364
Oklahoma	13,526	12,891	4.9%	9,141	8,512	4,309	4,316	NM	NM	65	62
Texas	89,738	90,785	-1.2%	16,137	14,202	56,977	60,812	305	263	16,319	15,508
Mountain	36,336	28,883	25.8%	28,313	21,204	7,281	7,006	128	139	613	534
Arizona	10,843	7,488	44.8%	7,361	4,250	3,438	3,192	45	46	0	0
Colorado	5,119	3,614	41.6%	4,346	2,690	766	912	0	NM	NM	NM
Idaho	1,291	963	34.0%	641	508	614	435	0	0	35	20
Montana	332	236	40.9%	301	216	NM	NM	0	0	0	0
Nevada	10,945	9,851	11.1%	10,181	9,080	636	656	NM	NM	108	93
New Mexico	3,974	3,609	10.1%	2,280	1,907	1,633	1,649	36	37	NM	16
Utah	3,521	2,865	22.9%	3,170	2,542	161	138	NM	NM	162	156
Wyoming	312	258	21.0%	NM	NM	NM	NM	0	0	276	242
Pacific Contiguous	41,875	46,261	-9.5%	16,059	17,669	20,823	23,634	643	654	4,350	4,304
California	33,235	38,654	-14.0%	11,079	13,329	17,308	20,456	596	614	4,253	4,255
Oregon	4,821	4,760	1.3%	1,938	1,894	2,792	2,806	NM	32	55	28
Washington	3,818	2,847	34.1%	3,042	2,446	723	371	NM	NM	42	22
Pacific Noncontiguous	1,069	1,305	-18.1%	1,034	1,274	0	0	NM	NM	NM	30
Alaska	1,069	1,305	-18.1%	1,034	1,274	0	0	NM	NM	NM	30
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	523,071	487,196	7.4%	249,295	223,956	233,837	226,117	3,130	2,961	36,809	34,162

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NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases
by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	57	43	32.2%	0	0	0	0	0	0	57	43
New Jersey	NM	NM	NM	0	0	0	0	0	0	NM	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	48	33	43.9%	0	0	0	0	0	0	48	33
East North Central	367	386	-5.0%	10	19	172	174	0	0	185	193
Illinois	NM	NM	NM	0	0	0	0	0	0	NM	NM
Indiana	155	160	-3.7%	0	0	0	0	0	0	155	160
Michigan	142	151	-5.9%	10	19	132	132	0	0	0	0
Ohio	NM	NM	NM	0	0	NM	NM	0	0	NM	NM
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	NM	NM	0	0	0	0	0	0	NM	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	29	18	59.7%	0	0	0	0	0	0	29	18
Delaware	27	15	78.0%	0	0	0	0	0	0	27	15
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	63.2%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	2	3	-38.6%	0	0	0	0	0	0	2	3
East South Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Alabama	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	8.1%	0	0	0	0	0	0	1	1
West South Central	316	370	-14.4%	0	0	81	85	0	0	235	285
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	135	185	-27.0%	0	0	0	0	0	0	135	185
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	181	185	-1.7%	0	0	81	85	0	0	100	100
Mountain	41	29	40.1%	0	0	1	2	0	0	40	27
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	1	-54.8%	0	0	1	1	0	0	0	0
Nevada	0	0	-100.0%	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	40	27	46.8%	0	0	0	0	0	0	40	27
Pacific Contiguous	163	159	2.8%	0	0	33	35	0	0	130	123
California	130	123	5.3%	0	0	0	0	0	0	130	123
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	33	35	-6.0%	0	0	33	35	0	0	0	0
Pacific Noncontiguous	NM	NM	NM	0	0	0	0	0	0	NM	NM
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	NM	NM	NM	0	0	0	0	0	0	NM	NM
U.S. Total	982	1,016	-3.4%	10	19	286	296	0	0	685	701

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.8.B. Utility Scale Facility Net Generation from Other Gases

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	304	251	21.2%	0	0	0	0	0	0	304	251
New Jersey	79	64	23.8%	0	0	0	0	0	0	79	64
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	225	187	20.3%	0	0	0	0	0	0	225	187
East North Central	2,166	1,976	9.6%	37	113	1,001	826	0	0	1,129	1,037
Illinois	166	131	26.0%	0	0	4	0	0	0	162	131
Indiana	867	826	5.0%	NM	NM	0	0	0	0	856	817
Michigan	691	662	4.3%	25	104	666	558	0	0	0	0
Ohio	443	357	24.2%	0	0	332	268	0	0	111	88
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	NM	NM	0	0	0	0	0	0	NM	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	110	76	44.7%	0	0	0	0	0	0	110	76
Delaware	100	63	59.9%	0	0	0	0	0	0	100	63
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2	1	34.5%	0	0	0	0	0	0	2	1
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	8	12	-32.1%	0	0	0	0	0	0	8	12
East South Central	20	22	-7.1%	0	0	0	0	0	0	20	22
Alabama	NM	17	NM	0	0	0	0	0	0	NM	17
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	6	5	20.8%	0	0	0	0	0	0	6	5
West South Central	2,060	2,048	0.6%	0	0	488	520	0	0	1,572	1,528
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,047	1,019	2.8%	0	0	0	0	0	0	1,047	1,019
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,013	1,029	-1.6%	0	0	488	520	0	0	525	509
Mountain	206	177	16.3%	0	0	6	9	0	0	200	168
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	5	7	-28.0%	0	0	5	7	0	0	0	0
Nevada	1	2	-52.3%	0	0	1	2	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	200	168	18.8%	0	0	0	0	0	0	200	168
Pacific Contiguous	842	788	6.9%	0	0	171	158	0	0	671	630
California	671	630	6.6%	0	0	0	0	0	0	671	630
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	171	158	8.0%	0	0	171	158	0	0	0	0
Pacific Noncontiguous	27	22	25.6%	0	0	0	0	0	0	27	22
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	27	22	25.6%	0	0	0	0	0	0	27	22
U.S. Total	5,759	5,379	7.1%	37	113	1,666	1,513	0	0	4,056	3,753

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy
by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	2,468	2,600	-5.1%	0	0	2,468	2,600	0	0	0	0
Connecticut	1,042	1,564	-33.4%	0	0	1,042	1,564	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	495	108	359.4%	0	0	495	108	0	0	0	0
New Hampshire	931	928	0.3%	0	0	931	928	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	12,348	11,740	5.2%	0	0	12,348	11,740	0	0	0	0
New Jersey	2,045	2,570	-20.4%	0	0	2,045	2,570	0	0	0	0
New York	3,081	3,572	-13.8%	0	0	3,081	3,572	0	0	0	0
Pennsylvania	7,222	5,598	29.0%	0	0	7,222	5,598	0	0	0	0
East North Central	12,925	13,681	-5.5%	2,148	2,439	10,778	11,242	0	0	0	0
Illinois	7,887	8,219	-4.0%	0	0	7,887	8,219	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,742	3,032	-9.6%	2,148	2,439	594	593	0	0	0	0
Ohio	1,401	1,535	-8.8%	0	0	1,401	1,535	0	0	0	0
Wisconsin	895	894	0.1%	0	0	895	894	0	0	0	0
West North Central	4,087	3,285	24.4%	3,645	2,851	442	434	0	0	0	0
Iowa	442	434	1.8%	0	0	442	434	0	0	0	0
Kansas	904	762	18.6%	904	762	0	0	0	0	0	0
Minnesota	1,262	656	92.5%	1,262	656	0	0	0	0	0	0
Missouri	538	903	-40.4%	538	903	0	0	0	0	0	0
Nebraska	941	530	77.6%	941	530	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	18,108	17,025	6.4%	16,796	15,723	1,312	1,302	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,700	2,485	8.6%	2,700	2,485	0	0	0	0	0	0
Georgia	2,874	3,018	-4.8%	2,874	3,018	0	0	0	0	0	0
Maryland	1,312	1,302	0.8%	0	0	1,312	1,302	0	0	0	0
North Carolina	3,868	3,499	10.5%	3,868	3,499	0	0	0	0	0	0
South Carolina	4,620	4,592	0.6%	4,620	4,592	0	0	0	0	0	0
Virginia	2,735	2,129	28.5%	2,735	2,129	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,910	6,502	6.3%	6,910	6,502	0	0	0	0	0	0
Alabama	3,491	3,377	3.4%	3,491	3,377	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	1,064	1,048	1.5%	1,064	1,048	0	0	0	0	0	0
Tennessee	2,354	2,077	13.3%	2,354	2,077	0	0	0	0	0	0
West South Central	5,646	6,353	-11.1%	2,948	2,928	2,697	3,425	0	0	0	0
Arkansas	1,348	1,372	-1.8%	1,348	1,372	0	0	0	0	0	0
Louisiana	1,601	1,556	2.8%	1,601	1,556	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2,697	3,425	-21.3%	0	0	2,697	3,425	0	0	0	0
Mountain	2,394	2,764	-13.4%	2,394	2,764	0	0	0	0	0	0
Arizona	2,394	2,764	-13.4%	2,394	2,764	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,676	1,882	-10.9%	1,676	1,882	0	0	0	0	0	0
California	847	1,696	-50.1%	847	1,696	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	830	186	346.1%	830	186	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	66,563	65,833	1.1%	36,517	35,089	30,046	30,743	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.9.B. Utility Scale Facility Net Generation from Nuclear Energy

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	13,060	13,620	-4.1%	0	0	13,060	13,620	0	0	0	0
Connecticut	6,317	7,503	-15.8%	0	0	6,317	7,503	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	2,394	1,598	49.8%	0	0	2,394	1,598	0	0	0	0
New Hampshire	4,350	4,519	-3.7%	0	0	4,350	4,519	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	64,335	64,081	0.4%	0	0	64,335	64,081	0	0	0	0
New Jersey	13,533	13,562	-0.2%	0	0	13,533	13,562	0	0	0	0
New York	16,551	17,933	-7.7%	0	0	16,551	17,933	0	0	0	0
Pennsylvania	34,251	32,587	5.1%	0	0	34,251	32,587	0	0	0	0
East North Central	63,948	63,504	0.7%	10,788	10,667	53,160	52,837	0	0	0	0
Illinois	40,018	39,316	1.8%	0	0	40,018	39,316	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	13,746	13,610	1.0%	10,788	10,667	2,958	2,944	0	0	0	0
Ohio	6,183	6,226	-0.7%	0	0	6,183	6,226	0	0	0	0
Wisconsin	4,002	4,351	-8.0%	0	0	4,002	4,351	0	0	0	0
West North Central	20,184	17,387	16.1%	17,972	15,226	2,212	2,160	0	0	0	0
Iowa	2,212	2,160	2.4%	0	0	2,212	2,160	0	0	0	0
Kansas	4,446	2,435	82.6%	4,446	2,435	0	0	0	0	0	0
Minnesota	5,617	4,408	27.4%	5,617	4,408	0	0	0	0	0	0
Missouri	3,221	4,364	-26.2%	3,221	4,364	0	0	0	0	0	0
Nebraska	4,689	4,019	16.7%	4,689	4,019	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	85,356	82,646	3.3%	79,499	76,875	5,857	5,770	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	12,760	11,722	8.9%	12,760	11,722	0	0	0	0	0	0
Georgia	13,496	13,888	-2.8%	13,496	13,888	0	0	0	0	0	0
Maryland	5,857	5,770	1.5%	0	0	5,857	5,770	0	0	0	0
North Carolina	17,223	16,675	3.3%	17,223	16,675	0	0	0	0	0	0
South Carolina	23,426	22,802	2.7%	23,426	22,802	0	0	0	0	0	0
Virginia	12,592	11,787	6.8%	12,592	11,787	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	30,889	31,977	-3.4%	30,889	31,977	0	0	0	0	0	0
Alabama	16,583	16,602	-0.1%	16,583	16,602	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	3,657	4,696	-22.1%	3,657	4,696	0	0	0	0	0	0
Tennessee	10,649	10,680	-0.3%	10,649	10,680	0	0	0	0	0	0
West South Central	30,627	29,751	2.9%	13,266	12,676	17,362	17,075	0	0	0	0
Arkansas	6,480	5,922	9.4%	6,480	5,922	0	0	0	0	0	0
Louisiana	6,786	6,754	0.5%	6,786	6,754	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	17,362	17,075	1.7%	0	0	17,362	17,075	0	0	0	0
Mountain	13,356	13,395	-0.3%	13,356	13,395	0	0	0	0	0	0
Arizona	13,356	13,395	-0.3%	13,356	13,395	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	11,494	11,509	-0.1%	11,494	11,509	0	0	0	0	0	0
California	7,449	8,126	-8.3%	7,449	8,126	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4,045	3,383	19.6%	4,045	3,383	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	333,250	327,869	1.6%	177,264	172,325	155,986	155,544	0	0	0	0

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Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	Percentage Change			May 2016		May 2015		May 2016		May 2015	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	593	590	0.6%	79	74	481	483	NM	NM	33	33
Connecticut	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Maine	271	278	-2.4%	0	0	239	246	0	0	32	32
Massachusetts	70	67	4.0%	NM	NM	53	52	NM	NM	NM	NM
New Hampshire	122	126	-2.6%	31	27	92	99	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	96	88	9.4%	NM	NM	NM	NM	0	0	0	0
Middle Atlantic	2,646	2,308	14.6%	2,057	1,796	583	507	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,395	2,122	12.9%	2,051	1,790	339	327	NM	NM	NM	NM
Pennsylvania	248	184	34.9%	NM	NM	242	178	0	0	0	0
East North Central	467	408	14.3%	403	354	NM	NM	NM	NM	NM	NM
Illinois	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
Indiana	29	39	-27.3%	29	39	0	0	0	0	0	0
Michigan	153	123	23.9%	140	114	NM	NM	0	0	NM	NM
Ohio	NM	44	NM	22	26	NM	NM	0	0	0	0
Wisconsin	234	190	23.0%	210	170	NM	NM	0	0	NM	NM
West North Central	741	1,004	-26.2%	719	985	NM	NM	0	0	3	3
Iowa	83	66	25.2%	82	66	NM	NM	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	NM	45	NM	NM	NM	NM	NM	0	0	3	3
Missouri	118	143	-17.9%	118	143	0	0	0	0	0	0
Nebraska	113	94	20.8%	113	94	0	0	0	0	0	0
North Dakota	171	214	-19.9%	171	214	0	0	0	0	0	0
South Dakota	201	441	-54.3%	201	441	0	0	0	0	0	0
South Atlantic	1,233	943	30.7%	950	746	222	141	NM	NM	59	55
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	NM	NM	NM	NM	NM	0	0	0	0	0	0
Georgia	216	198	9.1%	213	195	NM	NM	0	0	NM	NM
Maryland	157	110	43.5%	0	0	157	110	0	0	0	0
North Carolina	353	279	26.3%	346	274	NM	NM	NM	NM	NM	NM
South Carolina	208	178	16.7%	201	173	NM	NM	NM	NM	0	0
Virginia	137	66	106.7%	131	61	NM	NM	0	0	NM	NM
West Virginia	146	97	50.8%	NM	NM	47	17	0	0	56	52
East South Central	1,064	1,151	-7.5%	1,064	1,150	NM	NM	0	0	0	0
Alabama	384	488	-21.2%	384	488	0	0	0	0	0	0
Kentucky	278	209	33.1%	278	208	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	402	454	-11.5%	402	454	0	0	0	0	0	0
West South Central	711	711	0.0%	615	618	96	92	0	0	0	0
Arkansas	236	264	-10.6%	233	262	NM	NM	0	0	0	0
Louisiana	90	88	2.5%	0	0	90	88	0	0	0	0
Oklahoma	286	289	-1.0%	286	289	0	0	0	0	0	0
Texas	98	70	41.1%	95	67	NM	NM	0	0	0	0
Mountain	3,495	2,957	18.2%	3,341	2,836	152	120	NM	NM	0	0
Arizona	592	565	4.7%	592	565	0	0	0	0	0	0
Colorado	162	133	21.9%	141	115	NM	NM	NM	NM	0	0
Idaho	998	734	36.1%	886	648	112	86	0	0	0	0
Montana	1,301	1,155	12.6%	1,286	1,143	NM	NM	0	0	0	0
Nevada	197	198	-0.7%	193	195	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	63	54	17.2%	63	54	NM	NM	0	0	0	0
Wyoming	168	106	58.9%	167	105	NM	NM	0	0	0	0
Pacific Contiguous	14,331	10,001	43.3%	14,099	9,907	230	93	NM	NM	0	0
California	3,176	1,265	151.0%	3,008	1,219	166	46	NM	NM	0	0
Oregon	3,300	2,447	34.9%	3,271	2,422	NM	NM	0	0	0	0
Washington	7,855	6,289	24.9%	7,819	6,266	NM	NM	0	0	0	0
Pacific Noncontiguous	115	138	-16.6%	108	128	2	5	0	0	NM	NM
Alaska	105	127	-16.8%	105	127	0	0	0	0	0	0
Hawaii	NM	NM	NM	NM	NM	2	5	0	0	NM	NM
U.S. Total	25,396	20,210	25.7%	23,435	18,595	1,832	1,498	NM	NM	123	113

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NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.10.B. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	3,692	3,263	13.2%	524	421	2,969	2,655	NM	NM	195	184
Connecticut	220	188	17.1%	NM	NM	202	173	0	0	0	0
Maine	1,638	1,569	4.4%	0	0	1,445	1,387	0	0	192	182
Massachusetts	484	387	25.3%	112	83	366	298	NM	NM	NM	NM
New Hampshire	730	609	19.9%	184	151	546	458	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	618	509	21.5%	211	172	407	337	0	0	0	0
Middle Atlantic	13,706	11,794	16.2%	9,980	8,645	3,692	3,119	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	12,199	10,556	15.6%	9,939	8,610	2,225	1,916	NM	NM	NM	NM
Pennsylvania	1,490	1,226	21.6%	NM	NM	1,450	1,191	0	0	0	0
East North Central	2,280	2,225	2.5%	1,945	1,909	251	229	NM	NM	83	86
Illinois	63	52	21.0%	NM	NM	37	30	NM	NM	0	0
Indiana	162	129	25.5%	162	129	0	0	0	0	0	0
Michigan	723	734	-1.5%	655	673	55	48	0	0	NM	NM
Ohio	238	179	33.0%	123	74	115	105	0	0	0	0
Wisconsin	1,095	1,131	-3.2%	981	1,012	NM	46	0	0	70	73
West North Central	4,277	4,651	-8.0%	4,166	4,550	96	93	0	0	15	8
Iowa	385	407	-5.6%	382	404	NM	NM	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	255	248	3.2%	157	158	83	82	0	0	15	8
Missouri	737	443	66.4%	737	443	0	0	0	0	0	0
Nebraska	534	538	-0.7%	534	538	0	0	0	0	0	0
North Dakota	789	971	-18.7%	789	971	0	0	0	0	0	0
South Dakota	1,567	2,037	-23.1%	1,567	2,037	0	0	0	0	0	0
South Atlantic	8,615	6,037	42.7%	7,104	4,693	1,216	1,034	NM	NM	287	304
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	106	91	16.2%	106	91	0	0	0	0	0	0
Georgia	1,722	1,199	43.6%	1,705	1,185	NM	NM	0	0	NM	NM
Maryland	962	806	19.4%	0	0	962	806	0	0	0	0
North Carolina	2,847	1,868	52.4%	2,806	1,835	NM	NM	NM	NM	NM	NM
South Carolina	1,558	1,072	45.4%	1,516	1,038	NM	NM	NM	NM	0	0
Virginia	750	407	84.2%	711	375	NM	NM	0	0	NM	NM
West Virginia	669	593	12.8%	259	169	142	138	0	0	268	287
East South Central	10,960	10,240	7.0%	10,956	10,236	NM	NM	0	0	0	0
Alabama	5,319	4,717	12.8%	5,319	4,717	0	0	0	0	0	0
Kentucky	1,610	1,545	4.2%	1,606	1,541	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	4,031	3,978	1.3%	4,031	3,978	0	0	0	0	0	0
West South Central	4,232	2,927	44.6%	3,671	2,494	561	433	0	0	0	0
Arkansas	1,911	1,322	44.6%	1,892	1,312	NM	NM	0	0	0	0
Louisiana	525	409	28.5%	0	0	525	409	0	0	0	0
Oklahoma	1,225	858	42.7%	1,225	858	0	0	0	0	0	0
Texas	571	338	69.0%	554	323	NM	NM	0	0	0	0
Mountain	13,980	13,995	-0.1%	13,425	13,476	551	516	NM	NM	0	0
Arizona	3,084	2,664	15.8%	3,084	2,664	0	0	0	0	0	0
Colorado	846	685	23.5%	744	584	98	98	NM	NM	0	0
Idaho	4,234	3,989	6.2%	3,875	3,666	360	323	0	0	0	0
Montana	4,303	4,840	-11.1%	4,234	4,769	69	71	0	0	0	0
Nevada	792	1,151	-31.2%	776	1,134	NM	NM	0	0	0	0
New Mexico	64	57	12.6%	64	57	0	0	0	0	0	0
Utah	302	290	4.0%	299	287	NM	NM	0	0	0	0
Wyoming	354	319	10.9%	350	315	NM	NM	0	0	0	0
Pacific Contiguous	65,492	59,185	10.7%	64,658	58,714	825	468	NM	NM	0	0
California	11,326	4,922	130.1%	10,795	4,734	522	185	NM	NM	0	0
Oregon	17,852	17,095	4.4%	17,713	16,960	139	135	0	0	0	0
Washington	36,313	37,168	-2.3%	36,150	37,020	163	147	0	0	0	0
Pacific Noncontiguous	678	736	-7.9%	648	701	7	11	0	0	NM	NM
Alaska	638	690	-7.6%	638	690	0	0	0	0	0	0
Hawaii	NM	46	NM	NM	NM	7	11	0	0	NM	NM
U.S. Total	127,912	115,053	11.2%	117,078	105,840	10,171	8,561	NM	NM	636	635

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	Percentage Change			May 2016		May 2015		May 2016		May 2015	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	839	816	2.8%	73	72	659	635	15	16	93	93
Connecticut	78	71	10.2%	NM	0	78	71	0	0	0	0
Maine	321	280	14.7%	0	0	221	178	8	9	92	93
Massachusetts	198	188	5.6%	6	7	188	178	NM	NM	NM	NM
New Hampshire	156	191	-18.7%	26	32	126	156	3	3	0	0
Rhode Island	21	21	-0.1%	0	0	20	21	NM	NM	0	0
Vermont	65	65	-0.5%	39	34	25	31	NM	NM	0	0
Middle Atlantic	1,020	1,093	-6.7%	11	9	883	974	58	61	68	49
New Jersey	165	160	2.6%	11	9	127	124	27	27	NM	NM
New York	448	523	-14.4%	0	0	415	493	18	20	15	10
Pennsylvania	407	409	-0.5%	0	0	341	356	14	14	53	39
East North Central	2,299	2,429	-5.4%	276	315	1,869	1,955	20	23	134	136
Illinois	909	941	-3.4%	NM	NM	907	940	NM	NM	0	0
Indiana	466	419	11.4%	31	26	429	385	NM	NM	5	6
Michigan	517	619	-16.5%	130	168	315	377	14	21	58	53
Ohio	156	167	-6.2%	NM	NM	132	138	NM	NM	21	26
Wisconsin	250	283	-11.8%	111	116	85	115	3	0	50	51
West North Central	4,587	4,768	-3.8%	1,553	1,558	2,974	3,146	8	12	52	52
Iowa	1,357	1,629	-16.7%	854	957	494	662	2	3	6	7
Kansas	1,110	947	17.1%	69	77	1,041	870	0	0	NM	0
Minnesota	909	1,048	-13.3%	226	213	634	787	NM	3	45	45
Missouri	79	92	-14.2%	4	4	74	83	NM	4	NM	NM
Nebraska	270	267	1.4%	21	21	248	244	NM	NM	0	0
North Dakota	626	574	9.0%	306	228	319	346	0	0	NM	0
South Dakota	236	211	11.9%	73	57	163	154	0	0	0	0
South Atlantic	2,062	1,835	12.4%	188	159	1,006	798	45	43	823	835
Delaware	13	13	0.3%	NM	NM	10	10	NM	NM	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	390	416	-6.2%	59	31	171	228	3	2	158	155
Georgia	418	385	8.6%	8	NM	119	57	NM	2	291	325
Maryland	98	80	22.3%	NM	NM	84	69	NM	NM	10	8
North Carolina	588	348	69.1%	17	NM	454	243	19	15	98	89
South Carolina	190	194	-2.0%	35	41	NM	29	0	0	133	124
Virginia	290	323	-10.5%	67	84	70	87	20	20	132	133
West Virginia	74	75	-0.8%	0	0	74	75	0	0	0	0
East South Central	516	513	0.4%	NM	8	44	40	NM	NM	462	465
Alabama	274	266	3.1%	NM	0	22	18	0	0	251	248
Kentucky	26	39	-32.8%	8	8	NM	NM	0	0	18	31
Mississippi	114	108	5.8%	0	0	NM	NM	0	0	113	107
Tennessee	101	100	0.6%	0	0	21	20	NM	NM	80	80
West South Central	7,341	6,063	21.1%	132	169	6,803	5,481	7	7	399	407
Arkansas	94	123	-23.5%	0	0	12	8	NM	NM	82	115
Louisiana	226	201	12.6%	0	0	8	7	0	0	218	193
Oklahoma	1,727	1,162	48.6%	107	129	1,596	1,009	0	0	24	24
Texas	5,294	4,577	15.7%	25	40	5,187	4,457	6	6	75	74
Mountain	3,144	2,538	23.9%	269	239	2,819	2,247	14	15	42	37
Arizona	489	429	14.0%	53	55	434	372	NM	NM	0	0
Colorado	798	669	19.3%	9	13	786	653	NM	NM	NM	NM
Idaho	264	245	7.8%	12	11	212	199	0	0	40	35
Montana	142	108	32.4%	15	14	126	93	0	0	NM	NM
Nevada	599	485	23.6%	NM	0	586	475	9	9	NM	NM
New Mexico	418	252	65.9%	28	15	390	236	NM	NM	0	0
Utah	168	106	58.1%	23	21	146	85	0	0	0	0
Wyoming	265	244	8.3%	125	110	140	134	0	0	0	0
Pacific Contiguous	6,990	6,282	11.3%	834	660	5,869	5,308	87	95	201	219
California	5,109	4,840	5.5%	242	236	4,724	4,458	84	92	58	55
Oregon	957	758	26.3%	172	136	740	570	NM	2	43	50
Washington	924	684	35.1%	420	289	404	280	NM	NM	99	114
Pacific Noncontiguous	121	132	-8.0%	19	15	75	88	18	21	9	7
Alaska	17	17	0.7%	8	8	NM	4	4	4	NM	0
Hawaii	104	115	-9.3%	11	6	71	84	14	17	8	7
U.S. Total	28,918	26,470	9.2%	3,363	3,204	23,000	20,672	272	293	2,282	2,301

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.11.B. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	4,482	4,476	0.1%	360	379	3,568	3,385	69	85	484	626
Connecticut	371	325	14.1%	NM	0	370	316	0	9	0	0
Maine	1,925	1,933	-0.4%	0	0	1,408	1,266	34	42	483	625
Massachusetts	886	862	2.8%	35	35	832	811	17	15	NM	NM
New Hampshire	849	877	-3.2%	109	124	727	738	13	16	0	0
Rhode Island	99	103	-4.5%	0	0	95	100	NM	NM	0	0
Vermont	352	375	-6.2%	215	221	136	154	NM	NM	0	0
Middle Atlantic	6,260	6,409	-2.3%	45	38	5,568	5,738	292	300	355	333
New Jersey	752	716	5.1%	45	38	568	538	138	139	NM	NM
New York	2,836	2,975	-4.7%	0	0	2,637	2,788	86	95	113	92
Pennsylvania	2,672	2,719	-1.7%	0	0	2,364	2,412	68	67	241	241
East North Central	13,908	13,073	6.4%	1,602	1,640	11,519	10,608	95	100	692	725
Illinois	5,642	5,154	9.5%	8	6	5,632	5,146	NM	NM	0	0
Indiana	2,867	2,281	25.7%	142	125	2,692	2,121	8	8	25	27
Michigan	3,053	3,288	-7.1%	848	914	1,863	2,006	60	76	283	292
Ohio	972	921	5.5%	13	14	822	755	NM	NM	134	151
Wisconsin	1,374	1,429	-3.9%	592	581	510	580	22	13	249	255
West North Central	27,728	24,446	13.4%	9,380	8,010	18,065	16,130	61	57	222	250
Iowa	9,263	8,372	10.6%	5,804	4,917	3,413	3,402	15	13	30	39
Kansas	6,223	4,541	37.0%	403	377	5,815	4,162	0	0	5	NM
Minnesota	5,457	5,359	1.8%	1,216	1,070	4,043	4,064	23	21	175	203
Missouri	592	518	14.2%	19	19	556	483	16	16	NM	NM
Nebraska	1,609	1,466	9.7%	120	121	1,481	1,338	7	7	0	0
North Dakota	3,268	3,086	5.9%	1,397	1,190	1,862	1,892	0	0	9	NM
South Dakota	1,317	1,104	19.3%	421	315	896	789	0	0	0	0
South Atlantic	10,062	9,241	8.9%	1,013	743	4,828	4,232	205	198	4,016	4,067
Delaware	57	57	-0.1%	NM	3	45	44	NM	NM	5	7
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,895	2,078	-8.8%	225	111	867	1,152	16	13	787	802
Georgia	1,984	1,830	8.4%	31	NM	477	305	5	13	1,471	1,507
Maryland	528	473	11.5%	4	4	467	402	15	13	42	54
North Carolina	2,356	1,591	48.1%	83	3	1,768	1,051	80	66	425	471
South Carolina	943	922	2.3%	173	178	130	145	0	0	641	599
Virginia	1,639	1,599	2.5%	495	438	413	443	86	90	645	628
West Virginia	661	690	-4.3%	0	0	661	690	0	0	0	0
East South Central	2,630	2,635	-0.2%	40	36	211	200	NM	NM	2,379	2,397
Alabama	1,344	1,365	-1.6%	NM	NM	107	95	0	0	1,234	1,269
Kentucky	192	202	-4.9%	37	36	NM	2	0	0	153	164
Mississippi	614	582	5.6%	0	0	5	5	0	0	609	577
Tennessee	481	486	-1.2%	0	0	96	98	NM	NM	383	387
West South Central	35,997	25,504	41.1%	720	766	33,138	22,553	36	31	2,102	2,154
Arkansas	597	638	-6.4%	0	0	64	44	NM	NM	531	593
Louisiana	1,099	1,098	0.1%	0	0	36	35	0	0	1,063	1,062
Oklahoma	8,256	5,563	48.4%	604	594	7,528	4,843	0	0	124	126
Texas	26,045	18,205	43.1%	116	172	25,509	17,631	34	30	385	373
Mountain	16,174	12,989	24.5%	1,618	1,384	14,323	11,402	52	42	182	161
Arizona	1,877	1,670	12.4%	216	223	1,651	1,438	10	10	0	0
Colorado	4,534	3,540	28.1%	46	64	4,478	3,467	8	8	NM	NM
Idaho	1,503	1,345	11.7%	77	62	1,252	1,129	0	0	174	154
Montana	985	914	7.8%	103	104	877	805	0	0	NM	NM
Nevada	2,586	2,250	15.0%	14	0	2,539	2,226	32	23	NM	NM
New Mexico	1,948	1,088	79.0%	99	60	1,847	1,026	NM	NM	0	0
Utah	688	478	44.0%	107	102	581	376	0	0	0	0
Wyoming	2,053	1,704	20.5%	956	769	1,097	935	0	0	0	0
Pacific Contiguous	27,639	24,694	11.9%	3,432	2,916	22,798	20,294	432	462	977	1,022
California	20,063	18,448	8.8%	855	902	18,515	16,824	417	445	276	276
Oregon	3,442	2,916	18.0%	550	454	2,701	2,214	8	9	184	239
Washington	4,134	3,330	24.1%	2,027	1,560	1,582	1,256	8	7	517	507
Pacific Noncontiguous	590	587	0.4%	89	74	349	369	99	100	52	44
Alaska	101	94	7.2%	51	47	24	23	22	22	4	NM
Hawaii	489	493	-0.9%	39	28	325	346	77	78	48	42
U.S. Total	145,470	124,055	17.3%	18,300	15,988	114,367	94,912	1,343	1,377	11,460	11,778

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	-31	-32	-2.4%	0	0	-31	-32	0	0	0	0
Connecticut	0	1	-60.1%	0	0	0	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-31	-32	-3.4%	0	0	-31	-32	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	-80	-97	-17.9%	-47	-51	-33	-46	0	0	0	0
New Jersey	-17	-15	13.3%	-17	-15	0	0	0	0	0	0
New York	-30	-36	-15.8%	-30	-36	0	0	0	0	0	0
Pennsylvania	-33	-46	-29.6%	0	0	-33	-46	0	0	0	0
East North Central	-63	-41	53.7%	-63	-41	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	-63	-41	53.7%	-63	-41	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	32	41	-21.7%	32	41	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	32	41	-21.7%	32	41	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-205	-261	-21.2%	-205	-261	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	-54	-63	-14.8%	-54	-63	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	-90	-103	-12.7%	-90	-103	0	0	0	0	0	0
Virginia	-62	-94	-34.7%	-62	-94	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-64	-50	26.9%	-64	-50	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	-64	-50	26.9%	-64	-50	0	0	0	0	0	0
West South Central	-2	8	-127.8%	-2	8	0	0	0	0	0	0
Arkansas	5	12	-59.4%	5	12	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-7	-4	72.7%	-7	-4	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-20	-17	18.0%	-20	-17	0	0	0	0	0	0
Arizona	7	7	-3.2%	7	7	0	0	0	0	0	0
Colorado	-27	-24	12.0%	-27	-24	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	113	79	43.1%	113	79	0	0	0	0	0	0
California	113	79	42.7%	113	79	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	-18.1%	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-321	-370	-13.4%	-257	-292	-64	-78	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.12.B. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	-205	-189	8.1%	0	0	-205	-189	0	0	0	0
Connecticut	1	-6	-108.7%	0	0	1	-6	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-205	-183	11.9%	0	0	-205	-183	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	-409	-439	-6.7%	-230	-235	-179	-204	0	0	0	0
New Jersey	-70	-74	-6.0%	-70	-74	0	0	0	0	0	0
New York	-161	-161	0.0%	-161	-161	0	0	0	0	0	0
Pennsylvania	-179	-204	-12.3%	0	0	-179	-204	0	0	0	0
East North Central	-197	-150	31.1%	-197	-150	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	-197	-150	31.1%	-197	-150	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	164	64	155.5%	164	64	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	164	64	155.5%	164	64	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-712	-923	-22.9%	-712	-923	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	-52	-291	-82.2%	-52	-291	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	-100.0%	0	0	0	0	0	0	0	0
South Carolina	-309	-317	-2.5%	-309	-317	0	0	0	0	0	0
Virginia	-350	-315	11.3%	-350	-315	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-227	-164	38.0%	-227	-164	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	-227	-164	38.0%	-227	-164	0	0	0	0	0	0
West South Central	1	-5	-124.2%	1	-5	0	0	0	0	0	0
Arkansas	27	15	82.6%	27	15	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-26	-20	31.5%	-26	-20	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-127	-126	0.7%	-127	-126	0	0	0	0	0	0
Arizona	6	-4	-238.9%	6	-4	0	0	0	0	0	0
Colorado	-133	-122	8.8%	-133	-122	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	-151	-71	113.8%	-151	-71	0	0	0	0	0	0
California	-148	-97	53.0%	-148	-97	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-2	26	-109.2%	-2	26	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-1,862	-2,003	-7.1%	-1,478	-1,610	-383	-393	0	0	0	0

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources
by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	168	155	8.4%	0	0	151	136	8	8	10	12
Connecticut	50	45	12.1%	0	0	50	45	0	0	0	0
Maine	31	32	-0.9%	0	0	14	12	8	8	10	12
Massachusetts	82	74	9.9%	0	0	82	74	0	0	0	0
New Hampshire	5	4	11.9%	0	0	5	4	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	206	203	1.3%	0	0	170	165	36	38	0	0
New Jersey	42	45	-7.4%	0	0	33	36	9	10	0	0
New York	82	84	-2.4%	0	0	62	65	19	19	0	0
Pennsylvania	82	74	10.9%	0	0	74	65	8	10	0	0
East North Central	99	100	-0.9%	3	7	14	14	16	21	66	58
Illinois	25	24	2.6%	0	0	0	0	0	0	25	24
Indiana	36	29	22.2%	0	0	0	0	NM	NM	34	27
Michigan	31	37	-15.6%	NM	4	14	12	14	20	2	1
Ohio	1	2	-47.3%	0	0	0	NM	0	0	1	0
Wisconsin	7	8	-15.3%	2	3	0	0	0	0	5	5
West North Central	43	45	-5.7%	21	25	13	12	NM	NM	6	5
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	NM	NM	NM	0	0	0	0	0	0	NM	NM
Minnesota	39	39	-0.1%	18	19	13	12	NM	NM	5	5
Missouri	0	3	-84.4%	0	3	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	NM	NM	NM	NM	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	407	379	7.4%	25	0	193	193	19	18	170	168
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	291	267	9.2%	25	0	110	111	0	0	156	156
Georgia	9	8	19.2%	0	0	0	0	0	0	9	8
Maryland	32	28	16.4%	0	0	32	27	0	NM	0	0
North Carolina	30	31	-1.6%	0	0	30	31	0	0	0	0
South Carolina	5	5	-5.2%	0	0	NM	NM	0	0	4	4
Virginia	39	41	-4.5%	0	0	20	23	19	18	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3	7	-55.2%	1	5	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	1	5	-79.8%	1	5	0	0	0	0	0	0
Mississippi	NM	NM	NM	0	0	0	0	0	0	NM	NM
Tennessee	2	2	9.3%	0	0	0	0	0	0	2	2
West South Central	97	107	-9.8%	0	0	3	NM	0	0	94	106
Arkansas	0	1	-73.9%	0	0	0	0	0	0	0	1
Louisiana	32	32	-0.9%	0	0	0	0	0	0	32	32
Oklahoma	3	NM	NM	0	0	1	0	0	0	NM	NM
Texas	61	72	-14.8%	0	0	NM	NM	0	0	60	70
Mountain	50	28	78.4%	NM	NM	30	22	0	0	20	5
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	NM	NM
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	29	21	40.8%	0	0	29	21	0	0	0	0
Nevada	NM	NM	NM	NM	NM	0	0	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	17	2	722.2%	0	0	NM	NM	0	0	16	2
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	84	94	-10.6%	0	NM	31	29	0	0	53	65
California	73	78	-6.5%	0	NM	20	19	0	0	53	59
Oregon	4	4	10.7%	0	0	4	4	0	0	0	0
Washington	6	12	-44.9%	0	0	6	6	0	0	0	6
Pacific Noncontiguous	14	17	-21.0%	0	1	0	1	13	16	0	0
Alaska	0	1	-100.0%	0	1	0	0	0	0	0	0
Hawaii	14	17	-17.3%	0	0	0	1	13	16	0	0
U.S. Total	1,171	1,136	3.0%	51	39	604	572	96	105	420	421

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Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.14.A. Utility Scale Facility Net Generation from Wind
by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	179	180	-0.4%	20	23	155	153	NM	NM	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	108	98	10.2%	0	0	108	98	0	0	0	0
Massachusetts	17	17	3.1%	NM	5	10	10	NM	NM	NM	NM
New Hampshire	29	35	-16.9%	0	0	29	35	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	NM	NM	0	0
Vermont	24	29	-18.0%	16	18	8	10	0	0	0	0
Middle Atlantic	427	526	-18.8%	0	0	427	526	0	0	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	238	316	-24.6%	0	0	238	316	0	0	NM	NM
Pennsylvania	187	208	-10.1%	0	0	187	208	0	0	0	0
East North Central	1,783	1,909	-6.6%	208	266	1,570	1,639	NM	NM	NM	NM
Illinois	855	890	-3.9%	NM	NM	854	888	NM	NM	0	0
Indiana	403	365	10.2%	0	0	402	365	NM	NM	0	0
Michigan	314	409	-23.3%	128	168	186	241	0	0	0	0
Ohio	89	95	-6.7%	NM	NM	83	91	NM	0	NM	NM
Wisconsin	123	150	-18.2%	78	96	44	54	0	0	NM	NM
West North Central	4,392	4,571	-3.9%	1,504	1,514	2,886	3,055	NM	NM	0	0
Iowa	1,336	1,608	-16.9%	851	955	484	652	NM	NM	0	0
Kansas	1,104	942	17.2%	69	77	1,035	864	0	0	0	0
Minnesota	760	896	-15.2%	191	179	567	715	NM	NM	0	0
Missouri	69	79	-12.6%	0	0	69	79	0	0	0	0
Nebraska	262	261	0.2%	14	17	248	244	0	0	0	0
North Dakota	625	574	8.9%	306	228	319	346	0	0	0	0
South Dakota	236	211	11.9%	73	57	163	154	0	0	0	0
South Atlantic	102	96	6.0%	0	0	102	96	NM	NM	0	0
Delaware	NM	NM	NM	0	0	0	0	NM	NM	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	28	21	30.4%	0	0	28	21	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	74	75	-0.8%	0	0	74	75	0	0	0	0
East South Central	3	3	-4.6%	0	0	3	3	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	3	3	-4.6%	0	0	3	3	0	0	0	0
West South Central	6,799	5,540	22.7%	130	154	6,666	5,382	NM	NM	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1,701	1,137	49.6%	107	129	1,595	1,008	0	0	0	0
Texas	5,097	4,403	15.8%	23	25	5,071	4,374	NM	NM	0	0
Mountain	1,824	1,475	23.6%	161	147	1,661	1,326	NM	NM	NM	NM
Arizona	55	44	23.3%	0	0	55	44	0	0	0	0
Colorado	739	632	17.0%	9	13	729	618	NM	NM	NM	NM
Idaho	197	183	7.6%	12	10	185	173	0	0	0	0
Montana	141	107	32.5%	15	14	126	93	0	0	0	0
Nevada	25	25	2.7%	0	0	25	25	0	0	0	0
New Mexico	335	183	83.7%	0	0	335	182	NM	NM	0	0
Utah	66	57	15.6%	0	0	66	57	0	0	0	0
Wyoming	265	244	8.3%	125	110	140	134	0	0	0	0
Pacific Contiguous	3,252	2,846	14.3%	660	480	2,591	2,365	NM	NM	NM	NM
California	1,602	1,672	-4.2%	91	94	1,509	1,577	NM	NM	NM	NM
Oregon	854	650	31.4%	164	130	690	520	0	0	0	0
Washington	797	524	51.9%	405	256	392	269	0	0	0	0
Pacific Noncontiguous	63	75	-16.4%	8	8	54	67	0	0	0	0
Alaska	12	13	-1.2%	8	8	NM	4	0	0	0	0
Hawaii	50	62	-19.4%	0	0	50	62	0	0	0	0
U.S. Total	18,824	17,221	9.3%	2,691	2,593	16,114	14,612	12	11	7	5

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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.14.B. Utility Scale Facility Net Generation from Wind

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	1,143	1,056	8.2%	112	129	1,011	910	17	15	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	694	579	19.8%	0	0	694	579	0	0	0	0
Massachusetts	100	99	1.8%	28	27	58	58	14	12	NM	NM
New Hampshire	207	210	-1.7%	0	0	207	210	0	0	0	0
Rhode Island	NM	6	NM	0	0	NM	NM	NM	NM	0	0
Vermont	135	161	-16.3%	85	102	50	59	0	0	0	0
Middle Atlantic	3,417	3,641	-6.2%	0	0	3,415	3,640	0	0	NM	NM
New Jersey	10	10	5.0%	0	0	10	10	0	0	0	0
New York	1,796	1,965	-8.6%	0	0	1,794	1,963	0	0	NM	NM
Pennsylvania	1,610	1,666	-3.4%	0	0	1,610	1,666	0	0	0	0
East North Central	11,365	10,488	8.4%	1,306	1,421	10,026	9,047	NM	NM	29	18
Illinois	5,390	4,892	10.2%	7	6	5,382	4,884	NM	NM	0	0
Indiana	2,592	2,039	27.1%	0	0	2,591	2,038	NM	NM	0	0
Michigan	2,050	2,223	-7.8%	842	913	1,208	1,310	0	0	0	0
Ohio	630	558	12.8%	7	6	595	537	NM	0	25	15
Wisconsin	703	776	-9.3%	450	495	250	278	0	0	NM	NM
West North Central	26,792	23,510	14.0%	9,156	7,812	17,621	15,684	15	15	0	0
Iowa	9,160	8,263	10.8%	5,793	4,907	3,365	3,355	NM	NM	0	0
Kansas	6,190	4,513	37.2%	403	377	5,787	4,135	0	0	0	0
Minnesota	4,763	4,642	2.6%	1,055	921	3,694	3,708	13	13	0	0
Missouri	536	466	15.1%	0	0	536	466	0	0	0	0
Nebraska	1,568	1,441	8.8%	87	103	1,481	1,338	0	0	0	0
North Dakota	3,258	3,082	5.7%	1,397	1,190	1,862	1,892	0	0	0	0
South Dakota	1,317	1,104	19.3%	421	315	896	789	0	0	0	0
South Atlantic	902	891	1.2%	0	0	899	889	NM	NM	0	0
Delaware	NM	NM	NM	0	0	0	0	NM	NM	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	241	201	19.9%	0	0	241	201	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	659	688	-4.3%	0	0	659	688	0	0	0	0
East South Central	22	23	-2.4%	0	0	22	23	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	22	23	-2.4%	0	0	22	23	0	0	0	0
West South Central	33,229	22,777	45.9%	714	703	32,499	22,061	16	NM	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	8,124	5,431	49.6%	602	594	7,522	4,837	0	0	0	0
Texas	25,105	17,346	44.7%	112	108	24,977	17,224	16	NM	0	0
Mountain	10,796	8,403	28.5%	1,178	996	9,613	7,404	NM	NM	NM	NM
Arizona	238	177	34.3%	0	0	238	177	0	0	0	0
Colorado	4,298	3,373	27.4%	46	64	4,249	3,307	NM	NM	NM	NM
Idaho	1,201	1,063	13.0%	73	59	1,128	1,005	0	0	0	0
Montana	980	909	7.8%	103	104	877	805	0	0	0	0
Nevada	126	131	-3.7%	0	0	126	131	0	0	0	0
New Mexico	1,632	811	101.2%	0	0	1,631	810	NM	NM	0	0
Utah	267	234	13.9%	0	0	267	234	0	0	0	0
Wyoming	2,053	1,704	20.5%	956	769	1,097	935	0	0	0	0
Pacific Contiguous	11,901	9,558	24.5%	2,593	2,058	9,303	7,496	NM	NM	NM	NM
California	5,569	4,613	20.7%	222	259	5,342	4,349	NM	NM	NM	NM
Oregon	2,947	2,369	24.4%	513	424	2,434	1,945	0	0	0	0
Washington	3,385	2,576	31.4%	1,858	1,374	1,527	1,202	0	0	0	0
Pacific Noncontiguous	290	308	-5.6%	51	47	240	261	0	0	0	0
Alaska	75	69	7.4%	51	47	24	23	0	0	0	0
Hawaii	216	238	-9.4%	0	0	216	238	0	0	0	0
U.S. Total	99,856	80,655	23.8%	15,110	13,165	84,649	67,414	60	52	36	24

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.15.A. Utility Scale Facility Net Generation from Biomass
by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	573	559	2.6%	50	47	420	406	11	13	92	93
Connecticut	75	69	9.7%	0	0	75	69	0	0	0	0
Maine	213	182	17.1%	0	0	113	80	8	9	92	93
Massachusetts	106	103	2.7%	0	0	106	103	NM	0	0	0
New Hampshire	126	156	-19.1%	26	32	97	121	3	3	0	0
Rhode Island	19	19	-0.7%	0	0	19	19	0	0	0	0
Vermont	34	30	12.3%	24	16	NM	NM	NM	NM	0	0
Middle Atlantic	490	474	3.4%	0	0	382	381	41	45	66	48
New Jersey	80	83	-3.6%	0	0	70	72	11	11	0	0
New York	197	197	0.0%	0	0	165	168	18	20	14	10
Pennsylvania	213	194	9.9%	0	0	148	142	13	13	52	38
East North Central	469	486	-3.6%	60	46	261	285	19	22	129	133
Illinois	48	46	5.0%	0	0	48	46	0	0	0	0
Indiana	34	33	1.0%	27	26	NM	NM	NM	NM	5	6
Michigan	202	210	-4.1%	0	0	130	136	14	21	58	53
Ohio	59	64	-8.1%	0	NM	42	41	0	0	17	23
Wisconsin	127	133	-4.6%	33	20	41	62	3	0	49	51
West North Central	190	195	-2.2%	49	44	84	89	5	9	52	52
Iowa	21	22	-1.9%	NM	NM	10	10	2	2	6	7
Kansas	6	5	6.3%	0	0	6	5	0	0	NM	0
Minnesota	148	152	-2.6%	35	34	66	72	NM	NM	45	45
Missouri	6	10	-38.8%	4	4	NM	NM	0	4	NM	NM
Nebraska	9	5	65.0%	7	4	0	0	NM	NM	0	0
North Dakota	NM	0	--	0	0	0	0	0	0	NM	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,450	1,507	-3.8%	137	132	459	507	31	33	823	835
Delaware	6	7	-0.7%	0	0	5	5	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	358	387	-7.3%	35	8	163	222	2	2	158	155
Georgia	348	370	-5.9%	0	0	57	44	NM	2	291	325
Maryland	53	45	17.2%	0	0	41	36	NM	NM	10	8
North Carolina	204	180	13.4%	0	0	101	84	6	7	98	89
South Carolina	190	194	-2.0%	35	41	NM	29	0	0	133	124
Virginia	289	323	-10.7%	67	84	70	87	20	20	132	133
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	502	500	0.4%	NM	8	31	27	0	0	462	465
Alabama	274	266	3.1%	NM	0	22	18	0	0	251	248
Kentucky	26	39	-32.8%	8	8	NM	NM	0	0	18	31
Mississippi	114	108	5.8%	0	0	NM	NM	0	0	113	107
Tennessee	87	87	0.7%	0	0	7	7	0	0	80	80
West South Central	483	490	-1.6%	2	14	79	66	3	3	399	407
Arkansas	91	123	-25.9%	0	0	9	8	NM	NM	82	115
Louisiana	226	201	12.6%	0	0	8	7	0	0	218	193
Oklahoma	25	25	-1.4%	0	0	NM	NM	0	0	24	24
Texas	140	141	-0.5%	2	14	61	49	3	3	75	74
Mountain	99	93	6.6%	NM	NM	57	55	0	0	41	36
Arizona	20	19	4.2%	0	NM	20	17	0	0	0	0
Colorado	NM	10	NM	0	0	NM	10	0	0	0	0
Idaho	59	54	9.7%	NM	NM	18	18	0	0	40	35
Montana	NM	NM	NM	0	0	0	0	0	0	NM	NM
Nevada	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	6	6	3.4%	0	0	6	6	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	704	846	-16.8%	43	51	390	497	72	81	199	217
California	494	593	-16.7%	22	13	346	449	69	78	56	53
Oregon	83	94	-11.7%	6	6	32	36	NM	2	43	50
Washington	128	160	-20.0%	15	33	12	11	NM	NM	99	114
Pacific Noncontiguous	32	32	-1.1%	5	3	0	0	18	21	9	7
Alaska	5	4	6.1%	0	0	0	0	4	4	NM	0
Hawaii	27	27	-2.3%	5	3	0	0	14	17	8	7
U.S. Total	4,992	5,181	-3.7%	355	349	2,164	2,312	201	227	2,273	2,293

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.15.B. Utility Scale Facility Net Generation from Biomass

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	3,004	3,105	-3.2%			2,234	2,171	49	68	483	625
Connecticut	361	316	14.3%	0	0	361	307	0	9	0	0
Maine	1,231	1,353	-9.0%	0	0	714	686	34	42	483	625
Massachusetts	493	490	0.7%	0	0	493	489	NM	NM	0	0
New Hampshire	642	666	-3.7%	109	124	520	527	13	16	0	0
Rhode Island	86	92	-6.0%	0	0	86	92	0	0	0	0
Vermont	190	187	1.4%	130	118	59	68	NM	NM	0	0
Middle Atlantic	2,426	2,371	2.3%	0	0	1,855	1,815	222	229	348	327
New Jersey	407	382	6.7%	0	0	335	311	72	71	0	0
New York	989	970	2.0%	0	0	793	786	85	93	111	91
Pennsylvania	1,029	1,019	1.0%	0	0	728	718	65	64	236	236
East North Central	2,362	2,445	-3.4%	268	211	1,344	1,433	89	96	662	705
Illinois	226	237	-4.4%	0	0	226	237	0	0	0	0
Indiana	160	159	0.7%	125	122	NM	2	7	8	25	27
Michigan	997	1,064	-6.3%	NM	NM	655	696	60	76	283	292
Ohio	309	333	-7.3%	NM	3	200	196	0	0	108	134
Wisconsin	670	652	2.7%	142	86	260	302	22	13	246	252
West North Central	920	926	-0.6%	224	198	429	437	46	42	222	250
Iowa	103	109	-5.3%	11	11	49	47	14	12	30	39
Kansas	31	28	12.6%	0	0	26	26	0	0	5	NM
Minnesota	691	715	-3.4%	161	149	345	355	10	8	175	203
Missouri	45	45	0.4%	19	19	9	9	15	16	NM	NM
Nebraska	41	25	61.5%	34	19	0	0	7	7	0	0
North Dakota	9	NM	NM	0	0	0	0	0	0	9	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	7,268	7,471	-2.7%	818	658	2,287	2,590	146	156	4,016	4,067
Delaware	30	31	-1.7%	0	0	25	24	0	0	5	7
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,788	1,981	-9.7%	153	42	833	1,124	15	12	787	802
Georgia	1,731	1,773	-2.3%	0	0	257	255	3	11	1,471	1,507
Maryland	220	222	-1.0%	0	0	165	157	13	11	42	54
North Carolina	919	943	-2.6%	0	0	465	442	28	31	425	471
South Carolina	941	920	2.2%	173	178	127	143	0	0	641	599
Virginia	1,637	1,599	2.4%	493	438	413	443	86	90	645	628
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	2,567	2,569	-0.1%	40	36	149	136	0	0	2,379	2,397
Alabama	1,344	1,365	-1.6%	NM	NM	107	95	0	0	1,234	1,269
Kentucky	192	202	-4.9%	37	36	NM	2	0	0	153	164
Mississippi	614	582	5.6%	0	0	5	5	0	0	609	577
Tennessee	417	421	-0.9%	0	0	35	34	0	0	383	387
West South Central	2,490	2,584	-3.7%	4	63	365	350	19	17	2,102	2,154
Arkansas	586	638	-8.2%	0	0	53	44	NM	NM	531	593
Louisiana	1,099	1,098	0.1%	0	0	36	35	0	0	1,063	1,062
Oklahoma	130	132	-1.7%	0	0	6	6	0	0	124	126
Texas	675	716	-5.7%	4	63	269	264	17	15	385	373
Mountain	455	436	4.2%	5	12	270	266	0	0	179	159
Arizona	87	93	-6.7%	NM	8	85	85	0	0	0	0
Colorado	57	54	6.0%	0	0	57	54	0	0	0	0
Idaho	261	241	8.5%	4	4	83	83	0	0	174	154
Montana	NM	NM	NM	0	0	0	0	0	0	NM	NM
Nevada	10	10	3.0%	0	0	10	10	0	0	0	0
New Mexico	5	6	-5.8%	0	0	5	6	0	0	0	0
Utah	30	29	2.6%	0	0	30	29	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	3,669	3,990	-8.1%	280	296	2,044	2,271	376	408	969	1,015
California	2,534	2,785	-9.0%	84	84	1,820	2,039	360	391	269	270
Oregon	387	452	-14.5%	27	26	168	178	8	9	184	239
Washington	748	754	-0.7%	169	186	55	54	8	7	517	507
Pacific Noncontiguous	168	160	4.6%	16	16	0	0	99	100	52	44
Alaska	26	25	6.4%	0	0	0	0	22	22	4	NM
Hawaii	141	136	4.3%	16	16	0	0	77	78	48	42
U.S. Total	25,328	26,058	-2.8%	1,894	1,732	10,977	11,469	1,046	1,115	11,411	11,743

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal
by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	371	347	6.7%	23	21	348	326	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	NM	NM	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	311	295	5.6%	0	0	311	295	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	49	42	16.5%	23	21	27	21	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,070	1,101	-2.8%	73	72	998	1,028	0	0	0	0
California	1,055	1,089	-3.1%	71	72	984	1,017	0	0	0	0
Oregon	15	11	33.0%	NM	0	14	11	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	17	18	-5.8%	0	0	17	18	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	17	18	-5.8%	0	0	17	18	0	0	0	0
U.S. Total	1,458	1,466	-0.5%	95	94	1,363	1,372	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
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Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.16.B. Utility Scale Facility Net Generation from Geothermal

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	1,799	1,688	6.6%	107	102	1,692	1,587	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	41	41	-1.1%	0	0	41	41	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,520	1,430	6.3%	0	0	1,520	1,430	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	233	212	10.2%	107	102	126	110	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,077	5,301	-4.2%	334	336	4,743	4,965	0	0	0	0
California	4,988	5,220	-4.4%	327	336	4,661	4,884	0	0	0	0
Oregon	89	81	9.3%	NM	0	82	81	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	93	91	2.1%	0	0	93	91	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	93	91	2.1%	0	0	93	91	0	0	0	0
U.S. Total	6,970	7,081	-1.6%	441	437	6,529	6,644	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal
by State, by Sector, May 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	14	15	-7.9%	14	15	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	14	15	-7.9%	14	15	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	116	98	18.6%	0	0	116	98	0	0	0	0
Arizona	88	88	0.2%	0	0	88	88	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	28	10	181.3%	0	0	28	10	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	259	234	10.7%	0	0	259	234	0	0	0	0
California	259	234	10.7%	0	0	259	234	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	389	347	12.1%	14	15	375	332	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.18.B. Utility Scale Facility Net Generation from Solar Thermal

by State, by Sector, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	39	39	-0.2%	39	39	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	39	39	-0.2%	39	39	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	342	304	12.7%	0	0	342	304	0	0	0	0
Arizona	268	261	2.5%	0	0	268	261	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	74	42	75.5%	0	0	74	42	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	866	891	-2.8%	0	0	866	891	0	0	0	0
California	866	891	-2.8%	0	0	866	891	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,247	1,234	1.1%	39	39	1,208	1,195	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 2.1.A. Coal: Consumption for Electricity Generation,
by Sector, 2006-May 2016 (Thousand Tons)**

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	1,030,556	753,390	269,412	347	7,408
2007	1,046,795	764,765	276,581	361	5,089
2008	1,042,335	760,326	276,565	369	5,075
2009	934,683	695,615	234,077	317	4,674
2010	979,684	721,431	249,814	314	8,125
2011	934,938	689,316	239,541	347	5,735
2012	825,734	615,467	205,295	307	4,665
2013	860,729	638,327	217,219	513	4,670
2014	853,634	624,235	224,568	202	4,629
2015	740,855	548,490	188,032	163	4,169
Year 2014					
January	83,647	61,084	22,129	27	407
February	76,160	55,073	20,699	27	362
March	72,124	51,559	20,147	22	396
April	58,065	41,151	16,541	16	357
May	64,033	47,114	16,521	12	385
June	74,328	55,542	18,365	15	406
July	81,495	60,238	20,821	16	420
August	81,074	60,222	20,422	14	417
Sept	69,127	50,728	17,998	12	389
October	61,129	44,987	15,772	11	359
November	64,651	46,561	17,720	14	356
December	67,799	49,976	17,434	16	373
Year 2015					
January	71,302	51,530	19,403	17	351
February	67,056	48,594	18,098	19	345
March	58,308	43,019	14,908	17	363
April	48,549	36,829	11,431	11	278
May	57,217	43,540	13,343	12	321
June	69,166	51,328	17,451	14	373
July	76,833	57,032	19,390	15	396
August	74,067	54,796	18,852	12	406
Sept	65,008	47,582	17,043	11	372
October	53,985	39,774	13,856	11	344
November	49,173	36,122	12,733	11	306
December	50,191	38,342	11,523	12	313
Year 2016					
January	62,151	46,090	15,729	13	319
February	50,649	38,053	12,285	14	297
March	39,923	31,511	8,089	14	309
April	39,064	28,973	9,825	10	256
May	45,165	34,071	10,818	9	267
Year to Date					
2014	354,029	255,980	96,037	104	1,908
2015	302,432	223,513	77,183	77	1,659
2016	236,953	178,697	56,746	60	1,449
Rolling 12 Months Ending in May					
2015	802,037	591,768	205,715	174	4,380
2016	675,375	503,674	167,595	147	3,959

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

**Table 2.1.B. Coal: Consumption for Useful Thermal Output,
by Sector, 2006-May 2016 (Thousand Tons)**

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	23,227	0	3,834	1,539	17,854
2007	22,810	0	3,795	1,566	17,449
2008	22,168	0	3,689	1,652	16,827
2009	20,507	0	3,935	1,481	15,091
2010	21,727	0	3,808	1,406	16,513
2011	21,532	0	3,628	1,321	16,584
2012	19,333	0	2,790	1,143	15,400
2013	18,350	0	2,416	843	15,090
2014	18,107	978	1,821	861	14,448
2015	17,723	1,233	1,933	697	13,859
Year 2014					
January	1,773	114	171	105	1,384
February	1,641	97	167	105	1,271
March	1,722	95	199	96	1,332
April	1,425	81	162	66	1,115
May	1,450	81	146	59	1,164
June	1,413	63	153	63	1,134
July	1,466	78	150	70	1,169
August	1,451	70	149	58	1,175
Sept	1,355	70	121	52	1,113
October	1,359	66	122	47	1,123
November	1,480	76	138	68	1,198
December	1,573	86	142	74	1,271
Year 2015					
January	1,669	91	176	79	1,325
February	1,454	85	150	72	1,146
March	1,543	86	163	71	1,223
April	1,374	68	137	53	1,116
May	1,420	76	172	50	1,123
June	1,374	87	173	50	1,064
July	1,494	83	190	53	1,168
August	1,448	72	171	51	1,154
Sept	1,396	73	172	46	1,105
October	1,283	77	128	50	1,028
November	1,752	344	149	59	1,200
December	1,517	91	154	64	1,207
Year 2016					
January	1,516	90	140	66	1,220
February	1,396	81	106	67	1,141
March	1,362	86	137	64	1,076
April	1,112	73	171	41	828
May	1,168	77	143	33	914
Year to Date					
2014	8,011	469	846	430	6,266
2015	7,460	406	797	324	5,933
2016	6,554	407	697	271	5,178
Rolling 12 Months Ending in May					
2015	17,556	915	1,772	755	14,114
2016	16,817	1,234	1,834	644	13,105

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.1.C. Coal: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-May 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	1,053,783	753,390	273,246	1,886	25,262
2007	1,069,606	764,765	280,377	1,927	22,537
2008	1,064,503	760,326	280,254	2,021	21,902
2009	955,190	695,615	238,012	1,798	19,766
2010	1,001,411	721,431	253,621	1,720	24,638
2011	956,470	689,316	243,168	1,668	22,319
2012	845,066	615,467	208,085	1,450	20,065
2013	879,078	638,327	219,635	1,356	19,761
2014	871,741	625,212	226,389	1,063	19,076
2015	758,578	549,724	189,966	861	18,028
Year 2014					
January	85,420	61,198	22,300	132	1,791
February	77,801	55,170	20,866	131	1,633
March	73,846	51,654	20,346	118	1,729
April	59,489	41,232	16,703	82	1,472
May	65,483	47,195	16,667	72	1,549
June	75,741	55,606	18,518	78	1,540
July	82,961	60,316	20,970	85	1,589
August	82,526	60,292	20,571	72	1,591
Sept	70,482	50,798	18,118	64	1,502
October	62,488	45,053	15,895	58	1,482
November	66,131	46,637	17,858	82	1,554
December	69,372	50,062	17,576	90	1,644
Year 2015					
January	72,972	51,621	19,579	96	1,676
February	68,510	48,679	18,248	91	1,491
March	59,851	43,106	15,071	88	1,586
April	49,922	36,897	11,567	64	1,394
May	58,637	43,616	13,514	62	1,444
June	70,540	51,415	17,624	64	1,437
July	78,327	57,115	19,580	68	1,565
August	75,514	54,868	19,023	63	1,560
Sept	66,404	47,655	17,215	58	1,477
October	55,268	39,851	13,984	61	1,372
November	50,925	36,466	12,882	70	1,507
December	51,707	38,433	11,678	77	1,520
Year 2016					
January	63,667	46,180	15,869	79	1,539
February	52,045	38,134	12,391	81	1,438
March	41,286	31,597	8,226	78	1,385
April	40,176	29,045	9,996	51	1,084
May	46,333	34,148	10,961	42	1,181
Year to Date					
2014	362,040	256,449	96,883	534	8,174
2015	309,892	223,920	77,980	401	7,592
2016	243,506	179,105	57,443	331	6,627
Rolling 12 Months Ending in May					
2015	819,593	592,683	207,486	929	18,494
2016	692,192	504,909	169,429	791	17,064

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.A. Petroleum Liquids: Consumption for Electricity Generation, by Sector, 2006-May 2016 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	73,821	53,529	17,179	327	2,786
2007	82,433	56,910	22,793	250	2,480
2008	53,846	38,995	13,152	160	1,538
2009	43,562	31,847	9,880	184	1,652
2010	40,103	30,806	8,278	164	855
2011	27,326	20,844	5,633	133	716
2012	22,604	17,521	4,110	272	702
2013	23,231	16,827	5,494	328	582
2014	31,531	19,652	10,689	451	739
2015	29,545	19,071	9,319	391	763
Year 2014					
January	10,190	4,468	5,487	112	122
February	3,117	1,879	1,099	58	81
March	3,476	1,917	1,443	43	72
April	1,556	1,283	200	31	42
May	1,647	1,296	274	22	56
June	1,502	1,179	246	27	50
July	1,696	1,308	311	24	53
August	1,751	1,310	372	23	45
Sept	1,645	1,296	274	24	50
October	1,550	1,218	251	28	53
November	1,681	1,230	362	28	60
December	1,721	1,268	368	30	54
Year 2015					
January	3,356	2,097	1,120	55	85
February	8,725	3,668	4,774	164	119
March	1,828	1,261	471	25	72
April	1,550	1,248	229	17	57
May	1,740	1,274	375	20	70
June	1,773	1,409	286	20	57
July	2,041	1,540	423	24	54
August	1,861	1,453	337	22	49
Sept	1,719	1,265	392	16	45
October	1,555	1,234	268	9	44
November	1,760	1,389	306	8	57
December	1,637	1,233	339	11	55
Year 2016					
January	2,380	1,713	592	11	64
February	2,129	1,435	629	14	NM
March	1,389	1,073	275	NM	34
April	1,335	1,042	252	10	32
May	1,601	1,207	325	NM	58
Year to Date					
2014	19,986	10,843	8,503	266	373
2015	17,200	9,547	6,969	281	403
2016	8,835	6,470	2,073	53	239
Rolling 12 Months Ending in May					
2015	28,744	18,356	9,154	465	768
2016	21,181	15,994	4,424	NM	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed. The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.B. Petroleum Liquids: Consumption for Useful Thermal Output, by Sector, 2006-May 2016 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	14,077	0	1,153	559	12,365
2007	13,462	0	1,303	441	11,718
2008	7,533	0	1,311	461	5,762
2009	8,128	0	1,301	293	6,534
2010	4,866	0	1,086	212	3,567
2011	3,826	0	1,004	168	2,654
2012	3,097	0	992	122	1,984
2013	3,456	0	1,050	498	1,908
2014	3,099	64	1,170	216	1,650
2015	3,081	64	1,223	184	1,610
Year 2014					
January	643	45	189	115	294
February	336	5	88	44	199
March	301	7	101	27	165
April	203	0	86	4	114
May	211	1	89	5	116
June	208	1	90	3	114
July	195	1	93	4	97
August	201	1	108	3	89
Sept	173	1	62	2	109
October	208	0	92	2	114
November	220	0	90	4	125
December	200	1	80	4	114
Year 2015					
January	329	9	109	26	185
February	551	46	205	61	238
March	242	1	90	12	139
April	207	0	83	7	116
May	215	0	86	10	119
June	215	1	83	10	121
July	219	1	98	12	109
August	201	1	92	10	98
Sept	240	1	94	9	136
October	220	2	101	8	108
November	226	1	89	9	128
December	216	1	94	10	112
Year 2016					
January	242	4	87	18	133
February	219	7	72	16	NM
March	180	0	91	NM	80
April	189	1	82	11	95
May	225	0	89	NM	123
Year to Date					
2014	1,694	59	554	195	887
2015	1,543	57	572	117	798
2016	1,055	13	421	67	554
Rolling 12 Months Ending in May					
2015	2,948	62	1,188	138	1,560
2016	2,593	20	1,072	NM	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed. The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-May 2016 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	87,898	53,529	18,332	886	15,150
2007	95,895	56,910	24,097	691	14,198
2008	61,379	38,995	14,463	621	7,300
2009	51,690	31,847	11,181	477	8,185
2010	44,968	30,806	9,364	376	4,422
2011	31,152	20,844	6,637	301	3,370
2012	25,702	17,521	5,102	394	2,685
2013	26,687	16,827	6,544	826	2,490
2014	34,630	19,716	11,859	667	2,389
2015	32,626	19,135	10,543	575	2,373
Year 2014					
January	10,833	4,513	5,677	227	416
February	3,453	1,885	1,187	101	280
March	3,776	1,924	1,545	70	237
April	1,760	1,283	286	35	156
May	1,858	1,296	363	27	172
June	1,711	1,180	336	30	164
July	1,890	1,309	404	28	150
August	1,952	1,311	481	26	134
Sept	1,818	1,297	336	26	159
October	1,758	1,219	343	30	166
November	1,900	1,230	453	32	186
December	1,921	1,269	449	34	169
Year 2015					
January	3,685	2,105	1,229	81	271
February	9,276	3,715	4,979	225	357
March	2,070	1,262	561	37	211
April	1,757	1,248	311	24	173
May	1,954	1,274	461	30	189
June	1,988	1,410	369	30	179
July	2,260	1,540	521	36	163
August	2,062	1,454	429	32	147
Sept	1,959	1,266	487	25	182
October	1,774	1,236	369	17	152
November	1,986	1,390	394	17	185
December	1,854	1,234	432	21	166
Year 2016					
January	2,623	1,717	680	29	197
February	2,348	1,443	701	30	NM
March	1,569	1,074	367	NM	114
April	1,524	1,043	333	21	127
May	1,826	1,207	414	NM	181
Year to Date					
2014	21,680	10,901	9,057	461	1,261
2015	18,743	9,604	7,541	397	1,200
2016	9,890	6,483	2,494	120	793
Rolling 12 Months Ending in May					
2015	31,693	18,419	10,342	603	2,329
2016	23,773	16,014	5,496	NM	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed. The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2006-May 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	7,363	3,619	3,286	1	456
2007	6,036	2,808	2,715	2	512
2008	5,417	2,296	2,704	1	416
2009	4,821	2,761	1,724	1	335
2010	4,994	3,325	1,354	2	313
2011	5,012	3,449	1,277	1	286
2012	3,675	2,105	756	1	812
2013	4,852	3,409	779	1	662
2014	4,412	3,440	599	2	371
2015	4,088	3,119	672	2	295
Year 2014					
January	436	349	55	0	32
February	361	275	56	0	30
March	421	332	57	0	31
April	303	212	55	0	36
May	393	314	49	0	30
June	418	339	46	0	33
July	385	299	54	0	33
August	382	298	51	0	33
Sept	372	281	62	0	29
October	230	178	23	0	29
November	288	228	33	0	27
December	424	335	60	0	29
Year 2015					
January	400	312	57	0	30
February	419	332	57	0	31
March	278	195	60	0	23
April	301	213	59	0	29
May	343	260	59	0	23
June	305	233	55	0	17
July	421	333	59	0	28
August	397	311	59	0	27
Sept	381	294	61	0	26
October	312	231	57	0	24
November	253	174	62	0	NM
December	278	230	26	0	21
Year 2016					
January	346	302	17	0	27
February	331	272	39	0	19
March	369	283	63	0	23
April	396	326	43	0	27
May	376	296	52	0	28
Year to Date					
2014	1,914	1,482	271	1	159
2015	1,740	1,312	292	1	135
2016	1,818	1,478	215	1	124
Rolling 12 Months Ending in May					
2015	4,239	3,270	619	2	347
2016	4,166	3,285	595	2	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed. The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases. See the Technical Notes for fuel conversion factors.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2006-May 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	1,259	0	195	9	1,055
2007	1,262	0	162	11	1,090
2008	897	0	119	9	769
2009	1,007	0	126	8	873
2010	1,059	0	98	11	950
2011	1,080	0	112	6	962
2012	1,346	0	113	11	1,222
2013	1,486	0	96	11	1,379
2014	1,283	3	90	16	1,174
2015	1,362	9	110	16	1,227
Year 2014					
January	105	0	9	2	95
February	93	1	7	1	84
March	106	0	8	2	96
April	116	0	9	2	105
May	110	0	8	1	102
June	109	0	0	0	109
July	114	0	5	0	109
August	112	0	9	2	101
Sept	113	0	9	2	102
October	86	0	9	1	75
November	104	1	9	2	92
December	114	0	9	2	103
Year 2015					
January	140	0	10	2	128
February	135	1	9	2	124
March	147	1	9	2	136
April	120	1	9	1	108
May	101	1	10	0	90
June	116	2	9	0	106
July	104	1	9	0	94
August	104	0	9	2	94
Sept	107	0	8	2	97
October	83	1	8	2	72
November	117	3	10	2	NM
December	87	0	10	1	75
Year 2016					
January	83	0	10	2	70
February	100	0	9	2	88
March	109	0	10	2	97
April	71	0	6	0	64
May	70	0	6	0	64
Year to Date					
2014	530	1	40	7	481
2015	644	3	46	8	586
2016	433	1	42	6	384
Rolling 12 Months Ending in May					
2015	1,397	5	96	17	1,279
2016	1,152	8	105	14	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

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Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-May 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	8,622	3,619	3,482	10	1,511
2007	7,299	2,808	2,877	12	1,602
2008	6,314	2,296	2,823	10	1,184
2009	5,828	2,761	1,850	9	1,209
2010	6,053	3,325	1,452	12	1,264
2011	6,092	3,449	1,388	6	1,248
2012	5,021	2,105	869	13	2,034
2013	6,338	3,409	875	12	2,041
2014	5,695	3,443	689	18	1,545
2015	5,450	3,128	781	18	1,522
Year 2014					
January	541	349	63	2	127
February	454	276	63	2	113
March	527	332	65	2	128
April	418	212	64	2	141
May	504	314	57	1	132
June	527	339	46	0	141
July	499	299	58	0	142
August	494	298	59	2	134
Sept	485	281	70	2	131
October	316	178	32	2	104
November	393	229	42	2	120
December	538	335	69	2	132
Year 2015					
January	540	313	67	3	158
February	555	332	65	2	155
March	425	196	69	2	159
April	420	213	68	2	137
May	444	261	69	0	113
June	422	235	64	0	123
July	525	334	68	0	123
August	501	311	68	2	121
Sept	488	294	70	2	122
October	396	232	66	2	96
November	370	177	72	2	NM
December	365	230	37	2	96
Year 2016					
January	429	302	27	3	98
February	431	272	49	2	108
March	478	283	74	2	119
April	467	326	50	0	91
May	447	296	58	0	92
Year to Date					
2014	2,443	1,483	312	8	641
2015	2,383	1,315	338	9	722
2016	2,251	1,479	257	7	508
Rolling 12 Months Ending in May					
2015	5,635	3,275	715	19	1,626
2016	5,318	3,292	700	16	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

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Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

See the Technical Notes for fuel conversion factors.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2006-May 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	6,461,615	2,478,396	3,412,826	34,623	535,770
2007	7,089,342	2,736,418	3,765,194	34,087	553,643
2008	6,895,843	2,730,134	3,612,197	33,403	520,109
2009	7,121,069	2,911,279	3,655,712	34,279	519,799
2010	7,680,185	3,290,993	3,794,423	39,462	555,307
2011	7,883,865	3,446,087	3,819,107	47,170	571,501
2012	9,484,710	4,101,927	4,686,260	63,116	633,407
2013	8,596,299	3,970,447	3,917,131	66,570	642,152
2014	8,544,387	3,895,008	3,954,032	71,957	623,390
2015	10,048,346	4,733,041	4,624,104	73,547	617,654
Year 2014					
January	694,661	324,657	309,522	6,411	54,071
February	579,819	265,645	261,103	5,180	47,892
March	591,101	271,638	263,442	5,292	50,729
April	579,336	270,132	256,256	4,967	47,981
May	680,193	323,448	300,470	5,761	50,513
June	754,126	348,327	349,049	6,119	50,630
July	880,805	393,011	425,395	6,966	55,433
August	935,170	426,346	445,556	7,430	55,839
Sept	805,960	355,962	391,332	6,396	52,270
October	736,039	323,456	356,020	5,939	50,625
November	633,279	288,760	287,096	5,496	51,927
December	673,898	303,627	308,792	5,999	55,480
Year 2015					
January	747,937	342,461	344,326	6,033	55,117
February	677,621	326,498	299,026	5,199	46,898
March	736,005	346,153	335,668	6,169	48,015
April	694,463	328,898	314,913	5,271	45,382
May	768,905	358,129	355,250	6,174	49,353
June	926,723	446,829	421,584	6,182	52,128
July	1,088,254	511,438	514,942	6,765	55,110
August	1,069,342	498,759	508,301	6,936	55,346
Sept	933,818	434,832	440,230	6,418	52,339
October	827,292	383,229	388,757	6,080	49,227
November	770,211	365,775	345,943	6,088	52,403
December	807,773	390,040	355,164	6,233	56,336
Year 2016					
January	808,418	388,873	360,075	6,291	53,178
February	722,190	352,524	314,536	5,583	49,547
March	772,107	379,420	334,202	6,005	52,479
April	757,330	368,386	333,568	5,277	50,098
May	839,403	407,322	374,139	5,484	52,459
Year to Date					
2014	3,125,110	1,455,520	1,390,793	27,611	251,186
2015	3,624,933	1,702,139	1,649,183	28,846	244,765
2016	3,899,447	1,896,525	1,716,520	28,641	257,761
Rolling 12 Months Ending in May					
2015	9,044,209	4,141,627	4,212,422	73,192	616,969
2016	10,322,860	4,927,427	4,691,441	73,342	630,650

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2006-May 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	942,817	0	330,878	33,112	578,828
2007	872,579	0	339,796	35,987	496,796
2008	793,537	0	326,048	32,813	434,676
2009	816,787	0	305,542	41,275	469,970
2010	821,775	0	301,769	46,324	473,683
2011	839,681	0	308,669	39,856	491,155
2012	886,103	0	322,607	47,883	515,613
2013	882,385	0	303,177	51,057	528,151
2014	865,146	4,926	292,016	46,635	521,569
2015	919,958	8,525	305,425	53,462	552,546
Year 2014					
January	87,362	527	28,175	7,205	51,455
February	68,875	539	23,822	3,527	40,988
March	72,690	476	25,252	3,245	43,717
April	67,023	286	22,224	3,085	41,428
May	67,861	224	22,787	3,272	41,578
June	67,490	274	23,101	3,460	40,656
July	72,370	267	24,630	3,749	43,724
August	74,882	441	25,464	4,031	44,946
Sept	69,772	367	23,285	3,731	42,390
October	71,722	431	23,484	3,776	44,032
November	70,483	534	24,002	3,672	42,274
December	74,615	561	25,790	3,883	44,381
Year 2015					
January	79,362	751	26,697	4,911	47,004
February	73,002	721	24,341	4,545	43,395
March	80,866	586	26,950	4,709	48,621
April	73,667	589	24,070	3,935	45,072
May	74,544	584	24,665	4,259	45,036
June	73,185	637	24,293	4,153	44,103
July	77,182	755	26,611	4,322	45,493
August	79,498	851	26,684	4,459	47,504
Sept	74,870	753	26,024	4,545	43,548
October	75,092	687	24,958	4,243	45,205
November	77,529	779	24,812	4,582	47,356
December	81,160	830	25,321	4,799	50,210
Year 2016					
January	83,303	1,101	26,477	5,163	50,563
February	75,776	955	23,992	4,773	46,056
March	78,329	933	25,132	4,746	47,518
April	76,801	637	23,407	4,994	47,763
May	76,262	612	25,199	4,580	45,871
Year to Date					
2014	363,811	2,052	122,260	20,332	219,166
2015	381,441	3,232	126,723	22,359	229,127
2016	390,470	4,238	124,206	24,256	237,771
Rolling 12 Months Ending in May					
2015	882,776	6,105	296,479	48,661	531,530
2016	928,987	9,531	302,908	55,359	561,189

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-May 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	7,404,432	2,478,396	3,743,704	67,735	1,114,597
2007	7,961,922	2,736,418	4,104,991	70,074	1,050,439
2008	7,689,380	2,730,134	3,938,245	66,216	954,785
2009	7,937,856	2,911,279	3,961,254	75,555	989,769
2010	8,501,960	3,290,993	4,096,192	85,786	1,028,990
2011	8,723,546	3,446,087	4,127,777	87,026	1,062,657
2012	10,370,812	4,101,927	5,008,867	110,999	1,149,020
2013	9,478,685	3,970,447	4,220,309	117,626	1,170,303
2014	9,409,532	3,899,934	4,246,048	118,591	1,144,959
2015	10,968,304	4,741,566	4,929,529	127,009	1,170,200
Year 2014					
January	782,023	325,184	337,697	13,616	105,526
February	648,695	266,184	284,925	8,706	88,880
March	663,791	272,114	288,694	8,537	94,446
April	646,360	270,418	278,481	8,052	89,409
May	748,053	323,672	323,257	9,033	92,091
June	821,616	348,601	372,150	9,580	91,286
July	953,174	393,278	450,025	10,715	99,157
August	1,010,052	426,786	471,019	11,461	100,785
Sept	875,732	356,329	414,618	10,126	94,659
October	807,761	323,887	379,503	9,715	94,657
November	703,762	289,294	311,098	9,169	94,202
December	748,513	304,188	334,581	9,883	99,861
Year 2015					
January	827,300	343,212	371,023	10,944	102,121
February	750,623	327,219	323,367	9,744	90,293
March	816,872	346,739	362,619	10,878	96,636
April	768,130	329,487	338,983	9,206	90,454
May	843,449	358,712	379,915	10,433	94,388
June	999,909	447,466	445,877	10,335	96,231
July	1,165,436	512,193	541,554	11,087	100,603
August	1,148,840	499,610	534,984	11,395	102,850
Sept	1,008,688	435,585	466,254	10,963	95,887
October	902,384	383,916	413,714	10,322	94,431
November	847,739	366,555	370,755	10,671	99,759
December	888,933	390,870	380,485	11,032	106,546
Year 2016					
January	891,720	389,973	386,552	11,454	103,741
February	797,966	353,479	338,528	10,357	95,602
March	850,435	380,353	359,334	10,751	99,997
April	834,131	369,023	356,975	10,271	97,861
May	915,665	407,934	399,338	10,064	98,330
Year to Date					
2014	3,488,921	1,457,572	1,513,054	47,943	470,352
2015	4,006,374	1,705,370	1,775,906	51,205	473,892
2016	4,289,917	1,900,763	1,840,726	52,897	495,531
Rolling 12 Months Ending in May					
2015	9,926,985	4,147,732	4,508,901	121,853	1,148,499
2016	11,251,847	4,936,958	4,994,349	128,701	1,191,839

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2006-May 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	160,033	16,617	136,108	6,644	664
2007	166,774	17,442	144,104	4,598	630
2008	195,777	20,465	169,547	5,235	530
2009	206,792	19,583	180,689	5,931	589
2010	218,331	19,975	192,428	5,535	393
2011	232,795	22,086	180,856	29,469	384
2012	256,376	25,193	201,965	26,672	2,545
2013	271,967	27,259	211,942	28,143	4,623
2014	285,982	25,819	228,447	27,038	4,678
2015	326,455	31,112	263,077	27,041	5,225
Year 2014					
January	24,810	2,187	19,717	2,506	401
February	23,764	1,997	19,121	2,289	357
March	24,623	2,107	19,714	2,388	414
April	24,489	2,133	19,679	2,260	416
May	24,111	2,136	19,380	2,190	404
June	24,096	2,173	19,233	2,294	396
July	26,390	2,372	21,117	2,498	404
August	25,163	2,332	20,037	2,403	391
Sept	23,690	2,143	18,898	2,290	359
October	21,697	2,148	17,099	2,092	358
November	20,698	2,030	16,561	1,723	385
December	22,451	2,062	17,892	2,105	393
Year 2015					
January	28,955	2,743	22,785	2,902	525
February	25,187	2,354	19,871	2,499	462
March	27,068	2,540	21,358	2,676	494
April	26,169	2,554	21,454	1,814	346
May	27,389	2,540	22,528	1,932	389
June	26,408	2,629	21,537	1,876	366
July	28,301	2,783	23,092	2,018	407
August	28,004	2,720	22,933	1,962	389
Sept	25,387	2,434	20,776	1,817	359
October	27,510	2,547	22,111	2,368	483
November	27,126	2,488	21,445	2,683	509
December	28,952	2,778	23,185	2,493	495
Year 2016					
January	28,588	2,679	22,961	2,479	469
February	25,794	2,456	20,747	2,181	410
March	26,295	2,453	20,637	2,687	518
April	26,741	2,577	21,776	1,933	455
May	27,251	2,595	22,214	1,978	464
Year to Date					
2014	121,796	10,560	97,611	11,633	1,992
2015	134,767	12,731	107,996	11,824	2,217
2016	134,668	12,760	108,334	11,258	2,316
Rolling 12 Months Ending in May					
2015	298,953	27,990	238,832	27,229	4,902
2016	326,355	31,141	263,415	26,475	5,324

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

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Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

**Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output,
by Sector, 2006-May 2016 (Million Cubic Feet)**

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	2,051	0	525	1,094	433
2007	1,988	0	386	1,102	501
2008	1,025	0	454	433	138
2009	793	0	545	176	72
2010	1,623	0	1,195	370	58
2011	3,195	0	2,753	351	91
2012	3,189	0	2,788	340	61
2013	831	0	261	423	147
2014	1,710	176	525	674	335
2015	2,997	209	1,376	917	495
Year 2014					
January	169	20	62	61	25
February	148	18	64	44	23
March	132	19	41	44	27
April	137	19	28	60	30
May	144	19	33	64	29
June	154	17	54	54	29
July	179	14	70	64	30
August	161	15	62	55	30
Sept	140	14	47	51	28
October	101	2	21	53	25
November	112	3	17	64	29
December	132	15	26	61	30
Year 2015					
January	562	17	251	182	112
February	527	16	232	178	101
March	386	17	169	128	72
April	69	17	38	14	0
May	72	18	39	16	0
June	69	18	35	16	0
July	93	19	49	23	2
August	82	18	40	22	2
Sept	66	17	35	15	0
October	267	17	130	68	51
November	476	17	204	163	92
December	328	19	153	93	63
Year 2016					
January	437	18	189	146	84
February	401	0	195	117	89
March	575	0	295	145	134
April	470	0	237	121	112
May	225	0	117	54	54
Year to Date					
2014	731	95	229	273	134
2015	1,616	85	729	516	286
2016	2,109	18	1,033	584	473
Rolling 12 Months Ending in May					
2015	2,595	166	1,025	917	487
2016	3,489	142	1,680	985	683

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

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Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-May 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	162,084	16,617	136,632	7,738	1,096
2007	168,762	17,442	144,490	5,699	1,131
2008	196,802	20,465	170,001	5,668	668
2009	207,585	19,583	181,234	6,106	661
2010	219,954	19,975	193,623	5,905	451
2011	235,990	22,086	183,609	29,820	474
2012	259,564	25,193	204,753	27,012	2,606
2013	272,798	27,259	212,203	28,566	4,770
2014	287,692	25,995	228,971	27,713	5,013
2015	329,451	31,320	264,453	27,958	5,720
Year 2014					
January	24,980	2,207	19,779	2,567	426
February	23,912	2,014	19,185	2,334	379
March	24,755	2,126	19,755	2,432	442
April	24,625	2,152	19,708	2,320	446
May	24,255	2,155	19,413	2,254	433
June	24,250	2,190	19,287	2,348	425
July	26,569	2,386	21,187	2,561	434
August	25,324	2,347	20,099	2,458	421
Sept	23,830	2,158	18,944	2,341	387
October	21,798	2,150	17,119	2,145	383
November	20,811	2,033	16,578	1,786	414
December	22,584	2,077	17,918	2,166	423
Year 2015					
January	29,517	2,760	23,036	3,084	637
February	25,713	2,369	20,104	2,677	563
March	27,453	2,557	21,527	2,803	566
April	26,238	2,572	21,492	1,828	346
May	27,462	2,557	22,567	1,948	389
June	26,477	2,647	21,572	1,892	366
July	28,394	2,802	23,142	2,041	409
August	28,086	2,738	22,973	1,984	391
Sept	25,453	2,451	20,811	1,832	359
October	27,777	2,565	22,241	2,436	534
November	27,602	2,505	21,649	2,846	601
December	29,280	2,797	23,339	2,586	557
Year 2016					
January	29,025	2,698	23,149	2,625	553
February	26,195	2,456	20,942	2,298	499
March	26,870	2,453	20,932	2,833	653
April	27,211	2,577	22,013	2,054	567
May	27,476	2,595	22,331	2,032	518
Year to Date					
2014	122,527	10,655	97,840	11,906	2,126
2015	136,384	12,816	108,725	12,340	2,502
2016	136,777	12,778	109,368	11,842	2,789
Rolling 12 Months Ending in May					
2015	301,548	28,156	239,857	28,146	5,389
2016	329,845	31,283	265,095	27,460	6,007

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

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Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2006-May 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	19,629	500	17,343	1,761	25
2007	19,576	553	17,116	1,785	122
2008	19,805	509	17,487	1,809	0
2009	19,669	465	17,048	2,155	0
2010	19,437	402	16,802	2,233	0
2011	16,972	388	14,625	1,955	4
2012	16,968	418	14,235	2,304	12
2013	17,007	456	14,057	2,485	8
2014	16,706	444	13,809	2,447	6
2015	15,643	766	12,670	2,202	4
Year 2014					
January	1,381	28	1,131	221	0
February	1,205	24	1,014	166	0
March	1,390	38	1,165	187	0
April	1,371	44	1,127	200	0
May	1,455	42	1,200	214	1
June	1,418	40	1,170	207	1
July	1,489	44	1,224	220	1
August	1,469	38	1,210	220	1
Sept	1,384	38	1,141	205	1
October	1,374	40	1,133	200	0
November	1,373	32	1,139	201	0
December	1,397	36	1,155	205	1
Year 2015					
January	1,293	31	1,068	194	1
February	1,137	24	944	168	1
March	1,230	28	1,010	192	1
April	1,241	41	1,020	180	0
May	1,297	45	1,076	176	0
June	1,322	44	1,103	175	0
July	1,451	104	1,153	194	0
August	1,386	101	1,105	181	0
Sept	1,289	97	1,010	183	0
October	1,297	94	1,028	174	1
November	1,307	70	1,042	194	1
December	1,393	89	1,111	193	1
Year 2016					
January	1,333	95	1,058	179	1
February	1,210	83	972	154	1
March	1,267	95	963	207	1
April	1,365	75	1,097	191	NM
May	1,379	104	1,094	180	0
Year to Date					
2014	6,803	177	5,636	988	2
2015	6,198	169	5,118	909	2
2016	6,554	452	5,185	912	4
Rolling 12 Months Ending in May					
2015	16,101	436	13,290	2,368	6
2016	15,999	1,050	12,738	2,204	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

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Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2006-May 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	2,840	0	725	1,595	520
2007	2,219	0	768	1,136	315
2008	2,328	0	806	1,514	8
2009	2,426	0	823	1,466	137
2010	2,287	0	819	1,316	152
2011	2,044	0	742	1,148	154
2012	1,986	0	522	1,273	190
2013	1,865	0	517	1,160	187
2014	1,955	0	650	1,104	200
2015	1,853	0	648	1,033	172
Year 2014					
January	203	0	59	126	17
February	140	0	49	76	15
March	154	0	52	86	15
April	155	0	58	82	15
May	166	0	57	92	18
June	163	0	57	90	16
July	164	0	54	93	17
August	161	0	47	92	22
Sept	157	0	48	92	18
October	165	0	56	93	17
November	158	0	55	88	15
December	169	0	59	93	17
Year 2015					
January	170	0	68	89	14
February	129	0	48	71	10
March	164	0	60	89	14
April	161	0	54	91	16
May	156	0	48	93	15
June	143	0	45	83	15
July	160	0	54	90	16
August	146	0	51	81	14
Sept	149	0	48	86	15
October	159	0	57	87	15
November	149	0	55	81	13
December	167	0	60	92	15
Year 2016					
January	155	0	63	81	12
February	163	0	73	78	12
March	194	0	82	98	14
April	153	0	51	90	NM
May	157	0	50	93	14
Year to Date					
2014	818	0	275	463	80
2015	780	0	278	433	69
2016	821	0	318	440	63
Rolling 12 Months Ending in May					
2015	1,917	0	653	1,074	190
2016	1,895	0	688	1,040	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-May 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	22,469	500	18,068	3,356	545
2007	21,796	553	17,885	2,921	437
2008	22,134	509	18,294	3,323	8
2009	22,095	465	17,872	3,622	137
2010	21,725	402	17,621	3,549	152
2011	19,016	388	15,367	3,103	158
2012	18,954	418	14,757	3,577	203
2013	18,871	456	14,574	3,646	195
2014	18,661	444	14,459	3,551	206
2015	17,496	766	13,318	3,235	177
Year 2014					
January	1,584	28	1,190	347	18
February	1,345	24	1,063	242	15
March	1,544	38	1,217	273	16
April	1,526	44	1,184	283	15
May	1,622	42	1,256	306	18
June	1,581	40	1,227	297	17
July	1,653	44	1,279	313	18
August	1,629	38	1,257	312	22
Sept	1,541	38	1,188	297	18
October	1,540	40	1,189	293	17
November	1,531	32	1,194	289	15
December	1,566	36	1,214	299	17
Year 2015					
January	1,463	31	1,135	282	15
February	1,266	24	992	239	11
March	1,394	28	1,070	281	14
April	1,402	41	1,074	270	16
May	1,453	45	1,123	269	16
June	1,465	44	1,148	258	15
July	1,611	104	1,207	284	16
August	1,532	101	1,156	261	14
Sept	1,438	97	1,057	269	15
October	1,456	94	1,085	261	16
November	1,455	70	1,097	274	14
December	1,561	89	1,171	285	16
Year 2016					
January	1,488	95	1,121	260	13
February	1,373	83	1,045	232	13
March	1,461	95	1,045	305	15
April	1,517	75	1,148	281	NM
May	1,535	104	1,145	273	14
Year to Date					
2014	7,620	177	5,911	1,451	82
2015	6,978	169	5,395	1,342	71
2016	7,375	452	5,503	1,352	67
Rolling 12 Months Ending in May					
2015	18,018	436	13,944	3,442	196
2016	17,893	1,050	13,426	3,245	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2006-May 2016 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	350,074	27,455	135,546	269	186,803
2007	353,025	31,568	132,953	284	188,220
2008	338,786	29,150	130,122	287	179,227
2009	320,444	29,565	130,894	274	159,712
2010	349,530	40,167	137,072	274	172,016
2011	347,623	35,474	130,108	482	181,559
2012	390,342	32,723	138,217	478	218,924
2013	397,929	43,363	143,721	536	210,308
2014	431,285	45,643	174,513	961	210,167
2015	423,964	43,996	175,037	723	204,209
Year 2014					
January	37,135	4,268	14,488	150	18,228
February	33,670	3,805	13,442	125	16,298
March	36,751	4,396	14,837	87	17,430
April	31,558	2,624	12,884	43	16,007
May	32,416	2,959	12,100	67	17,290
June	37,105	3,977	15,346	124	17,658
July	39,028	4,052	16,069	81	18,827
August	38,477	4,275	15,672	69	18,461
Sept	35,553	3,720	14,839	54	16,940
October	35,086	3,777	13,871	64	17,375
November	36,209	3,715	15,424	46	17,025
December	38,296	4,075	15,542	51	18,628
Year 2015					
January	37,759	4,213	15,381	82	18,083
February	34,463	3,571	14,764	75	16,053
March	34,574	3,449	14,233	63	16,829
April	30,594	2,416	12,332	56	15,790
May	34,107	3,398	14,280	72	16,357
June	35,586	3,806	14,827	41	16,912
July	39,299	4,630	16,262	80	18,327
August	38,913	4,539	16,512	45	17,817
Sept	34,715	3,479	13,872	58	17,305
October	32,887	3,255	12,881	62	16,690
November	34,399	3,405	14,293	36	16,666
December	36,669	3,834	15,400	53	17,381
Year 2016					
January	35,775	4,263	14,257	65	17,190
February	34,677	4,008	14,416	75	16,179
March	34,301	3,536	14,096	44	16,625
April	26,183	2,673	9,712	44	13,754
May	28,438	2,756	10,741	24	14,917
Year to Date					
2014	171,530	18,053	67,751	472	85,253
2015	171,497	17,047	70,990	349	83,111
2016	159,375	17,235	63,222	252	78,666
Rolling 12 Months Ending in May					
2015	431,252	44,637	177,752	837	208,025
2016	411,842	44,184	167,269	626	199,763

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2006-May 2016 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	1,049,161	0	18,814	1,045	1,029,303
2007	982,486	0	21,435	1,756	959,296
2008	923,889	0	18,075	1,123	904,690
2009	816,285	0	19,587	1,135	795,563
2010	876,041	0	18,357	1,064	856,620
2011	893,314	0	16,577	1,022	875,716
2012	883,158	0	19,251	949	862,958
2013	919,631	0	20,342	950	898,339
2014	946,344	8,835	22,262	3,766	911,481
2015	923,637	9,244	18,028	3,532	892,833
Year 2014					
January	80,405	649	1,975	311	77,469
February	73,581	733	1,988	271	70,589
March	80,081	875	2,027	342	76,837
April	77,233	678	1,914	246	74,395
May	76,839	773	1,454	338	74,274
June	79,101	683	1,848	400	76,170
July	80,733	767	1,876	351	77,739
August	82,539	722	1,908	346	79,564
Sept	76,170	573	1,706	296	73,596
October	78,477	737	1,894	285	75,561
November	78,316	728	1,738	271	75,578
December	82,869	916	1,935	309	79,709
Year 2015					
January	84,158	862	1,703	374	81,220
February	74,527	821	1,628	353	71,725
March	75,574	767	1,575	306	72,926
April	76,652	600	1,563	300	74,190
May	77,079	771	792	141	75,375
June	76,022	797	1,438	251	73,536
July	78,843	773	1,682	357	76,031
August	77,221	769	1,752	269	74,431
Sept	74,010	703	1,583	311	71,413
October	75,840	740	1,270	269	73,561
November	74,605	712	1,377	278	72,238
December	79,104	929	1,665	324	76,187
Year 2016					
January	79,935	840	1,732	470	76,893
February	72,962	884	1,727	396	69,956
March	73,615	860	1,312	259	71,183
April	73,175	693	1,381	342	70,758
May	75,816	644	1,258	268	73,646
Year to Date					
2014	388,139	3,708	9,357	1,509	373,564
2015	387,990	3,821	7,260	1,474	375,435
2016	375,503	3,921	7,411	1,734	362,436
Rolling 12 Months Ending in May					
2015	946,195	8,948	20,164	3,732	913,352
2016	911,149	9,345	18,179	3,792	879,834

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.

The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.

Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.8.A. Consumption of Coal for Electricity Generation by State, by Sector,
May 2016 and May 2015 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	14	4	222.0%	0	1	14	3	0	0	NM	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	1	1	1.7%	0	0	1	1	0	0	0	0
Massachusetts	13	3	369.0%	0	0	13	2	0	0	NM	0
New Hampshire	0	1	-100.0%	0	1	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,007	2,711	-26.0%	0	0	1,988	2,693	NM	NM	18	18
New Jersey	43	45	-6.2%	0	0	43	45	0	0	0	0
New York	46	67	-31.0%	0	0	39	62	0	0	7	5
Pennsylvania	1,918	2,599	-26.0%	0	0	1,907	2,586	NM	NM	11	13
East North Central	9,562	12,032	-21.0%	6,311	8,051	3,182	3,904	2	3	67	73
Illinois	2,215	3,222	-31.0%	380	469	1,787	2,704	NM	NM	46	49
Indiana	2,538	3,027	-16.0%	2,416	2,833	120	193	1	1	NM	NM
Michigan	1,641	2,408	-32.0%	1,613	2,382	22	20	0	2	6	5
Ohio	1,873	1,928	-2.8%	616	936	1,252	987	NM	NM	5	4
Wisconsin	1,295	1,447	-10.0%	1,285	1,431	0	0	NM	NM	10	15
West North Central	7,587	9,450	-20.0%	7,486	9,326	NM	1	3	4	97	120
Iowa	718	1,354	-47.0%	662	1,286	0	0	3	2	53	66
Kansas	966	1,271	-24.0%	966	1,271	0	0	0	0	0	0
Minnesota	985	1,280	-23.0%	963	1,252	0	0	NM	NM	22	28
Missouri	2,560	2,600	-1.5%	2,557	2,596	NM	1	0	1	NM	1
Nebraska	863	1,182	-27.0%	848	1,162	0	0	0	0	15	20
North Dakota	1,386	1,764	-21.0%	1,382	1,759	0	0	0	0	4	5
South Dakota	108	0	--	108	0	0	0	0	0	0	0
South Atlantic	7,123	8,583	-17.0%	6,393	7,514	701	1,020	NM	NM	28	47
Delaware	3	18	-84.0%	0	0	3	18	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,361	1,755	-22.0%	1,325	1,678	31	71	0	0	NM	NM
Georgia	1,584	1,920	-17.0%	1,579	1,916	0	0	0	0	NM	NM
Maryland	242	576	-58.0%	0	0	240	573	0	NM	2	2
North Carolina	764	1,092	-30.0%	742	1,058	NM	NM	0	1	NM	NM
South Carolina	595	769	-23.0%	591	762	0	0	0	0	5	7
Virginia	553	388	43.0%	536	339	NM	43	NM	NM	NM	NM
West Virginia	2,021	2,065	-2.2%	1,620	1,761	397	285	0	0	4	20
East South Central	4,946	6,375	-22.0%	4,711	6,186	214	170	0	0	22	19
Alabama	1,225	1,879	-35.0%	1,219	1,877	0	0	0	0	NM	NM
Kentucky	2,200	3,061	-28.0%	2,200	3,061	0	0	0	0	0	0
Mississippi	261	369	-29.0%	47	200	214	170	0	0	0	0
Tennessee	1,261	1,065	18.0%	1,245	1,049	0	0	0	0	16	16
West South Central	8,108	9,730	-17.0%	3,854	5,131	4,242	4,585	0	0	NM	NM
Arkansas	561	1,141	-51.0%	451	943	109	197	0	0	1	1
Louisiana	588	689	-15.0%	414	483	174	207	0	0	0	0
Oklahoma	524	1,136	-54.0%	463	1,063	50	60	0	0	NM	NM
Texas	6,435	6,764	-4.9%	2,526	2,642	3,909	4,121	0	0	0	0
Mountain	5,720	8,124	-30.0%	5,299	7,310	406	793	0	0	15	22
Arizona	1,222	1,723	-29.0%	1,222	1,723	0	0	0	0	0	0
Colorado	1,201	1,401	-14.0%	1,200	1,399	NM	NM	0	0	NM	NM
Idaho	1	1	-17.0%	0	0	0	0	0	0	1	1
Montana	336	713	-53.0%	NM	NM	321	691	0	0	NM	NM
Nevada	42	45	-5.5%	0	8	42	37	0	0	0	0
New Mexico	728	1,039	-30.0%	728	1,039	0	0	0	0	0	0
Utah	690	1,209	-43.0%	671	1,182	NM	NM	0	0	2	3
Wyoming	1,500	1,993	-25.0%	1,465	1,938	NM	NM	0	0	12	17
Pacific Contiguous	7	122	-95.0%	0	0	0	115	0	0	7	7
California	6	9	-27.0%	0	0	0	NM	0	0	6	6
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	114	-100.0%	0	0	0	113	0	0	0	1
Pacific Noncontiguous	91	85	6.7%	17	21	69	59	3	3	NM	NM
Alaska	31	41	-24.0%	17	21	NM	16	3	3	0	0
Hawaii	60	44	35.0%	0	0	58	43	0	0	NM	NM
U.S. Total	45,165	57,217	-21.0%	34,071	43,540	10,818	13,343	9	12	267	321

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.8.B. Consumption of Coal for Electricity Generation by State, by Sector, Year-to-Date through May 2016 and May 2015 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	561	1,368	-59.0%	72	355	486	1,005	0	0	3	8
Connecticut	38	339	-89.0%	0	0	38	339	0	0	0	0
Maine	7	14	-50.0%	0	0	5	8	0	0	1	6
Massachusetts	444	660	-33.0%	0	0	442	658	0	0	2	2
New Hampshire	72	355	-80.0%	72	355	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	10,601	15,317	-31.0%	0	0	10,507	15,211	NM	2	94	104
New Jersey	222	441	-50.0%	0	0	222	441	0	0	0	0
New York	278	632	-56.0%	0	0	248	603	0	0	30	28
Pennsylvania	10,101	14,244	-29.0%	0	0	10,037	14,167	NM	2	64	76
East North Central	52,519	69,235	-24.0%	34,023	43,239	18,132	25,582	15	20	349	395
Illinois	12,714	18,703	-32.0%	1,730	2,269	10,744	16,181	6	7	233	246
Indiana	13,622	16,281	-16.0%	12,702	15,182	914	1,093	4	4	2	2
Michigan	9,011	11,903	-24.0%	8,879	11,759	101	98	4	8	28	37
Ohio	10,570	13,849	-24.0%	4,172	5,613	6,373	8,209	NM	NM	25	26
Wisconsin	6,601	8,499	-22.0%	6,539	8,416	0	0	NM	NM	62	83
West North Central	42,520	51,680	-18.0%	41,961	51,045	5	6	20	25	534	604
Iowa	4,703	7,810	-40.0%	4,405	7,477	0	0	12	13	286	319
Kansas	4,879	6,634	-26.0%	4,879	6,634	0	0	0	0	0	0
Minnesota	5,315	6,270	-15.0%	5,187	6,122	0	0	1	2	127	146
Missouri	14,053	15,428	-8.9%	14,034	15,404	5	6	6	9	8	8
Nebraska	4,782	5,756	-17.0%	4,692	5,652	0	0	0	0	90	104
North Dakota	8,206	9,448	-13.0%	8,182	9,421	0	0	0	0	24	26
South Dakota	581	335	73.0%	581	335	0	0	0	0	0	0
South Atlantic	36,533	44,858	-19.0%	32,075	39,182	4,308	5,455	8	14	142	207
Delaware	102	176	-42.0%	0	0	102	176	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5,576	7,488	-26.0%	5,485	7,359	73	109	0	0	19	20
Georgia	6,511	8,332	-22.0%	6,491	8,307	0	0	0	0	21	25
Maryland	1,972	2,926	-33.0%	0	0	1,963	2,907	0	NM	9	15
North Carolina	4,439	6,596	-33.0%	4,331	6,484	NM	89	6	8	18	15
South Carolina	3,358	3,985	-16.0%	3,335	3,959	0	0	0	0	24	26
Virginia	3,032	3,021	0.3%	2,913	2,777	83	211	NM	NM	33	31
West Virginia	11,542	12,334	-6.4%	9,521	10,296	2,003	1,964	0	0	18	74
East South Central	24,898	31,366	-21.0%	23,706	29,920	1,086	1,337	0	0	106	109
Alabama	5,893	7,804	-24.0%	5,869	7,779	0	0	0	0	24	25
Kentucky	12,475	15,279	-18.0%	12,475	15,279	0	0	0	0	0	0
Mississippi	1,461	2,121	-31.0%	375	784	1,086	1,337	0	0	0	0
Tennessee	5,069	6,162	-18.0%	4,987	6,078	0	0	0	0	82	84
West South Central	36,164	47,112	-23.0%	18,213	23,614	17,892	23,444	0	0	59	55
Arkansas	4,087	4,991	-18.0%	3,191	4,103	890	882	0	0	6	6
Louisiana	2,898	4,361	-34.0%	2,176	2,291	723	2,070	0	0	0	0
Oklahoma	3,528	6,259	-44.0%	3,115	5,884	359	327	0	0	NM	49
Texas	25,652	31,501	-19.0%	9,731	11,336	15,921	20,165	0	0	0	0
Mountain	32,176	40,493	-21.0%	28,347	36,048	3,707	4,307	0	0	121	138
Arizona	5,641	7,658	-26.0%	5,641	7,658	0	0	0	0	0	0
Colorado	6,155	7,184	-14.0%	6,147	7,177	NM	NM	0	0	NM	NM
Idaho	6	7	-14.0%	0	0	0	0	0	0	6	7
Montana	3,369	3,959	-15.0%	NM	110	3,277	3,846	0	0	NM	3
Nevada	317	431	-26.0%	144	267	174	163	0	0	0	0
New Mexico	3,438	4,584	-25.0%	3,438	4,584	0	0	0	0	0	0
Utah	4,212	6,012	-30.0%	4,082	5,870	NM	101	0	0	38	40
Wyoming	9,038	10,659	-15.0%	8,806	10,381	158	191	0	0	74	87
Pacific Contiguous	474	550	-14.0%	185	14	255	503	0	0	35	33
California	31	35	-12.0%	0	0	0	NM	0	0	31	29
Oregon	185	14	NM	185	14	0	0	0	0	0	0
Washington	258	501	-48.0%	0	0	255	497	0	0	3	4
Pacific Noncontiguous	507	453	12.0%	116	97	367	333	17	17	NM	NM
Alaska	206	197	4.3%	116	97	72	83	17	17	0	0
Hawaii	301	256	18.0%	0	0	295	249	0	0	NM	NM
U.S. Total	236,953	302,432	-22.0%	178,697	223,513	56,746	77,183	60	77	1,449	1,659

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.9.A. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector,
May 2016 and May 2015 (Thousand Barrels)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	NM	37	NM	7	6	NM	26	NM	NM	NM	NM
Connecticut	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Maine	5	5	-4.0%	NM	NM	3	3	NM	NM	1	1
Massachusetts	NM	NM	NM	3	2	NM	NM	NM	NM	NM	NM
New Hampshire	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Rhode Island	NM	NM	NM	1	NM	0	0	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	78	106	-26.0%	NM	NM	54	83	NM	6	NM	4
New Jersey	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
New York	NM	42	NM	NM	NM	NM	23	NM	6	NM	2
Pennsylvania	49	55	-12.0%	NM	NM	45	52	NM	NM	NM	NM
East North Central	118	108	9.2%	74	79	42	26	NM	NM	2	3
Illinois	17	10	69.0%	4	5	13	5	NM	NM	NM	NM
Indiana	20	28	-28.0%	20	26	NM	NM	NM	NM	1	2
Michigan	36	23	55.0%	36	23	0	0	NM	NM	NM	NM
Ohio	39	39	0.7%	10	18	29	20	NM	NM	1	NM
Wisconsin	NM	8	NM	NM	7	0	NM	NM	NM	NM	NM
West North Central	67	80	-16.0%	62	75	NM	NM	NM	NM	NM	NM
Iowa	19	14	43.0%	19	13	NM	NM	NM	NM	NM	NM
Kansas	8	10	-19.0%	8	10	0	0	0	0	0	0
Minnesota	NM	NM	NM	NM	7	NM	NM	NM	NM	NM	NM
Missouri	18	31	-42.0%	18	31	NM	NM	NM	NM	0	0
Nebraska	NM	5	NM	NM	5	0	0	0	0	0	0
North Dakota	NM	4	NM	NM	3	0	0	NM	NM	NM	NM
South Dakota	NM	5	NM	NM	5	NM	NM	NM	NM	0	0
South Atlantic	206	296	-30.0%	141	177	61	88	NM	NM	5	23
Delaware	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	35	59	-41.0%	34	58	NM	NM	0	0	1	NM
Georgia	13	37	-65.0%	11	17	0	NM	NM	NM	2	20
Maryland	22	40	-44.0%	NM	NM	20	31	NM	NM	0	NM
North Carolina	39	43	-9.6%	37	41	NM	NM	NM	NM	NM	1
South Carolina	18	18	1.3%	17	17	NM	NM	NM	NM	1	1
Virginia	48	77	-37.0%	12	24	35	52	NM	NM	NM	NM
West Virginia	28	18	57.0%	28	18	0	0	0	0	0	0
East South Central	60	71	-15.0%	58	68	0	NM	NM	NM	2	NM
Alabama	6	11	-43.0%	4	8	0	NM	0	0	2	NM
Kentucky	28	28	-0.8%	28	28	0	0	0	0	0	0
Mississippi	1	5	-72.0%	1	5	0	0	0	0	0	0
Tennessee	25	27	-8.5%	25	27	NM	NM	NM	NM	NM	NM
West South Central	40	51	-23.0%	16	19	22	30	NM	NM	1	2
Arkansas	10	11	-2.8%	5	7	4	3	0	0	1	2
Louisiana	2	4	-46.0%	2	2	0	2	0	0	0	0
Oklahoma	2	NM	NM	2	2	0	0	NM	NM	NM	NM
Texas	25	35	-27.0%	7	9	18	26	NM	NM	NM	NM
Mountain	50	37	34.0%	NM	32	7	5	NM	NM	NM	1
Arizona	8	7	6.9%	8	7	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	5	NM	NM	NM	7	4	0	0	0	0
Nevada	0	1	-77.0%	0	0	0	1	0	0	0	0
New Mexico	NM	12	NM	NM	12	0	0	0	0	NM	NM
Utah	NM	3	NM	5	3	NM	NM	0	0	NM	NM
Wyoming	14	8	92.0%	14	7	0	0	0	0	NM	1
Pacific Contiguous	31	39	-21.0%	NM	6	NM	17	NM	NM	22	16
California	29	34	-17.0%	NM	5	NM	14	NM	NM	20	15
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	NM	4	NM	NM	NM	NM	3	NM	NM	NM	1
Pacific Noncontiguous	911	915	-0.5%	786	800	103	96	NM	NM	NM	18
Alaska	102	104	-1.9%	95	96	0	0	NM	NM	7	8
Hawaii	808	811	-0.3%	691	704	103	96	1	1	NM	10
U.S. Total	1,601	1,740	-8.0%	1,207	1,274	325	375	NM	20	58	70

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.9.B. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, Year-to-Date through May 2016 and May 2015 (Thousand Barrels)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	390	3,022	-87.0%	46	291	318	2,611	20	76	6	44
Connecticut	63	619	-90.0%	4	NM	55	602	NM	NM	NM	NM
Maine	150	807	-81.0%	NM	NM	144	761	NM	NM	4	41
Massachusetts	139	1,193	-88.0%	20	83	109	1,070	NM	39	NM	NM
New Hampshire	17	265	-94.0%	13	190	NM	67	3	9	NM	NM
Rhode Island	19	125	-85.0%	7	9	9	110	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	926	3,945	-77.0%	292	1,257	590	2,592	14	38	30	58
New Jersey	87	434	-80.0%	NM	NM	86	431	NM	NM	NM	NM
New York	591	2,693	-78.0%	290	1,254	272	1,359	11	36	17	44
Pennsylvania	248	818	-70.0%	1	NM	232	801	NM	NM	12	NM
East North Central	472	498	-5.3%	322	360	136	121	3	NM	11	15
Illinois	70	44	60.0%	18	17	51	27	1	NM	NM	NM
Indiana	100	141	-29.0%	93	130	NM	NM	NM	NM	7	10
Michigan	110	100	10.0%	107	97	0	0	1	NM	NM	2
Ohio	158	171	-7.6%	74	76	82	93	NM	NM	2	3
Wisconsin	33	43	-22.0%	NM	40	3	2	NM	1	NM	1
West North Central	231	327	-29.0%	215	298	NM	NM	7	6	1	0
Iowa	54	38	39.0%	53	37	1	NM	NM	NM	NM	NM
Kansas	31	65	-52.0%	31	65	0	0	0	0	0	0
Minnesota	30	57	-46.0%	NM	29	NM	NM	6	6	NM	0
Missouri	64	89	-27.0%	64	88	NM	NM	NM	NM	0	0
Nebraska	24	22	11.0%	24	22	0	0	0	0	0	0
North Dakota	23	23	0.2%	23	23	0	0	NM	NM	NM	NM
South Dakota	NM	33	NM	NM	33	NM	NM	NM	NM	0	0
South Atlantic	1,681	3,702	-55.0%	1,133	2,539	481	879	NM	151	65	133
Delaware	70	214	-67.0%	NM	NM	69	210	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	229	477	-52.0%	219	461	NM	NM	0	0	8	9
Georgia	150	284	-47.0%	78	105	34	83	1	NM	38	95
Maryland	199	424	-53.0%	8	NM	189	265	NM	148	1	NM
North Carolina	283	616	-54.0%	226	569	53	39	NM	NM	3	9
South Carolina	128	305	-58.0%	111	273	NM	15	NM	NM	13	16
Virginia	534	1,282	-58.0%	401	1,036	130	241	NM	NM	2	3
West Virginia	88	101	-13.0%	87	80	0	21	0	0	0	0
East South Central	248	347	-29.0%	225	301	11	27	NM	NM	11	18
Alabama	49	100	-51.0%	28	58	11	26	0	0	10	16
Kentucky	93	114	-18.0%	93	114	0	0	0	0	0	0
Mississippi	15	20	-24.0%	14	19	0	0	0	0	0	1
Tennessee	91	114	-20.0%	89	112	1	NM	NM	NM	NM	NM
West South Central	133	248	-46.0%	86	141	44	101	NM	NM	3	6
Arkansas	32	53	-40.0%	24	39	6	11	0	0	2	4
Louisiana	16	84	-81.0%	12	65	3	18	0	0	0	0
Oklahoma	9	NM	NM	9	4	0	0	NM	NM	NM	NM
Texas	75	107	-29.0%	40	33	34	72	NM	NM	NM	NM
Mountain	209	202	3.7%	188	183	18	16	NM	NM	3	3
Arizona	52	45	15.0%	52	45	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	21	NM	NM	NM	16	13	0	0	0	0
Nevada	6	11	-41.0%	5	8	2	NM	0	0	0	0
New Mexico	55	68	-19.0%	55	68	0	0	0	0	NM	NM
Utah	21	14	56.0%	21	13	NM	NM	0	0	NM	NM
Wyoming	42	31	34.0%	39	29	0	0	0	0	2	2
Pacific Contiguous	67	84	-20.0%	27	26	NM	35	NM	NM	27	22
California	58	72	-20.0%	24	24	NM	31	NM	NM	21	16
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	9	12	-20.0%	NM	NM	1	4	NM	NM	5	6
Pacific Noncontiguous	4,477	4,824	-7.2%	3,936	4,150	452	565	5	6	NM	104
Alaska	557	587	-5.1%	520	544	0	0	NM	2	36	41
Hawaii	3,920	4,237	-7.5%	3,416	3,606	452	565	4	4	NM	62
U.S. Total	8,835	17,200	-49.0%	6,470	9,547	2,073	6,969	53	281	239	403

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Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.10.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector,
May 2016 and May 2015 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	NM	NM	NM	0	0	0	0	0	0	NM	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	75	96	-22.0%	27	46	44	43	0	0	5	6
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	14	-100.0%	0	14	0	0	0	0	0	0
Michigan	28	34	-15.0%	24	29	0	1	0	0	NM	4
Ohio	44	43	2.3%	0	0	44	43	0	0	NM	0
Wisconsin	3	5	-45.0%	2	3	0	0	0	0	1	2
West North Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Iowa	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	78	43	81.0%	75	42	0	0	0	0	2	1
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	75	42	80.0%	75	42	0	0	0	0	0	0
Georgia	2	1	123.0%	0	0	0	0	0	0	2	1
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	40	28	47.0%	40	28	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	40	28	47.0%	40	28	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	166	153	8.2%	154	145	0	0	0	0	12	9
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	161	148	8.6%	154	145	0	0	0	0	NM	4
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	5	NM	0	0	0	0	0	0	NM	5
Mountain	8	16	-46.0%	0	0	8	16	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	8	16	-46.0%	0	0	8	16	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	376	343	9.8%	296	260	52	59	0	0	28	23

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, Year-to-Date through May 2016 and May 2015 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	23	20	12.0%	0	0	0	0	0	0	23	20
New Jersey	NM	NM	NM	0	0	0	0	0	0	NM	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	18	19	-7.1%	0	0	0	0	0	0	18	19
East North Central	444	504	-12.0%	268	260	152	216	0	0	24	28
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	159	103	54.0%	159	103	0	0	0	0	0	0
Michigan	119	168	-29.0%	101	145	1	7	0	0	17	17
Ohio	151	209	-28.0%	0	0	150	209	0	0	1	0
Wisconsin	15	24	-36.0%	9	12	0	0	0	0	6	12
West North Central	15	13	18.0%	0	0	0	0	1	1	15	12
Iowa	15	13	18.0%	0	0	0	0	1	1	15	12
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	351	220	60.0%	340	207	0	0	0	0	11	13
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	340	207	65.0%	340	207	0	0	0	0	0	0
Georgia	11	13	-19.0%	0	0	0	0	0	0	11	13
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	174	181	-3.9%	174	181	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	174	181	-3.9%	174	181	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	748	725	3.1%	695	664	0	0	0	0	53	62
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	728	686	6.1%	695	664	0	0	0	0	32	22
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	20	40	-49.0%	0	0	0	0	0	0	20	40
Mountain	63	75	-15.0%	0	0	63	75	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	63	75	-15.0%	0	0	63	75	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,818	1,740	4.5%	1,478	1,312	215	292	1	1	124	135

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.11.A. Consumption of Natural Gas for Electricity Generation by State, by Sector,
May 2016 and May 2015 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	36,944	35,743	3.4%	170	589	35,404	33,519	700	812	670	823
Connecticut	10,824	9,486	14.0%	8	8	10,226	8,706	NM	345	NM	427
Maine	2,171	1,062	105.0%	0	0	1,913	745	NM	NM	238	292
Massachusetts	15,864	15,526	2.2%	135	575	15,272	14,475	357	383	NM	93
New Hampshire	3,029	3,891	-22.0%	26	0	2,984	3,865	NM	NM	NM	NM
Rhode Island	5,055	5,772	-12.0%	0	0	5,008	5,728	NM	NM	0	0
Vermont	2	6	-75.0%	2	6	0	0	0	0	0	0
Middle Atlantic	99,133	93,765	5.7%	9,445	9,249	88,115	82,699	774	826	799	991
New Jersey	23,642	23,715	-0.3%	NM	NM	23,224	23,194	NM	139	NM	310
New York	39,638	38,725	2.4%	9,353	9,167	29,590	28,862	567	566	128	129
Pennsylvania	35,852	31,325	14.0%	NM	NM	35,301	30,643	NM	NM	447	552
East North Central	66,775	49,089	36.0%	30,852	20,122	33,609	26,077	794	1,345	1,520	1,545
Illinois	9,566	5,392	77.0%	1,244	NM	7,835	4,174	284	772	202	252
Indiana	13,778	8,884	55.0%	11,654	6,402	1,705	2,076	96	84	324	323
Michigan	22,230	12,580	77.0%	6,329	2,417	14,784	8,986	266	313	851	863
Ohio	11,479	15,153	-24.0%	2,817	4,292	8,551	10,725	NM	NM	NM	NM
Wisconsin	9,722	7,079	37.0%	8,808	6,816	734	116	NM	73	123	75
West North Central	16,199	7,348	120.0%	12,881	5,964	2,630	905	NM	315	333	163
Iowa	2,726	977	179.0%	2,623	874	NM	NM	NM	NM	NM	NM
Kansas	1,242	1,257	-1.2%	1,083	1,189	0	0	0	0	NM	69
Minnesota	6,475	2,251	188.0%	5,032	1,714	1,205	339	NM	NM	NM	NM
Missouri	4,213	1,877	124.0%	2,630	1,214	1,425	566	152	94	NM	NM
Nebraska	NM	201	NM	NM	201	0	0	NM	NM	NM	0
North Dakota	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
South Dakota	714	572	25.0%	714	572	0	0	0	0	0	0
South Atlantic	206,070	198,165	4.0%	164,121	156,524	38,978	38,618	462	549	2,508	2,474
Delaware	5,049	5,903	-14.0%	NM	NM	3,860	4,848	0	0	1,141	1,017
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	107,967	101,982	5.9%	93,862	94,581	13,282	6,660	NM	NM	794	726
Georgia	33,483	28,413	18.0%	24,825	17,023	8,413	10,898	0	0	244	492
Maryland	4,132	4,744	-13.0%	0	0	3,720	4,259	NM	455	44	30
North Carolina	21,996	23,885	-7.9%	19,305	21,084	2,586	2,741	0	5	105	54
South Carolina	9,990	9,849	1.4%	8,641	8,836	1,309	995	NM	NM	29	14
Virginia	21,737	22,114	-1.7%	17,351	14,652	4,235	7,316	NM	NM	146	141
West Virginia	1,668	1,211	38.0%	89	310	1,573	901	0	0	6	0
East South Central	75,518	69,589	8.5%	47,260	40,439	27,136	27,964	NM	NM	1,028	1,078
Alabama	33,900	32,955	2.9%	10,229	9,461	23,040	22,801	0	0	630	694
Kentucky	5,057	3,573	42.0%	4,133	2,468	821	947	0	0	103	159
Mississippi	31,565	26,411	20.0%	28,104	22,029	3,268	4,210	NM	NM	184	164
Tennessee	4,996	6,649	-25.0%	4,793	6,481	NM	NM	NM	NM	111	61
West South Central	225,241	199,457	13.0%	77,611	65,894	107,720	97,198	749	645	39,161	35,719
Arkansas	11,642	6,946	68.0%	4,081	1,762	7,417	5,018	NM	NM	141	164
Louisiana	47,381	42,200	12.0%	26,116	25,730	4,187	1,464	NM	NM	16,932	14,861
Oklahoma	23,049	17,180	34.0%	14,064	11,328	8,891	5,778	NM	NM	NM	73
Texas	143,168	133,131	7.5%	33,349	27,074	87,225	84,938	585	499	22,010	20,621
Mountain	59,110	45,666	29.0%	44,960	32,284	12,898	12,186	342	342	910	854
Arizona	20,427	13,352	53.0%	13,292	6,526	7,022	6,711	113	NM	0	0
Colorado	7,588	4,872	56.0%	6,086	3,546	1,483	1,301	0	0	NM	NM
Idaho	1,405	2,069	-32.0%	791	1,542	564	489	0	0	NM	37
Montana	NM	482	NM	NM	445	NM	NM	0	0	0	0
Nevada	16,786	15,204	10.0%	15,382	13,831	1,182	1,141	NM	NM	167	NM
New Mexico	6,377	4,402	45.0%	3,997	1,993	2,253	2,277	NM	NM	NM	NM
Utah	5,468	4,982	9.7%	4,718	4,354	NM	NM	NM	NM	341	334
Wyoming	403	303	33.0%	NM	NM	NM	NM	0	0	303	246
Pacific Contiguous	52,512	68,210	-23.0%	18,170	25,281	27,648	36,083	1,208	1,232	5,486	5,613
California	44,375	54,881	-19.0%	13,646	17,485	24,187	30,691	1,157	1,146	5,385	5,558
Oregon	3,489	7,823	-55.0%	2,051	3,409	1,329	4,297	NM	NM	65	37
Washington	4,648	5,506	-16.0%	2,473	4,388	2,132	1,095	NM	NM	36	17
Pacific Noncontiguous	1,900	1,875	1.4%	1,852	1,781	0	0	NM	NM	NM	NM
Alaska	1,900	1,875	1.4%	1,852	1,781	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	839,403	768,905	9.2%	407,322	358,129	374,139	355,250	5,484	6,174	52,459	49,353

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 2.11.B. Consumption of Nautral Gas for Electricity Generation by State, by Sector,
Year-to-Date through May 2016 and May 2015 (Million Cubic Feet)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	150,934	137,919	9.4%	717	907	142,960	129,537	3,592	3,755	3,666	3,720
Connecticut	53,962	47,797	13.0%	8	8	50,482	44,125	1,560	1,647	1,912	2,017
Maine	9,558	7,989	20.0%	0	0	8,219	6,642	NM	NM	1,221	1,226
Massachusetts	58,941	50,130	18.0%	625	854	56,208	47,124	1,626	1,731	481	422
New Hampshire	10,825	16,549	-35.0%	81	31	10,628	16,394	NM	NM	NM	NM
Rhode Island	17,645	15,440	14.0%	0	0	17,423	15,251	222	188	0	0
Vermont	3	15	-83.0%	3	15	0	0	0	0	0	0
Middle Atlantic	461,575	424,529	8.7%	42,408	40,534	410,014	374,992	4,384	4,213	4,769	4,790
New Jersey	115,564	99,265	16.0%	NM	NM	113,218	96,850	640	639	1,360	1,460
New York	168,411	169,083	-0.4%	42,012	40,180	122,478	125,276	3,208	2,994	713	632
Pennsylvania	177,600	156,181	14.0%	NM	NM	174,318	152,866	537	580	2,697	2,698
East North Central	348,281	275,081	27.0%	150,852	117,037	183,114	144,127	5,773	6,516	8,541	7,400
Illinois	49,388	30,581	61.0%	4,270	1,040	41,249	24,430	2,711	3,929	1,158	1,182
Indiana	61,282	53,705	14.0%	46,936	41,101	12,288	10,579	440	337	1,618	1,688
Michigan	99,604	65,363	52.0%	28,930	15,755	64,007	44,208	1,730	1,462	4,937	3,938
Ohio	85,332	87,057	-2.0%	22,188	23,282	62,550	63,128	489	453	105	195
Wisconsin	52,675	38,374	37.0%	48,528	35,860	3,021	1,782	402	336	723	398
West North Central	66,848	45,410	47.0%	54,483	38,647	9,207	4,612	1,713	1,312	1,445	840
Iowa	9,002	6,039	49.0%	8,353	5,522	NM	NM	NM	229	NM	288
Kansas	5,403	5,017	7.7%	4,827	4,768	0	0	0	0	575	249
Minnesota	29,045	17,674	64.0%	23,238	14,901	4,490	1,726	970	829	347	218
Missouri	16,915	12,674	33.0%	11,738	9,520	4,716	2,886	440	252	NM	NM
Nebraska	1,384	886	56.0%	1,281	865	0	0	NM	NM	NM	NM
North Dakota	1,840	1,058	74.0%	1,787	1,009	0	0	0	0	NM	49
South Dakota	3,259	2,062	58.0%	3,259	2,062	0	0	0	0	0	0
South Atlantic	927,502	849,682	9.2%	748,914	695,151	164,899	140,188	2,595	2,618	11,094	11,725
Delaware	21,413	22,033	-2.8%	NM	NM	16,541	16,745	0	0	4,687	5,138
District of Columbia	NM	303	NM	0	0	0	0	NM	303	0	0
Florida	468,018	443,942	5.4%	424,905	417,896	39,349	22,299	NM	NM	3,653	3,686
Georgia	148,447	132,736	12.0%	106,596	89,525	40,602	41,433	0	0	1,249	1,778
Maryland	16,842	12,659	33.0%	0	0	14,535	10,335	2,111	2,202	196	122
North Carolina	122,478	104,566	17.0%	109,216	93,411	12,832	10,835	23	12	407	308
South Carolina	43,866	41,775	5.0%	34,438	37,350	9,208	4,333	NM	NM	181	80
Virginia	101,857	88,603	15.0%	73,161	56,145	27,986	31,825	NM	NM	682	608
West Virginia	4,299	3,064	40.0%	415	673	3,844	2,384	0	0	40	NM
East South Central	354,681	334,886	5.9%	225,348	199,581	123,414	128,971	521	523	5,398	5,810
Alabama	156,892	157,715	-0.5%	50,633	44,587	102,889	109,315	0	0	3,370	3,813
Kentucky	25,436	18,428	38.0%	23,071	16,216	1,691	1,470	0	0	674	743
Mississippi	141,922	131,127	8.2%	122,148	112,025	18,805	18,159	NM	NM	926	903
Tennessee	30,432	27,615	10.0%	29,496	26,753	NM	NM	478	483	428	351
West South Central	1,010,372	995,202	1.5%	334,123	308,205	480,373	503,527	3,351	3,070	192,526	180,400
Arkansas	41,280	46,963	-12.0%	18,993	11,165	21,455	34,823	NM	NM	821	965
Louisiana	219,834	194,787	13.0%	111,180	111,846	22,818	5,955	751	757	85,085	76,228
Oklahoma	99,328	94,573	5.0%	69,248	63,995	29,645	30,210	NM	NM	388	368
Texas	649,930	658,879	-1.4%	134,702	121,199	406,455	432,539	2,542	2,302	106,231	102,838
Mountain	268,505	215,266	25.0%	209,786	157,435	52,751	52,290	1,424	1,490	4,544	4,051
Arizona	81,537	56,467	44.0%	56,693	32,294	24,373	23,683	470	490	0	0
Colorado	37,286	28,494	31.0%	30,761	20,671	6,435	7,732	0	0	NM	NM
Idaho	9,174	6,877	33.0%	4,671	3,722	4,133	2,951	0	0	370	203
Montana	3,426	2,494	37.0%	3,154	2,310	NM	NM	0	0	0	0
Nevada	78,145	70,055	12.0%	72,295	64,071	4,903	5,032	221	NM	726	713
New Mexico	31,564	28,233	12.0%	19,811	16,114	11,215	11,562	405	424	NM	NM
Utah	25,363	21,003	21.0%	22,091	18,106	NM	NM	328	335	1,554	1,457
Wyoming	2,010	1,644	22.0%	NM	NM	NM	NM	0	0	1,671	1,455
Pacific Contiguous	300,522	334,042	-10.0%	120,146	132,171	149,788	170,938	5,256	5,340	25,331	25,593
California	239,139	280,284	-15.0%	84,196	101,093	125,402	148,924	4,816	4,946	24,724	25,320
Oregon	34,138	33,529	1.8%	13,674	13,267	19,708	19,740	NM	366	355	155
Washington	27,245	20,229	35.0%	22,277	17,811	4,678	2,274	NM	28	252	117
Pacific Noncontiguous	10,227	12,917	-21.0%	9,748	12,471	0	0	NM	NM	NM	435
Alaska	10,227	12,917	-21.0%	9,748	12,471	0	0	NM	NM	NM	435
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,899,447	3,624,933	7.6%	1,896,525	1,702,139	1,716,520	1,649,183	28,641	28,846	257,761	244,765

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.12.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector,
May 2016 and May 2015 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	1,193	1,179	1.1%	0	0	1,111	1,094	82	NM	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	88	NM	0	0	NM	88	0	0	0	0
Massachusetts	420	426	-1.5%	0	0	420	426	0	0	0	0
New Hampshire	215	191	12.0%	0	0	133	106	82	NM	0	0
Rhode Island	371	372	-0.5%	0	0	371	372	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	5,515	5,502	0.2%	0	0	5,294	5,326	NM	NM	157	NM
New Jersey	992	1,019	-2.7%	0	0	951	990	NM	NM	0	0
New York	1,778	1,805	-1.5%	0	0	1,778	1,805	0	0	0	0
Pennsylvania	2,745	2,678	2.5%	0	0	2,565	2,531	NM	NM	157	NM
East North Central	6,715	6,757	-0.6%	752	776	5,870	5,923	32	0	NM	NM
Illinois	1,481	1,501	-1.3%	0	0	1,481	1,501	0	0	0	0
Indiana	771	778	-0.9%	736	747	NM	NM	0	0	NM	NM
Michigan	2,130	2,161	-1.4%	0	0	2,130	2,161	0	0	0	0
Ohio	1,087	1,116	-2.6%	0	NM	1,087	1,101	0	0	0	0
Wisconsin	1,246	1,202	3.7%	NM	NM	1,156	1,143	32	0	NM	NM
West North Central	1,107	1,092	1.4%	341	312	767	780	0	0	0	0
Iowa	266	270	-1.7%	0	0	266	270	0	0	0	0
Kansas	157	159	-1.7%	0	0	157	159	0	0	0	0
Minnesota	378	381	-0.8%	NM	82	294	299	0	0	0	0
Missouri	152	149	1.8%	NM	98	NM	NM	0	0	0	0
Nebraska	155	132	17.0%	155	132	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	4,621	4,618	0.1%	523	494	3,616	3,728	236	204	246	191
Delaware	172	168	2.4%	0	0	138	140	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	628	652	-3.7%	181	151	447	501	0	0	0	0
Georgia	371	401	-7.3%	0	0	318	323	0	NM	NM	NM
Maryland	270	267	1.1%	0	0	191	192	NM	NM	0	0
North Carolina	1,152	1,114	3.4%	0	0	1,020	1,044	132	NM	0	0
South Carolina	530	499	6.1%	334	335	NM	NM	0	0	159	NM
Virginia	1,486	1,506	-1.3%	NM	NM	1,453	1,480	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	541	548	-1.4%	220	223	320	325	0	0	0	0
Alabama	NM	100	NM	0	0	NM	100	0	0	0	0
Kentucky	233	236	-1.2%	220	223	NM	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	183	186	-1.4%	0	0	183	186	0	0	0	0
West South Central	1,673	1,671	0.1%	0	0	1,607	1,630	NM	NM	0	0
Arkansas	169	172	-2.0%	0	0	169	172	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	NM	NM	0	0	NM	NM	0	0	0	0
Texas	1,465	1,459	0.4%	0	0	1,399	1,418	NM	NM	0	0
Mountain	467	541	-14.0%	NM	88	446	453	0	0	0	0
Arizona	NM	161	NM	0	NM	NM	93	0	0	0	0
Colorado	NM	113	NM	0	0	NM	113	0	0	0	0
Idaho	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	149	151	-1.9%	0	0	149	151	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,315	5,429	-2.1%	738	646	3,183	3,268	1,394	1,515	0	0
California	4,187	4,290	-2.4%	222	120	2,620	2,696	1,345	1,474	0	0
Oregon	621	623	-0.4%	137	139	435	443	NM	NM	0	0
Washington	507	516	-1.8%	379	387	128	130	0	0	0	0
Pacific Noncontiguous	105	NM	NM	0	0	0	0	105	NM	0	0
Alaska	105	NM	NM	0	0	0	0	105	NM	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	27,251	27,389	-0.5%	2,595	2,540	22,214	22,528	1,978	1,932	464	389

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

**Table 2.12.B. Consumption of Landfill Gas for Electricity Generation by State, by Sector,
Year-to-Date through May 2016 and May 2015 (Million Cubic Feet)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	5,611	5,610	0.0%	0	0	5,255	5,202	356	408	0	0
Connecticut	235	234	0.5%	0	0	235	234	0	0	0	0
Maine	421	418	0.8%	0	0	421	418	0	0	0	0
Massachusetts	2,032	2,012	1.0%	0	0	2,032	2,012	0	0	0	0
New Hampshire	941	910	3.4%	0	0	585	502	356	408	0	0
Rhode Island	1,733	1,791	-3.2%	0	0	1,733	1,791	0	0	0	0
Vermont	249	246	1.1%	0	0	249	246	0	0	0	0
Middle Atlantic	26,850	26,294	2.1%	0	0	25,833	25,340	374	310	643	644
New Jersey	4,845	4,899	-1.1%	0	0	4,606	4,686	239	213	0	0
New York	8,608	8,521	1.0%	0	0	8,608	8,521	0	0	0	0
Pennsylvania	13,397	12,874	4.1%	0	0	12,619	12,133	NM	NM	643	644
East North Central	32,600	32,752	-0.5%	3,648	3,672	28,424	28,647	221	126	307	308
Illinois	7,160	7,616	-6.0%	0	0	7,160	7,616	0	0	0	0
Indiana	3,748	3,698	1.4%	3,562	3,528	NM	78	0	0	NM	NM
Michigan	10,311	10,204	1.0%	0	0	10,311	10,204	0	0	0	0
Ohio	5,269	5,278	-0.2%	NM	71	5,254	5,208	0	0	0	0
Wisconsin	6,111	5,955	2.6%	NM	73	5,620	5,540	221	126	200	216
West North Central	5,342	5,182	3.1%	1,626	1,508	3,716	3,674	0	0	0	0
Iowa	1,287	1,273	1.1%	0	0	1,287	1,273	0	0	0	0
Kansas	759	751	1.2%	0	0	759	751	0	0	0	0
Minnesota	1,820	1,810	0.6%	395	400	1,426	1,410	0	0	0	0
Missouri	719	727	-1.1%	476	486	243	241	0	0	0	0
Nebraska	756	622	22.0%	756	622	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	22,869	22,880	0.0%	2,421	2,445	17,677	17,694	1,404	1,476	1,366	1,265
Delaware	816	818	-0.2%	0	0	668	663	0	0	NM	155
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,113	3,248	-4.2%	778	807	2,335	2,441	0	0	0	0
Georgia	1,859	2,062	-9.8%	0	0	1,538	1,523	0	257	321	282
Maryland	1,331	1,322	0.7%	0	0	918	913	413	408	0	0
North Carolina	5,777	5,581	3.5%	0	0	4,933	4,902	844	680	0	0
South Carolina	2,680	2,606	2.9%	1,602	1,598	181	180	0	0	897	828
Virginia	7,240	7,189	0.7%	NM	NM	7,052	7,018	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	2,614	2,591	0.9%	1,066	1,056	1,549	1,535	0	0	0	0
Alabama	476	472	1.0%	0	0	476	472	0	0	0	0
Kentucky	1,127	1,117	0.9%	1,066	1,056	NM	NM	0	0	0	0
Mississippi	NM	122	NM	0	0	NM	122	0	0	0	0
Tennessee	887	879	0.9%	0	0	887	879	0	0	0	0
West South Central	8,130	7,937	2.4%	0	0	7,774	7,699	356	238	0	0
Arkansas	819	809	1.3%	0	0	819	809	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	190	189	0.6%	0	0	190	189	0	0	0	0
Texas	7,121	6,939	2.6%	0	0	6,765	6,701	356	238	0	0
Mountain	2,328	2,555	-8.9%	167	419	2,161	2,136	0	0	0	0
Arizona	514	761	-32.0%	NM	319	446	441	0	0	0	0
Colorado	536	530	1.2%	0	0	536	530	0	0	0	0
Idaho	292	291	0.1%	NM	100	193	191	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	265	262	1.2%	0	0	265	262	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	721	712	1.3%	0	0	721	712	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	27,636	28,407	-2.7%	3,832	3,630	15,946	16,071	7,857	8,706	0	0
California	22,130	22,980	-3.7%	1,328	1,157	13,219	13,374	7,583	8,448	0	0
Oregon	3,046	2,997	1.7%	663	656	2,109	2,083	275	258	0	0
Washington	2,460	2,431	1.2%	1,841	1,818	618	613	0	0	0	0
Pacific Noncontiguous	690	559	23.0%	0	0	0	0	690	559	0	0
Alaska	690	559	23.0%	0	0	0	0	690	559	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	134,668	134,767	-0.1%	12,760	12,731	108,334	107,996	11,258	11,824	2,316	2,217

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.13.A. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, May 2016 and May 2015 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	306	291	5.3%	0	0	292	278	14	13	0	0
Connecticut	104	96	8.8%	0	0	104	96	0	0	0	0
Maine	22	21	4.5%	0	0	8	8	14	13	0	0
Massachusetts	171	165	3.5%	0	0	171	165	0	0	0	0
New Hampshire	9	9	1.5%	0	0	9	9	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	435	421	3.3%	0	0	352	341	83	80	0	0
New Jersey	106	105	0.5%	0	0	80	82	26	23	0	0
New York	164	155	6.1%	0	0	130	123	34	32	0	0
Pennsylvania	164	161	2.3%	0	0	142	136	22	25	0	0
East North Central	21	22	-3.6%	3	4	0	0	18	19	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	-12.0%	0	0	0	0	1	1	0	0
Michigan	17	18	-2.9%	0	0	0	0	17	18	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	4	-5.3%	3	4	0	0	0	0	0	0
West North Central	58	58	-1.3%	40	42	16	16	1	NM	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	58	58	-1.3%	40	42	16	16	1	NM	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	462	408	13.0%	60	0	369	378	33	30	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	307	259	18.0%	60	0	246	259	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	78	72	8.8%	0	0	78	72	0	NM	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	78	78	0.1%	0	0	45	48	33	30	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	430.0%	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	430.0%	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	NM	NM	0	0	0	NM	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	NM	NM	0	0	0	NM	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	65	63	3.1%	0	0	65	63	0	0	0	0
California	45	44	3.6%	0	0	45	44	0	0	0	0
Oregon	8	7	1.6%	0	0	8	7	0	0	0	0
Washington	12	12	2.0%	0	0	12	12	0	0	0	0
Pacific Noncontiguous	31	33	-6.5%	0	0	0	0	31	33	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	31	33	-6.5%	0	0	0	0	31	33	0	0
U.S. Total	1,379	1,297	6.3%	104	45	1,094	1,076	180	176	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.13.B. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, Year-to-Date through May 2016 and May 2015 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	1,475	1,454	1.4%	0	0	1,402	1,361	73	93	0	0
Connecticut	524	505	3.7%	0	0	524	484	0	22	0	0
Maine	112	108	3.1%	0	0	39	37	73	71	0	0
Massachusetts	794	797	-0.4%	0	0	794	797	0	0	0	0
New Hampshire	45	43	4.4%	0	0	45	43	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,068	2,007	3.1%	0	0	1,641	1,581	427	426	0	0
New Jersey	534	494	7.9%	0	0	393	353	140	142	0	0
New York	755	755	0.0%	0	0	576	579	179	175	0	0
Pennsylvania	780	758	2.9%	0	0	673	649	108	109	0	0
East North Central	102	97	6.0%	15	15	0	0	87	81	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	3	4	-12.0%	0	0	0	0	3	4	0	0
Michigan	84	78	7.9%	0	0	0	0	84	78	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	15	15	0.5%	15	15	0	0	0	0	0	0
West North Central	258	236	9.1%	171	154	78	75	9	8	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	258	236	9.1%	171	154	78	75	9	8	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,240	1,968	14.0%	266	0	1,820	1,819	153	149	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,535	1,264	21.0%	266	0	1,269	1,264	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	326	308	5.7%	0	0	326	308	NM	NM	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	378	395	-4.2%	0	0	225	246	153	148	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	4	2	94.0%	0	0	0	0	0	0	4	2
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	4	2	94.0%	0	0	0	0	0	0	4	2
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	1	1	1.1%	0	0	1	1	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	1	1.1%	0	0	1	1	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	243	281	-14.0%	0	0	243	281	0	0	0	0
California	146	188	-22.0%	0	0	146	188	0	0	0	0
Oregon	37	36	4.3%	0	0	37	36	0	0	0	0
Washington	60	57	4.0%	0	0	60	57	0	0	0	0
Pacific Noncontiguous	163	153	6.5%	0	0	0	0	163	153	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	163	153	6.5%	0	0	0	0	163	153	0	0
U.S. Total	6,554	6,198	5.7%	452	169	5,185	5,118	912	909	4	2

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Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.14.A. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, May 2016 and May 2015 (Billion Btus)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	4,372	4,604	-5.0%	759	700	3,114	3,301	NM	NM	496	583
Connecticut	437	256	71.0%	0	0	437	256	0	0	0	0
Maine	1,705	1,614	5.6%	0	0	1,209	1,028	0	NM	496	583
Massachusetts	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Hampshire	1,670	2,142	-22.0%	415	470	1,254	1,671	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	451	405	11.0%	344	230	NM	NM	NM	NM	0	0
Middle Atlantic	1,077	957	13.0%	0	0	571	664	0	0	506	292
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	649	716	-9.4%	0	0	571	664	0	0	78	52
Pennsylvania	428	241	78.0%	0	0	0	0	0	0	428	241
East North Central	2,356	2,613	-9.8%	543	421	850	1,229	0	NM	963	962
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,409	1,392	1.2%	0	0	795	851	0	1	614	540
Ohio	154	219	-30.0%	0	0	NM	NM	0	0	100	167
Wisconsin	792	1,001	-21.0%	543	421	0	325	0	NM	249	255
West North Central	832	958	-13.0%	161	145	427	535	0	34	244	244
Iowa	0	NM	NM	0	0	0	0	0	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	832	924	-10.0%	161	145	427	535	0	0	244	244
Missouri	0	33	-100.0%	0	0	0	0	0	33	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	8,171	11,310	-28.0%	1,177	1,684	2,040	3,215	NM	NM	4,935	6,394
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,005	2,056	-51.0%	0	0	323	1,401	0	0	682	655
Georgia	2,114	3,633	-42.0%	0	0	603	480	0	0	1,511	3,153
Maryland	80	68	18.0%	0	0	0	0	NM	NM	60	50
North Carolina	1,380	1,224	13.0%	0	0	822	717	0	0	558	508
South Carolina	2,083	2,167	-3.9%	305	377	NM	411	0	0	1,487	1,380
Virginia	1,508	2,161	-30.0%	872	1,307	0	206	0	0	636	648
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,025	3,014	0.4%	NM	0	187	153	0	0	2,826	2,862
Alabama	1,916	1,873	2.3%	NM	0	187	153	0	0	1,716	1,720
Kentucky	88	150	-41.0%	0	0	0	0	0	0	88	150
Mississippi	606	578	4.8%	0	0	0	0	0	0	606	578
Tennessee	416	414	0.5%	0	0	0	0	0	0	416	414
West South Central	3,134	2,984	5.0%	32	137	153	0	0	0	2,949	2,846
Arkansas	463	664	-30.0%	0	0	0	0	0	0	463	664
Louisiana	1,787	1,479	21.0%	0	0	0	0	0	0	1,787	1,479
Oklahoma	91	93	-2.1%	0	0	0	0	0	0	91	93
Texas	793	747	6.1%	32	137	153	0	0	0	608	610
Mountain	915	825	11.0%	0	0	408	382	0	0	507	444
Arizona	293	256	15.0%	0	0	293	256	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	0	0
Idaho	541	479	13.0%	0	0	67	69	0	0	473	410
Montana	NM	NM	NM	0	0	0	0	0	0	NM	NM
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,556	6,842	-33.0%	71	310	2,993	4,801	0	0	1,492	1,731
California	3,186	4,862	-34.0%	0	0	2,800	4,509	0	0	386	353
Oregon	522	758	-31.0%	0	0	NM	292	0	0	328	465
Washington	848	1,223	-31.0%	71	310	0	0	0	0	778	913
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	28,438	34,107	-17.0%	2,756	3,398	10,741	14,280	24	72	14,917	16,357

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.14.B. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, Year-to-Date through May 2016 and May 2015 (Billion Btus)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	25,241	25,641	-1.6%	3,717	3,707	18,754	18,317	NM	NM	2,719	3,484
Connecticut	1,870	1,053	78.0%	0	0	1,870	1,029	0	NM	0	0
Maine	11,300	12,249	-7.8%	0	0	8,572	8,742	NM	NM	2,719	3,484
Massachusetts	717	823	-13.0%	0	0	717	823	0	0	0	0
New Hampshire	8,769	8,982	-2.4%	1,839	2,003	6,931	6,979	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	2,584	2,534	2.0%	1,879	1,704	664	744	NM	NM	0	0
Middle Atlantic	5,833	5,687	2.6%	0	0	3,346	3,388	0	0	2,487	2,299
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	3,971	3,877	2.4%	0	0	3,342	3,372	0	0	629	505
Pennsylvania	1,862	1,810	2.9%	0	0	NM	NM	0	0	1,858	1,794
East North Central	12,741	13,440	-5.2%	2,359	1,735	5,578	6,510	NM	6	4,804	5,189
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	7,243	7,638	-5.2%	NM	NM	4,306	4,632	0	6	2,937	3,000
Ohio	914	1,222	-25.0%	0	0	263	266	0	0	651	956
Wisconsin	4,584	4,580	0.1%	2,359	1,735	1,009	1,612	NM	NM	1,216	1,232
West North Central	4,297	4,616	-6.9%	850	825	2,398	2,575	110	120	938	1,096
Iowa	NM	NM	NM	0	0	0	0	NM	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	4,187	4,500	-7.0%	850	825	2,398	2,575	0	4	938	1,096
Missouri	108	113	-4.1%	0	0	0	0	108	113	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	48,851	55,231	-12.0%	8,433	7,996	11,735	16,133	91	90	28,592	31,012
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5,684	9,792	-42.0%	0	0	2,281	6,338	0	0	3,403	3,454
Georgia	15,497	17,583	-12.0%	0	0	2,873	2,822	0	0	12,624	14,761
Maryland	348	402	-13.0%	0	0	0	0	91	90	257	312
North Carolina	6,160	6,512	-5.4%	0	0	3,746	3,656	0	0	2,414	2,856
South Carolina	10,090	10,090	0.0%	1,534	1,605	1,738	1,917	0	0	6,818	6,567
Virginia	11,071	10,852	2.0%	6,898	6,391	1,097	1,400	0	0	3,076	3,061
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	15,560	15,703	-0.9%	NM	NM	914	827	0	0	14,609	14,868
Alabama	9,508	9,729	-2.3%	NM	NM	914	827	0	0	8,558	8,895
Kentucky	730	780	-6.4%	0	0	0	0	0	0	730	780
Mississippi	3,329	3,179	4.7%	0	1	0	0	0	0	3,329	3,179
Tennessee	1,992	2,015	-1.1%	0	0	0	0	0	0	1,992	2,015
West South Central	15,452	16,150	-4.3%	81	834	465	399	0	0	14,906	14,916
Arkansas	3,075	3,456	-11.0%	0	0	0	0	0	0	3,075	3,456
Louisiana	8,347	7,940	5.1%	0	0	0	0	0	0	8,347	7,940
Oklahoma	465	483	-3.7%	0	0	0	0	0	0	465	483
Texas	3,565	4,271	-17.0%	81	834	465	399	0	0	3,019	3,037
Mountain	4,133	3,842	7.6%	0	0	1,910	1,861	0	0	2,223	1,982
Arizona	1,327	1,258	5.5%	0	0	1,327	1,258	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	0	0
Idaho	2,354	2,109	12.0%	0	0	301	302	0	0	2,053	1,807
Montana	170	175	-2.5%	0	0	0	0	0	0	170	175
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	27,267	31,187	-13.0%	1,758	1,942	18,122	20,980	0	0	7,386	8,265
California	18,711	21,424	-13.0%	0	0	16,889	19,598	0	0	1,823	1,825
Oregon	2,603	3,724	-30.0%	0	0	1,234	1,381	0	0	1,369	2,343
Washington	5,953	6,039	-1.4%	1,758	1,942	0	0	0	0	4,195	4,097
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	159,375	171,497	-7.1%	17,235	17,047	63,222	70,990	252	349	78,666	83,111

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2006 - May 2016

Period	Electric Power Sector			Electric Utilities			Independent Power Producers		
	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
2006	140,964	48,216	674	110,277	29,799	456	30,688	18,416	217
2007	151,221	44,433	554	120,504	28,032	253	30,717	16,401	301
2008	161,589	40,804	739	127,463	26,108	468	34,126	14,696	270
2009	189,467	39,210	1,394	154,815	25,811	1,194	34,652	13,399	201
2010	174,917	35,706	1,019	143,744	24,798	850	31,173	10,908	168
2011	172,387	34,847	508	142,103	25,648	404	30,284	9,198	104
2012	185,116	32,224	495	150,942	23,875	414	34,174	8,349	81
2013	147,884	31,673	390	120,792	22,494	303	27,092	9,179	86
2014	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
2015	197,128	32,223	1,342	155,759	20,978	1,165	41,370	11,244	177
Year 2014, End of Month Stocks									
January	133,705	27,553	298	108,249	20,649	216	25,456	6,904	83
February	119,904	29,158	277	97,363	20,964	202	22,541	8,195	74
March	118,260	29,197	350	96,029	21,341	282	22,231	7,855	67
April	128,925	29,568	515	103,431	21,583	451	25,494	7,985	64
May	136,921	29,376	458	108,064	21,446	374	28,856	7,930	84
June	133,479	29,738	397	103,948	21,568	343	29,531	8,170	54
July	125,870	29,120	381	97,829	20,967	300	28,041	8,152	81
August	121,369	29,346	388	93,552	21,205	289	27,817	8,141	99
Sept	124,546	29,789	389	96,266	21,338	297	28,280	8,451	92
October	136,964	30,883	510	105,094	21,741	394	31,870	9,142	117
November	142,595	32,829	633	110,221	22,103	502	32,374	10,726	131
December	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
Year 2015, End of Month Stocks									
January	154,749	32,644	892	119,838	22,006	742	34,911	10,638	150
February	149,765	28,241	850	117,007	20,000	723	32,758	8,241	127
March	155,004	29,106	818	122,327	20,722	698	32,677	8,383	120
April	167,681	28,995	912	131,680	20,637	776	36,001	8,358	136
May	173,436	29,385	999	135,932	20,786	856	37,504	8,599	143
June	167,039	29,435	1,031	132,123	20,737	883	34,916	8,698	149
July	158,596	29,064	1,065	125,879	20,442	909	32,716	8,623	156
August	156,545	28,993	1,029	124,825	20,162	891	31,719	8,831	138
Sept	162,684	30,053	1,102	129,942	20,348	973	32,742	9,706	129
October	176,140	30,994	1,149	140,405	20,353	1,024	35,736	10,641	125
November	189,120	31,894	1,292	150,849	20,680	1,160	38,271	11,214	131
December	197,128	32,223	1,342	155,759	20,978	1,165	41,370	11,244	177
Year 2016, End of Month Stocks									
January	189,073	31,755	1,321	149,028	20,673	1,090	40,045	11,082	231
February	188,975	31,298	1,324	148,654	20,510	1,064	40,321	10,788	259
March	194,309	31,070	1,240	152,165	20,475	974	42,144	10,595	266
April	196,163	31,360	1,182	154,589	20,844	902	41,573	10,516	280
May	195,601	31,633	1,072	153,713	21,047	826	41,888	10,586	246

Notes: See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

**Table 3.2 Stocks of Coal, Petroleum Liquids, and Petroleum Coke:
Electric Power Sector, by State, May 2016 and 2015**

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	May 2016	May 2015	Percentage Change	May 2016	May 2015	Percentage Change	May 2016	May 2015	Percentage Change
New England	1,795	1,333	34.6%	4,668	3,318	40.7%	0	0	--
Connecticut	W	W	W	1,633	1,186	37.7%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,911	1,216	57.2%	0	0	--
New Hampshire	W	W	W	W	W	W	0	0	--
Rhode Island	W	0	W	W	W	W	0	0	--
Vermont	0	0	--	46	50	-9.7%	0	0	--
Middle Atlantic	W	7,171	W	5,364	4,620	16.1%	W	W	W
New Jersey	783	933	-16.0%	691	652	6.1%	0	0	--
New York	W	532	W	3,387	2,751	23.1%	0	0	--
Pennsylvania	W	5,706	W	1,285	1,217	5.6%	W	W	W
East North Central	43,244	36,544	18.3%	1,066	1,123	-5.1%	255	139	83.5%
Illinois	10,434	9,723	7.3%	66	81	-18.1%	0	0	--
Indiana	11,763	10,769	9.2%	98	112	-13.0%	0	0	--
Michigan	6,084	5,362	13.5%	318	329	-3.3%	W	W	W
Ohio	10,364	6,016	72.3%	373	367	1.6%	W	W	W
Wisconsin	4,599	4,675	-1.6%	211	234	-9.6%	W	W	W
West North Central	32,870	27,108	21.3%	1,580	1,710	-7.6%	0	0	--
Iowa	8,453	4,583	84.4%	134	164	-18.1%	0	0	--
Kansas	4,964	4,218	17.7%	681	678	0.4%	0	0	--
Minnesota	4,421	4,293	3.0%	126	135	-6.4%	0	0	--
Missouri	9,511	9,035	5.3%	395	420	-5.9%	0	0	--
Nebraska	W	2,908	W	160	230	-30.5%	0	0	--
North Dakota	1,866	W	W	38	43	-11.3%	0	0	--
South Dakota	W	W	W	46	40	13.8%	0	0	--
South Atlantic	36,799	31,694	16.1%	12,171	11,249	8.2%	W	W	W
Delaware	W	W	W	436	215	103.0%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	6,317	6,388	-1.1%	5,339	5,653	-5.6%	112	W	W
Georgia	6,544	5,717	14.5%	834	862	-3.3%	0	0	--
Maryland	1,853	1,369	35.3%	812	698	16.4%	0	0	--
North Carolina	7,655	6,866	11.5%	1,180	1,109	6.4%	0	0	--
South Carolina	6,273	4,978	26.0%	682	715	-4.6%	0	0	--
Virginia	2,092	1,847	13.3%	2,771	1,869	48.3%	0	0	--
West Virginia	W	W	W	116	127	-8.5%	W	W	W
East South Central	18,270	18,363	-0.5%	1,917	2,043	-6.2%	W	W	W
Alabama	4,647	5,044	-7.9%	340	404	-15.8%	0	0	--
Kentucky	8,889	8,472	4.9%	239	252	-5.2%	W	W	W
Mississippi	1,377	1,355	1.6%	578	580	-0.4%	0	0	--
Tennessee	3,357	3,492	-3.9%	760	807	-5.8%	0	0	--
West South Central	32,198	28,857	11.6%	1,886	1,952	-3.4%	W	W	W
Arkansas	5,613	4,108	36.6%	W	W	W	0	0	--
Louisiana	3,601	3,641	-1.1%	440	473	-7.0%	W	W	W
Oklahoma	6,097	4,585	33.0%	W	W	W	0	0	--
Texas	16,887	16,522	2.2%	1,166	1,202	-3.0%	0	0	--
Mountain	21,911	19,753	10.9%	362	417	-13.2%	W	W	W
Arizona	4,532	4,230	7.1%	131	138	-5.2%	0	0	--
Colorado	5,463	5,376	1.6%	109	130	-16.0%	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	W	W	W	W	W	W
Nevada	W	1,314	W	W	W	W	0	0	--
New Mexico	W	W	W	32	40	-20.7%	0	0	--
Utah	4,742	3,575	32.6%	42	49	-14.3%	0	0	--
Wyoming	3,961	3,173	24.8%	24	34	-27.3%	0	0	--
Pacific Contiguous	W	W	W	336	334	0.5%	0	0	--
California	0	0	--	157	153	2.7%	0	0	--
Oregon	W	W	W	W	W	W	0	0	--
Washington	W	W	W	W	W	W	0	0	--
Pacific Noncontiguous	W	W	W	2,282	2,618	-12.9%	0	0	--
Alaska	W	W	W	35	140	-75.1%	0	0	--
Hawaii	W	W	W	2,247	2,479	-9.3%	0	0	--
U.S. Total	195,601	173,436	12.8%	31,633	29,385	7.6%	1,072	999	7.3%

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke:
Electric Power Sector, by Census Divison, May 2016 and 2015

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015
Coal (Thousand Tons)							
New England	1,795	1,333	34.6%	W	W	W	W
Middle Atlantic	W	7,171	W	0	0	W	7,171
East North Central	43,244	36,544	18.3%	26,844	24,428	16,400	12,117
West North Central	32,870	27,108	21.3%	32,870	27,108	0	0
South Atlantic	36,799	31,694	16.1%	33,419	28,911	3,380	2,782
East South Central	18,270	18,363	-0.5%	18,270	18,363	0	0
West South Central	32,198	28,857	11.6%	19,979	16,985	12,219	11,871
Mountain	21,911	19,753	10.9%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	W	W	W	W
U.S. Total	195,601	173,436	12.8%	153,713	135,932	41,888	37,504
Petroleum Liquids (Thousand Barrels)							
New England	4,668	3,318	40.7%	708	677	3,960	2,641
Middle Atlantic	5,364	4,620	16.1%	2,041	1,757	3,323	2,863
East North Central	1,066	1,123	-5.1%	756	815	310	308
West North Central	1,580	1,710	-7.6%	1,558	1,684	23	26
South Atlantic	12,171	11,249	8.2%	9,927	9,357	2,244	1,891
East South Central	1,917	2,043	-6.2%	W	W	W	W
West South Central	1,886	1,952	-3.4%	1,407	W	479	W
Mountain	362	417	-13.2%	W	386	W	31
Pacific Contiguous	336	334	0.5%	232	241	104	93
Pacific Noncontiguous	2,282	2,618	-12.9%	W	W	W	W
U.S. Total	31,633	29,385	7.6%	21,047	20,786	10,586	8,599
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	W	W	W	0	0	W	W
East North Central	255	139	83.5%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	112	W	W	W
East South Central	W	W	W	W	W	0	0
West South Central	W	W	W	W	W	0	0
Mountain	W	W	W	0	0	W	W
Pacific Contiguous	0	0	--	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0
U.S. Total	1,072	999	7.3%	W	856	W	143

W = Withheld to avoid disclosure of individual company data.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form-923, 'Power Plant Operations Report.'

Table 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2006 - May 2016

Period	Electric Power Sector			
	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
2006	67,760	68,408	4,797	140,964
2007	63,964	82,692	4,565	151,221
2008	65,818	91,214	4,556	161,589
2009	91,922	92,448	5,097	189,467
2010	81,108	86,915	6,894	174,917
2011	82,056	85,151	5,179	172,387
2012	86,437	93,833	4,846	185,116
2013	73,113	69,720	5,051	147,884
2014	72,771	72,552	6,225	151,548
2015	82,787	109,363	4,979	197,128
Year 2014, End of Month Stocks				
January	63,618	64,709	5,378	133,705
February	56,041	58,418	5,445	119,904
March	55,150	57,657	5,453	118,260
April	60,602	62,266	6,056	128,925
May	63,782	66,827	6,311	136,921
June	62,679	64,378	6,423	133,479
July	60,134	59,514	6,222	125,870
August	60,128	54,787	6,453	121,369
Sept	63,031	55,432	6,082	124,546
October	69,246	61,368	6,350	136,964
November	70,666	66,105	5,824	142,595
December	72,771	72,552	6,225	151,548
Year 2015, End of Month Stocks				
January	70,519	78,678	5,552	154,749
February	64,718	79,751	5,296	149,765
March	65,701	84,359	4,944	155,004
April	71,246	91,239	5,195	167,681
May	74,471	93,858	5,107	173,436
June	73,179	89,141	4,719	167,039
July	68,526	85,284	4,785	158,596
August	68,029	83,995	4,520	156,545
Sept	70,609	87,500	4,575	162,684
October	76,457	95,051	4,633	176,140
November	80,454	103,942	4,724	189,120
December	82,787	109,363	4,979	197,128
Year 2016, End of Month Stocks				
January	78,003	106,385	4,685	189,073
February	77,699	106,696	4,580	188,975
March	81,158	108,304	4,847	194,309
April	83,033	108,010	5,120	196,163
May	84,022	106,356	5,223	195,601

Notes: See Glossary for definitions.

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923. and predecessor forms. Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms. Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following:

Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2006 - May 2016

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2006	21,735,101	1,079,943	1.69	34.09	0.97	102.5	406,869	65,002	8.68	54.35	0.73	74.0
2007	21,152,358	1,054,664	1.77	35.48	0.96	98.6	375,260	60,068	9.59	59.93	0.71	62.6
2008	21,280,258	1,069,709	2.07	41.14	0.97	100.5	375,684	61,139	15.52	95.38	0.61	99.6
2009	19,437,966	981,477	2.21	43.74	1.01	102.8	330,043	54,181	10.25	62.47	0.54	104.8
2010	19,289,661	979,918	2.27	44.64	1.16	97.9	275,058	45,472	14.02	84.80	0.51	101.1
2011	18,675,843	956,538	2.39	46.65	1.19	100.0	216,752	36,158	19.94	119.54	0.60	116.1
2012	16,265,578	841,183	2.38	46.09	1.25	99.5	116,937	19,464	21.85	131.28	0.51	75.7
2013	15,906,809	823,222	2.34	45.33	1.29	93.7	123,964	20,413	20.56	124.90	0.46	76.5
2014	16,594,722	854,560	2.37	45.96	1.32	98.0	172,421	28,514	19.87	120.26	0.46	82.3
2015	14,877,850	769,866	2.22	42.99	1.30	101.5	148,763	24,512	11.47	69.74	0.51	75.1
Year 2014												
January	1,319,894	69,313	2.29	43.69	1.25	81.1	27,209	4,554	21.85	130.73	0.43	42.0
February	1,217,895	62,838	2.32	45.04	1.34	80.8	26,164	4,306	21.60	131.42	0.45	124.7
March	1,400,614	71,444	2.36	46.35	1.35	96.8	15,224	2,519	21.94	132.68	0.45	66.7
April	1,339,967	68,102	2.39	46.96	1.33	114.5	8,983	1,487	21.71	131.18	0.42	84.5
May	1,383,924	70,623	2.40	46.93	1.37	107.9	8,655	1,437	21.18	127.58	0.46	77.4
June	1,366,947	70,055	2.38	46.50	1.35	92.5	9,334	1,546	21.41	129.29	0.45	90.4
July	1,431,182	73,973	2.38	45.96	1.27	89.2	8,455	1,399	21.29	128.62	0.50	74.0
August	1,488,018	76,671	2.37	45.95	1.32	92.9	9,182	1,509	20.62	125.46	0.52	77.3
Sept	1,403,234	72,158	2.37	46.16	1.33	102.4	10,222	1,686	19.67	119.51	0.51	92.8
October	1,416,761	72,959	2.31	44.84	1.29	116.8	12,851	2,134	18.49	111.46	0.48	121.4
November	1,372,572	71,000	2.30	44.54	1.29	107.4	17,787	2,959	16.53	99.41	0.43	155.7
December	1,453,713	75,424	2.51	48.34	1.29	108.7	18,356	2,977	13.87	85.54	0.49	155.0
Year 2015												
January	1,398,063	72,404	2.29	44.17	1.29	99.2	13,202	2,182	12.74	77.12	0.57	59.2
February	1,157,768	60,083	2.26	43.55	1.30	87.7	20,151	3,312	12.59	76.71	0.51	35.7
March	1,218,245	62,520	2.26	44.07	1.29	104.5	15,756	2,602	W	W	0.70	125.7
April	1,164,607	59,958	2.23	43.41	1.33	120.1	9,123	1,515	13.17	79.48	0.43	86.2
May	1,209,862	61,852	2.26	44.27	1.35	105.5	11,087	1,828	12.56	76.29	0.45	93.5
June	1,183,203	60,901	2.25	43.80	1.37	86.3	9,793	1,618	13.56	82.09	0.49	81.4
July	1,289,251	67,423	2.21	42.32	1.25	86.1	8,752	1,446	12.57	76.19	0.48	64.0
August	1,375,298	71,012	2.23	43.22	1.30	94.0	9,220	1,542	12.06	72.84	0.47	74.8
Sept	1,341,110	69,499	2.22	42.77	1.30	104.7	14,419	2,366	9.70	59.07	0.49	120.8
October	1,266,451	65,867	2.14	41.24	1.26	119.2	13,158	2,152	9.13	55.82	0.44	121.3
November	1,166,128	60,780	2.15	41.32	1.25	119.4	14,087	2,296	8.94	54.93	0.53	115.6
December	1,107,863	57,567	2.16	41.55	1.29	111.3	10,015	1,653	8.82	53.49	0.42	89.2
Year 2016												
January	1,019,963	53,356	2.12	40.55	1.33	83.8	8,932	1,499	7.92	47.24	0.46	57.2
February	965,792	49,873	2.11	40.88	1.40	95.8	7,927	1,307	6.98	42.32	0.46	55.7
March	884,181	44,893	2.18	42.88	1.46	108.7	6,868	1,133	6.92	41.94	0.44	72.2
April	794,724	40,229	2.16	42.64	1.46	100.1	8,524	1,403	8.37	50.85	0.41	92.1
May	859,327	43,883	2.16	42.39	1.45	94.7	9,129	1,520	9.79	58.87	0.44	83.2
Year to Date												
2014	6,662,295	342,320	2.35	45.81	1.33	94.6	86,234	14,302	21.71	131.01	0.44	66.0
2015	6,148,545	316,817	2.26	43.91	1.31	102.2	69,319	11,439	12.68	76.97	0.54	61.0
2016	4,523,987	232,234	2.14	41.78	1.42	95.4	41,381	6,863	8.07	48.72	0.44	69.4
Rolling 12 Months Ending in May												
2015	16,080,972	829,056	2.33	45.23	1.31	101.2	155,506	25,650	W	W	0.51	80.9
2016	13,253,292	685,284	2.18	42.15	1.33	99.0	120,825	19,936	9.62	58.40	0.46	83.9

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2006 - May 2016 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2006	203,270	7,193	1.33	37.46	5.15	83.4	6,855,680	6,675,246	6.94	7.13	90.2	3.02
2007	161,091	5,656	1.51	43.02	5.07	77.5	7,396,233	7,200,316	7.11	7.30	90.4	3.23
2008	199,724	7,040	2.11	59.72	4.98	111.5	8,089,467	7,879,046	9.01	9.26	102.5	4.12
2009	197,921	6,954	1.61	45.89	4.63	119.3	8,319,329	8,118,550	4.74	4.86	102.3	3.04
2010	169,508	5,963	2.28	64.85	4.79	98.5	8,867,396	8,673,070	5.09	5.20	102.0	3.26
2011	171,100	5,980	3.03	86.78	5.01	98.2	9,250,652	9,056,164	4.72	4.83	103.8	3.29
2012	119,667	4,180	2.24	64.14	5.55	83.3	9,746,691	9,531,389	3.42	3.50	91.9	2.83
2013	132,474	4,660	2.18	61.95	5.41	73.5	8,721,114	8,503,424	4.33	4.44	89.7	3.09
2014	147,310	5,195	1.98	56.23	5.56	91.2	8,679,286	8,431,423	5.00	5.14	89.6	3.31
2015	135,648	4,779	1.87	52.95	5.26	87.7	10,178,706	9,843,170	3.22	3.33	89.7	2.65
Year 2014												
January	10,073	357	1.82	51.28	5.26	66.1	708,775	691,024	7.02	7.20	88.4	4.07
February	10,261	363	W	W	5.47	79.9	588,885	573,618	7.40	7.59	88.4	W
March	13,196	468	2.02	57.09	5.81	88.8	607,103	591,486	6.00	6.16	89.1	3.52
April	12,986	459	2.13	60.37	5.94	109.7	594,114	578,726	5.07	5.20	89.5	3.23
May	12,640	448	2.19	61.62	5.55	89.0	690,306	671,336	4.93	5.07	89.7	3.25
June	11,659	409	2.07	59.14	5.77	77.7	760,055	738,843	4.84	4.98	89.9	3.27
July	11,616	407	1.90	54.16	5.69	81.6	887,618	861,696	4.43	4.57	90.4	3.17
August	12,764	448	1.97	56.12	5.52	90.8	945,250	916,932	4.12	4.24	90.8	3.06
Sept	11,787	414	1.92	54.55	5.43	85.5	813,131	788,357	4.20	4.33	90.0	3.06
October	11,011	390	1.79	50.65	5.31	123.3	745,276	722,544	4.10	4.23	89.5	2.96
November	12,217	431	1.86	52.74	5.45	109.7	648,562	628,693	4.48	4.62	89.3	3.06
December	17,100	600	2.00	57.09	5.41	111.5	690,212	668,170	4.36	4.50	89.3	3.14
Year 2015												
January	13,724	484	2.03	57.48	5.23	89.7	758,731	735,038	4.10	4.23	88.9	2.93
February	9,660	338	1.79	51.07	5.30	60.9	691,341	669,546	4.68	4.83	89.2	3.20
March	9,506	338	2.03	57.09	5.17	79.5	753,516	729,499	3.54	3.66	89.3	W
April	11,059	392	1.99	56.16	5.01	93.3	716,775	693,083	3.09	3.20	90.2	2.58
May	11,883	419	2.05	58.07	5.24	94.4	786,889	760,832	3.14	3.24	90.2	2.64
June	9,380	330	1.89	53.88	5.57	78.2	934,429	902,609	3.12	3.22	90.3	2.66
July	12,797	451	1.93	54.69	5.08	85.9	1,094,467	1,057,757	3.11	3.22	90.8	2.63
August	11,327	396	1.85	52.86	5.02	79.0	1,073,235	1,038,238	3.11	3.21	90.4	2.62
Sept	13,033	458	1.76	50.19	5.13	93.7	938,770	907,301	3.06	3.16	90.0	2.58
October	10,836	380	W	W	5.09	96.1	832,943	804,172	2.91	3.01	89.1	W
November	11,781	416	1.61	45.64	5.61	112.3	784,419	759,145	2.65	2.73	89.6	2.38
December	10,661	378	1.59	44.81	5.75	103.8	813,191	785,951	2.59	2.68	88.4	2.36
Year 2016												
January	9,639	341	1.38	38.93	5.68	79.5	821,121	793,369	3.01	3.11	89.0	2.52
February	11,272	408	1.30	35.80	5.53	94.7	732,394	707,751	2.70	2.79	88.7	2.37
March	10,312	363	1.41	40.14	5.33	75.9	787,991	762,618	2.23	2.31	89.7	2.22
April	10,307	369	1.35	37.75	5.56	79.0	773,119	748,340	2.42	2.50	89.7	2.31
May	8,554	307	1.32	36.76	5.35	68.7	846,074	819,508	2.40	2.48	89.5	2.31
Year to Date												
2014	59,156	2,095	2.05	57.98	5.63	85.8	3,189,184	3,106,189	6.09	6.25	89.0	3.63
2015	55,832	1,971	1.98	56.18	5.19	82.7	3,707,253	3,587,998	3.69	3.82	89.6	2.83
2016	50,085	1,787	1.35	37.85	5.49	79.4	3,960,700	3,831,586	2.55	2.64	89.3	2.35
Rolling 12 Months Ending in May												
2015	143,987	5,070	1.95	55.51	5.38	90.0	9,197,355	8,913,232	4.09	4.22	89.8	W
2016	129,901	4,596	W	W	5.38	86.4	10,432,153	10,086,759	2.80	2.90	89.6	W

Displayed values of zero may represent small values that round to zero.

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes:

Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:

PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

- Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary.

- See Glossary for definitions.

- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.

- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

- See the Technical Notes for fuel conversion factors.

- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2006 - May 2016

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2006	16,197,852	797,361	1.69	34.26	0.92	105.8	269,033	42,415	8.33	52.80	0.82	79.2
2007	15,561,395	767,377	1.78	36.06	0.92	100.3	216,349	34,026	9.24	58.73	0.77	59.8
2008	15,347,396	764,399	2.06	41.32	0.93	100.5	240,937	38,891	15.83	98.09	0.60	99.7
2009	14,402,019	719,253	2.22	44.47	0.99	103.4	202,598	32,959	10.44	64.18	0.51	103.5
2010	14,226,995	713,094	2.27	45.33	1.14	98.8	189,790	31,099	13.94	85.07	0.48	101.0
2011	13,871,559	699,353	2.40	47.67	1.16	101.5	144,255	23,859	20.30	122.72	0.53	114.5
2012	11,939,543	609,445	2.43	47.51	1.18	99.0	86,030	14,252	22.11	133.44	0.41	81.3
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
2015	11,219,729	577,055	2.25	43.74	1.19	105.0	89,904	14,724	11.30	69.02	0.46	77.0
Year 2014												
January	939,850	48,843	2.30	44.18	1.13	79.8	12,001	2,011	21.72	129.64	0.32	44.6
February	870,977	44,490	2.31	45.27	1.23	80.6	12,180	2,005	21.72	131.94	0.49	106.4
March	991,708	50,353	2.37	46.61	1.23	97.5	8,992	1,474	21.53	131.41	0.39	76.6
April	948,645	47,838	2.41	47.72	1.23	116.0	6,691	1,099	21.74	132.35	0.36	85.6
May	1,003,354	50,694	2.42	47.83	1.27	107.4	5,313	885	21.88	131.42	0.34	68.2
June	998,236	50,508	2.40	47.48	1.25	90.8	6,271	1,037	21.65	130.91	0.34	87.9
July	1,059,989	53,961	2.41	47.22	1.19	89.5	5,979	985	21.28	129.22	0.47	75.2
August	1,096,270	55,759	2.40	47.18	1.22	92.5	6,800	1,108	20.61	126.44	0.50	84.5
Sept	1,037,230	52,716	2.41	47.40	1.21	103.8	6,921	1,137	19.90	121.13	0.48	87.7
October	1,047,018	53,419	2.34	45.74	1.20	118.6	6,939	1,148	19.33	117.03	0.48	94.2
November	1,010,559	51,705	2.33	45.51	1.20	110.9	7,512	1,237	17.71	107.56	0.50	100.6
December	1,060,973	54,441	2.60	50.75	1.20	108.8	12,760	2,035	13.22	82.91	0.46	160.4
Year 2015												
January	1,036,958	53,439	2.30	44.72	1.20	103.5	8,826	1,452	11.80	71.71	0.57	69.0
February	864,004	44,588	2.26	43.75	1.20	91.6	8,601	1,406	11.71	71.64	0.47	37.9
March	927,684	47,541	2.26	44.10	1.20	110.3	10,165	1,669	12.11	73.85	0.52	132.3
April	878,588	45,081	2.26	44.01	1.22	122.2	6,578	1,082	13.26	80.56	0.39	86.7
May	923,980	47,039	2.29	44.97	1.23	107.9	7,247	1,180	12.33	75.72	0.46	92.6
June	905,477	46,233	2.27	44.47	1.25	89.9	7,498	1,234	13.66	82.96	0.46	87.5
July	976,543	50,671	2.24	43.10	1.13	88.7	6,277	1,028	12.47	76.13	0.40	66.8
August	1,035,462	53,072	2.26	44.06	1.19	96.7	5,726	946	11.75	71.15	0.42	65.1
Sept	1,005,631	51,566	2.26	44.05	1.19	108.2	7,101	1,158	9.75	59.76	0.38	91.5
October	951,213	49,116	2.19	42.34	1.15	123.3	5,910	970	9.43	57.50	0.44	78.5
November	880,076	45,573	2.20	42.46	1.14	125.0	8,563	1,387	8.80	54.37	0.57	99.8
December	834,115	43,135	2.21	42.69	1.17	112.2	7,413	1,211	8.52	52.13	0.37	98.1
Year 2016												
January	757,172	39,300	2.17	41.78	1.19	85.1	6,397	1,058	7.86	47.57	0.44	61.6
February	727,561	37,332	2.16	42.06	1.24	97.9	5,828	957	6.93	42.18	0.41	66.4
March	691,199	34,824	2.20	43.61	1.36	110.2	5,242	854	6.72	41.26	0.40	79.6
April	616,378	31,090	2.19	43.44	1.32	107.0	6,901	1,126	8.38	51.32	0.37	108.0
May	655,894	33,443	2.17	42.56	1.25	97.9	6,751	1,116	9.12	55.16	0.40	92.4
Year to Date												
2014	4,754,534	242,218	2.36	46.35	1.22	94.5	45,177	7,473	21.70	131.21	0.40	68.6
2015	4,631,213	237,689	2.27	44.33	1.21	106.2	41,417	6,789	12.18	74.34	0.49	70.7
2016	3,448,204	175,988	2.18	42.64	1.27	98.3	31,120	5,112	7.88	47.98	0.40	78.8
Rolling 12 Months Ending in May												
2015	11,941,489	610,199	2.36	46.17	1.21	103.0	94,598	15,477	15.66	95.74	0.47	84.0
2016	10,036,720	515,354	2.21	43.10	1.21	102.1	79,607	13,046	9.51	58.01	0.42	81.5

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2006 - May 2016 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2006	99,471	3,516	1.49	42.21	5.11	97.2	2,222,289	2,163,113	7.36	7.56	87.3	2.45
2007	84,812	2,964	1.73	49.57	5.09	105.6	2,378,104	2,315,637	7.47	7.67	84.6	2.61
2008	80,987	2,843	2.13	60.51	5.36	123.8	2,856,354	2,784,642	9.15	9.39	102.0	3.33
2009	109,126	3,833	1.68	47.84	5.02	138.8	3,033,133	2,962,640	5.50	5.63	101.8	2.87
2010	103,152	3,628	2.38	67.65	5.03	109.1	3,395,962	3,327,919	5.43	5.54	101.1	2.99
2011	99,208	3,445	3.08	88.73	5.17	99.9	3,571,348	3,507,613	5.00	5.09	101.8	3.08
2012	72,782	2,521	2.30	66.40	5.46	119.8	4,083,579	4,003,457	3.74	3.81	97.6	2.86
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
2015	115,651	4,059	1.77	50.44	5.23	129.8	4,662,350	4,510,926	3.52	3.64	95.1	2.66
Year 2014												
January	8,753	309	1.79	50.66	5.22	88.7	322,118	314,783	6.23	6.37	96.8	3.45
February	8,883	312	2.01	57.15	5.47	113.1	261,721	255,665	7.00	7.16	96.1	3.56
March	11,235	396	1.94	54.97	5.85	119.1	269,374	263,288	5.93	6.06	96.8	3.24
April	11,184	394	2.07	58.69	5.98	186.0	270,455	264,009	5.34	5.47	97.6	3.14
May	10,813	383	2.13	60.11	5.57	121.8	324,319	316,054	5.26	5.40	97.7	3.18
June	9,321	325	1.97	56.35	5.85	95.9	346,749	337,837	5.17	5.31	96.9	3.19
July	9,697	339	1.79	51.25	5.70	113.6	390,076	379,146	4.84	4.98	96.4	3.12
August	10,451	365	1.85	52.89	5.51	122.5	424,307	412,297	4.47	4.60	96.6	3.05
Sept	9,844	345	1.81	51.54	5.40	122.6	353,112	342,647	4.63	4.77	96.2	3.05
October	9,240	326	1.65	46.75	5.25	182.8	323,101	313,490	4.55	4.69	96.8	2.93
November	10,079	354	1.70	48.51	5.43	154.6	288,185	279,556	4.75	4.90	96.6	2.94
December	14,294	499	1.90	54.38	5.40	149.0	303,034	293,825	4.61	4.76	96.6	3.13
Year 2015												
January	11,509	404	1.94	55.36	5.21	129.1	339,941	329,825	4.25	4.38	96.1	2.83
February	8,617	301	1.72	49.17	5.31	90.5	319,671	310,056	4.59	4.73	94.8	2.94
March	7,949	283	1.95	54.67	5.16	144.7	341,334	330,809	3.78	3.90	95.4	2.74
April	8,845	313	1.95	55.11	4.92	146.8	329,072	318,796	3.48	3.59	96.8	2.64
May	10,125	357	1.98	56.26	5.21	136.5	359,488	347,975	3.50	3.62	97.0	2.68
June	7,485	262	1.73	49.60	5.62	111.4	439,136	424,467	3.47	3.59	94.9	2.72
July	11,256	395	1.86	52.91	5.04	118.3	502,578	485,114	3.46	3.59	94.7	2.68
August	9,787	342	1.76	50.54	4.92	109.8	487,563	471,677	3.46	3.57	94.4	2.67
Sept	12,216	429	1.72	49.08	5.09	145.7	424,428	410,359	3.40	3.52	94.2	2.62
October	9,542	333	1.77	50.65	5.05	143.8	378,083	364,363	3.25	3.37	94.9	2.51
November	9,986	351	1.46	41.60	5.64	198.2	362,897	351,814	2.98	3.07	96.0	2.46
December	8,335	291	1.34	38.45	5.76	126.4	378,160	365,672	2.95	3.05	93.6	2.47
Year 2016												
January	7,935	278	1.15	32.96	5.67	91.8	389,788	376,962	3.28	3.39	96.7	2.56
February	9,837	356	1.13	31.18	5.53	131.0	352,362	340,293	2.96	3.07	96.3	2.43
March	8,402	294	1.21	34.47	5.28	103.8	379,127	366,817	2.53	2.62	96.4	2.33
April	8,436	300	1.14	31.95	5.58	92.1	368,223	356,568	2.72	2.80	96.6	2.42
May	7,842	281	1.22	34.16	5.35	94.9	397,649	384,725	2.70	2.79	94.3	2.41
Year to Date												
2014	50,867	1,794	1.99	56.52	5.65	121.0	1,447,986	1,413,799	5.93	6.07	97.0	3.31
2015	47,045	1,657	1.91	54.27	5.17	126.0	1,689,506	1,637,461	3.91	4.03	96.0	2.76
2016	42,453	1,509	1.17	32.86	5.48	102.0	1,887,148	1,825,364	2.84	2.93	96.0	2.43
Rolling 12 Months Ending in May												
2015	119,971	4,211	1.85	52.79	5.37	128.6	4,118,069	3,996,259	4.38	4.52	96.3	2.94
2016	111,059	3,911	1.48	42.04	5.35	118.8	4,859,993	4,698,829	3.12	3.23	95.2	2.54

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NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes:

Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:

PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

- Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary.

- See Glossary for definitions.

- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.

- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

- See the Technical Notes for fuel conversion factors.

- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2006 - May 2016

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2006	5,204,402	266,856	1.69	33.04	1.09	97.7	117,524	19,236	9.65	58.98	0.45	104.9
2007	5,275,454	273,216	1.71	33.11	1.06	97.5	125,025	20,486	10.49	64.01	0.45	85.0
2008	5,395,142	281,258	2.03	38.98	1.04	100.4	82,124	13,657	16.30	98.03	0.41	94.4
2009	4,563,080	240,687	2.11	39.94	1.06	101.1	68,030	11,408	10.02	59.76	0.37	102.0
2010	4,555,898	243,585	2.20	41.15	1.21	96.0	49,598	8,420	14.80	87.19	0.35	89.9
2011	4,292,284	233,295	2.28	41.95	1.25	95.9	41,599	7,096	20.30	119.01	0.50	106.9
2012	4,036,436	218,341	2.21	40.92	1.42	104.9	23,922	4,073	22.34	131.28	0.44	79.8
2013	4,032,431	217,572	2.20	40.95	1.48	99.1	43,432	7,205	19.71	118.88	0.45	110.1
2014	4,243,949	226,600	2.25	42.20	1.61	100.1	71,774	11,980	19.90	119.36	0.45	101.0
2015	3,468,061	184,440	2.11	39.65	1.63	97.1	54,504	9,075	11.64	70.10	0.46	86.1
Year 2014												
January	356,260	19,360	2.25	41.46	1.56	86.8	14,823	2,481	22.05	132.09	0.46	43.7
February	324,520	17,309	2.31	43.39	1.62	83.0	13,652	2,247	21.53	131.09	0.39	189.3
March	383,238	19,906	2.32	44.67	1.66	97.8	6,096	1,023	22.59	134.69	0.52	66.2
April	368,214	19,193	2.29	44.00	1.60	114.9	2,150	365	21.88	129.00	0.48	127.7
May	358,005	18,880	2.30	43.62	1.65	113.3	3,198	529	20.19	121.99	0.52	145.8
June	346,608	18,528	2.29	42.89	1.64	100.1	2,867	477	21.11	126.96	0.51	141.6
July	346,695	18,879	2.24	41.19	1.53	90.0	2,327	391	21.59	128.64	0.50	96.7
August	366,331	19,740	2.22	41.23	1.63	96.0	2,265	382	W	W	0.49	79.5
Sept	342,392	18,355	2.21	41.35	1.70	101.3	3,161	526	19.20	115.97	0.50	156.6
October	345,463	18,416	2.18	40.98	1.57	115.9	5,762	961	17.58	105.43	0.44	279.8
November	338,083	18,186	2.19	40.72	1.58	101.8	10,107	1,695	15.62	93.26	0.38	374.5
December	368,141	19,847	2.20	40.90	1.54	112.9	5,366	904	15.41	91.46	0.53	201.5
Year 2015												
January	343,021	18,177	2.21	41.66	1.54	92.8	4,217	703	15.12	90.54	0.49	57.2
February	279,974	14,887	2.24	42.12	1.59	81.6	11,144	1,839	13.15	79.88	0.51	36.9
March	272,637	14,193	2.23	42.80	1.58	94.2	3,984	672	13.53	80.54	0.49	119.8
April	270,997	14,215	2.12	40.48	1.64	122.9	2,298	391	12.86	75.93	0.46	125.4
May	270,576	14,133	2.14	41.00	1.76	104.6	3,782	639	13.02	77.29	0.41	138.6
June	262,292	13,988	2.16	40.52	1.76	79.4	2,101	353	13.29	79.16	0.48	95.5
July	295,075	15,969	2.10	38.81	1.64	81.6	2,125	360	12.81	75.83	0.47	69.2
August	323,784	17,230	2.12	39.81	1.66	90.6	3,367	575	12.56	75.45	0.48	134.0
Sept	319,898	17,245	2.05	38.10	1.66	100.2	6,831	1,129	9.45	57.02	0.47	232.0
October	300,888	16,121	1.98	37.04	1.60	115.3	6,918	1,128	8.69	53.34	0.41	305.3
November	270,113	14,513	1.97	36.65	1.57	112.7	5,354	881	9.09	55.30	0.45	223.5
December	258,807	13,769	1.96	36.87	1.63	117.9	2,381	406	9.60	56.21	0.45	93.9
Year 2016												
January	248,356	13,412	1.94	35.88	1.71	84.5	2,394	419	7.90	45.22	0.42	61.6
February	225,570	11,969	1.92	36.22	1.91	96.6	1,824	305	6.90	41.34	0.47	43.6
March	178,170	9,404	2.04	38.68	1.88	114.3	1,456	251	7.45	43.26	0.47	68.4
April	165,868	8,585	1.99	38.44	2.00	85.9	1,446	248	W	W	0.50	74.3
May	190,787	9,867	2.11	40.71	2.12	90.0	2,293	390	11.84	69.81	0.48	94.2
Year to Date												
2014	1,790,236	94,648	2.29	43.44	1.62	97.7	39,919	6,645	21.79	131.14	0.45	73.4
2015	1,437,204	75,604	2.19	41.62	1.62	97.0	25,426	4,243	13.47	80.89	0.49	56.3
2016	1,008,751	53,238	1.99	37.76	1.91	92.7	9,413	1,612	8.63	50.46	0.47	64.6
Rolling 12 Months Ending in May												
2015	3,890,917	207,556	2.21	41.43	1.61	100.0	57,280	9,578	W	W	0.47	92.6
2016	3,039,608	162,074	2.03	38.11	1.73	95.7	38,491	6,444	W	W	0.46	117.2

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W = Withheld to avoid disclosure of individual company data.

Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

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- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2006 - May 2016 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2006	85,924	3,031	1.07	30.34	5.13	87.1	3,742,865	3,647,102	6.66	6.84	97.4	3.82
2007	56,580	1,994	1.02	28.95	4.88	69.3	4,097,825	3,990,546	6.92	7.11	97.2	4.06
2008	79,122	2,788	1.47	41.85	4.63	98.8	4,061,830	3,956,155	8.93	9.17	100.5	5.07
2009	49,619	1,732	1.31	37.63	3.87	93.6	4,087,573	3,987,721	4.30	4.41	100.7	3.18
2010	30,079	1,050	1.74	49.80	3.84	72.3	4,212,611	4,119,103	4.94	5.05	100.6	3.57
2011	33,643	1,175	2.54	72.85	4.55	84.6	4,252,040	4,158,617	4.62	4.72	100.8	3.52
2012	23,024	801	0.82	23.98	5.49	92.1	4,810,553	4,696,637	3.17	3.25	93.8	2.74
2013	16,150	575	W	W	5.39	65.6	4,025,263	3,917,898	4.25	4.36	92.8	W
2014	13,781	488	2.48	70.31	5.33	70.9	4,054,540	3,934,672	4.90	5.05	92.7	W
2015	14,550	524	2.45	68.22	5.26	67.0	4,777,264	4,617,157	2.93	3.03	93.7	W
Year 2014												
January	922	33	W	W	5.35	52.4	320,157	311,751	8.58	8.81	92.3	W
February	1,039	38	0.00	0.00	5.27	60.8	267,558	260,190	8.33	8.57	91.3	5.10
March	1,127	41	W	W	5.47	62.5	271,937	264,409	6.38	6.56	91.6	W
April	1,047	37	W	W	5.53	57.9	264,781	257,569	4.83	4.96	92.5	W
May	1,419	50	W	W	5.35	88.8	305,484	296,701	4.51	4.65	91.8	W
June	1,349	47	W	W	5.24	102.9	352,539	342,158	4.45	4.58	91.9	W
July	1,124	39	W	W	5.55	67.8	432,673	419,753	3.98	4.10	93.3	W
August	1,401	49	W	W	5.39	83.2	455,652	441,523	3.71	3.83	93.7	W
Sept	946	33	W	W	5.29	47.3	400,187	387,887	3.72	3.84	93.6	W
October	821	29	W	W	5.26	91.2	363,367	352,206	3.58	3.69	92.8	W
November	1,066	36	W	W	5.29	87.9	298,147	289,008	4.27	4.41	92.9	W
December	1,520	53	W	W	5.10	76.9	322,057	311,517	4.04	4.18	93.1	W
Year 2015												
January	1,427	52	W	W	5.10	77.4	357,604	346,044	4.05	4.18	93.3	W
February	562	20	W	W	4.53	30.2	313,724	303,386	5.17	5.34	93.8	W
March	956	34	W	W	4.81	48.7	350,620	339,122	3.36	3.48	93.5	W
April	1,501	54	W	W	4.95	79.5	329,881	318,305	2.65	2.75	93.9	W
May	1,348	48	W	W	5.17	69.2	366,927	354,389	2.75	2.84	93.3	W
June	1,237	44	W	W	5.22	68.9	433,601	418,650	2.69	2.78	93.9	W
July	1,119	40	W	W	5.30	58.6	526,867	509,889	2.71	2.80	94.2	W
August	1,289	45	W	W	5.62	67.3	519,586	502,592	2.72	2.81	94.0	W
Sept	432	16	W	W	5.44	22.3	452,689	437,288	2.69	2.79	93.8	W
October	1,295	47	W	W	5.38	71.5	399,445	386,113	2.55	2.63	93.3	W
November	1,643	59	W	W	5.35	82.7	358,246	346,015	2.31	2.39	93.3	W
December	1,742	65	W	W	5.70	178.7	368,074	355,362	2.20	2.28	93.4	W
Year 2016												
January	1,304	49	W	W	5.70	184.5	368,054	355,169	2.77	2.87	91.9	W
February	1,313	47	W	W	5.44	97.1	324,321	313,533	2.43	2.51	92.6	W
March	1,337	48	W	W	5.37	65.2	347,458	336,175	1.89	1.95	93.6	W
April	1,203	44	W	W	5.30	88.4	343,594	332,291	2.07	2.14	93.1	W
May	505	18	W	W	5.28	30.6	387,399	375,481	2.04	2.11	94.0	W
Year to Date												
2014	5,554	199	2.48	69.78	5.39	63.9	1,429,918	1,390,620	6.59	6.77	91.9	W
2015	5,794	207	2.39	66.79	4.97	61.2	1,718,756	1,661,246	3.57	3.69	93.5	W
2016	5,661	206	2.50	68.69	5.44	80.2	1,770,826	1,712,650	2.24	2.32	93.0	W
Rolling 12 Months Ending in May												
2015	14,021	496	W	W	5.16	69.3	4,343,378	4,205,298	3.79	3.92	93.3	W
2016	14,418	523	W	W	5.44	74.7	4,829,333	4,668,561	2.45	2.54	93.5	W

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Notes:

Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:

PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

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- See the Technical Notes for fuel conversion factors.

- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2006 - May 2016

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2006	12,207	518	2.63	61.95	2.51	27.5	798	137	13.50	78.70	0.17	15.5
2007	12,419	531	2.67	62.46	2.58	27.6	249	43	14.04	81.93	0.17	6.2
2008	43,997	2,009	2.65	58.12	1.73	99.4	3,800	633	17.84	107.10	0.37	102.0
2009	41,182	1,876	2.90	63.68	1.67	104.3	3,517	583	10.82	65.26	0.45	122.1
2010	37,778	1,747	2.82	61.06	1.77	101.6	2,395	400	15.24	91.25	0.38	106.3
2011	35,892	1,686	2.92	62.24	1.78	101.1	1,959	325	19.67	118.66	0.55	108.0
2012	4,427	192	3.41	78.71	2.75	13.2	247	43	W	W	0.00	11.0
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	W	W	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	W	W	2.55	12.6	0	0	--	--	--	0.0
Year 2014												
January	400	18	W	W	3.06	13.3	0	0	--	--	--	0.0
February	407	18	W	W	2.91	13.7	0	0	--	--	--	0.0
March	526	24	2.98	66.22	2.39	20.1	0	0	--	--	--	0.0
April	640	30	2.70	58.40	1.24	36.2	0	0	--	--	--	0.0
May	475	21	W	W	2.54	29.1	0	0	--	--	--	0.0
June	116	5	W	W	2.88	6.3	0	0	--	--	--	0.0
July	261	11	W	W	2.52	13.2	0	0	--	--	--	0.0
August	159	7	W	W	2.96	9.4	0	0	--	--	--	0.0
Sept	306	13	W	W	2.56	21.1	0	0	--	--	--	0.0
October	313	14	W	W	2.72	23.9	0	0	--	--	--	0.0
November	229	10	W	W	3.00	12.3	0	0	--	--	--	0.0
December	264	12	W	W	2.96	13.0	0	0	--	--	--	0.0
Year 2015												
January	309	14	W	W	2.65	14.5	0	0	--	--	--	0.0
February	479	23	2.14	44.32	1.71	25.3	0	0	--	--	--	0.0
March	177	8	W	W	2.93	8.9	0	0	--	--	--	0.0
April	298	13	W	W	2.72	20.3	0	0	--	--	--	0.0
May	102	5	W	W	2.90	7.3	0	0	--	--	--	0.0
June	213	9	W	W	2.30	14.4	0	0	--	--	--	0.0
July	124	5	W	W	2.93	7.9	0	0	--	--	--	0.0
August	187	8	W	W	2.46	12.2	0	0	--	--	--	0.0
Sept	49	2	W	W	3.01	3.7	0	0	--	--	--	0.0
October	130	6	W	W	3.08	9.3	0	0	--	--	--	0.0
November	182	8	W	W	3.00	11.5	0	0	--	--	--	0.0
December	188	8	W	W	2.86	10.8	0	0	--	--	--	0.0
Year 2016												
January	139	6	W	W	2.87	7.8	0	0	--	--	--	0.0
February	124	5	W	W	2.84	6.7	0	0	--	--	--	0.0
March	163	7	W	W	3.03	9.3	0	0	--	--	--	0.0
April	9	0	W	W	2.98	0.8	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Year to Date												
2014	2,448	110	3.07	68.63	2.31	20.5	0	0	--	--	--	0.0
2015	1,366	62	2.70	59.16	2.39	15.5	0	0	--	--	--	0.0
2016	434	19	W	W	2.92	5.8	0	0	--	--	--	0.0
Rolling 12 Months Ending in May												
2015	3,014	134	W	W	2.58	14.4	0	0	--	--	--	0.0
2016	1,508	66	W	W	2.80	8.3	0	0	--	--	--	0.0

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Notes:

Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:

COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.

PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

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- See the Technical Notes for fuel conversion factors.

- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2006 - May 2016 (continued)

	Petroleum Coke							Natural Gas					All Fossil Fuels
	Receipts		Average Cost					Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption		(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals													
2006	0	0	--	--	--	0.0		21,369	20,819	8.33	8.55	30.7	6.42
2007	0	0	--	--	--	0.0		23,502	22,955	7.99	8.18	32.8	6.20
2008	370	14	2.14	58.36	5.53	135.3		71,670	69,877	9.01	9.24	105.5	6.94
2009	252	9	1.65	46.54	5.11	102.8		81,134	79,308	5.18	5.30	105.0	4.58
2010	410	15	2.19	60.59	5.67	122.5		92,055	90,130	5.39	5.51	105.1	4.83
2011	268	9	W	W	5.46	147.4		95,287	93,306	5.20	5.31	107.2	W
2012	0	0	--	--	--	0.0		18,315	18,008	5.88	5.98	16.2	W
2013	0	0	--	--	--	0.0		5,497	5,450	W	W	4.6	W
2014	0	0	--	--	--	0.0		5,849	5,795	W	W	4.9	W
2015	0	0	--	--	--	0.0		6,499	6,371	W	W	5.0	W
Year 2014													
January	0	0	--	--	--	0.0		423	418	W	W	3.1	W
February	0	0	--	--	--	0.0		314	310	W	W	3.6	W
March	0	0	--	--	--	0.0		359	355	W	W	4.2	W
April	0	0	--	--	--	0.0		439	435	W	W	5.4	W
May	0	0	--	--	--	0.0		491	486	W	W	5.4	W
June	0	0	--	--	--	0.0		440	437	W	W	4.6	W
July	0	0	--	--	--	0.0		476	472	W	W	4.4	W
August	0	0	--	--	--	0.0		625	619	W	W	5.4	W
Sept	0	0	--	--	--	0.0		555	551	W	W	5.4	W
October	0	0	--	--	--	0.0		580	575	W	W	5.9	W
November	0	0	--	--	--	0.0		476	472	W	W	5.1	W
December	0	0	--	--	--	0.0		672	666	W	W	6.7	W
Year 2015													
January	0	0	--	--	--	0.0		552	545	W	W	5.0	W
February	0	0	--	--	--	0.0		378	372	W	W	3.8	W
March	0	0	--	--	--	0.0		438	432	W	W	4.0	W
April	0	0	--	--	--	0.0		420	413	W	W	4.5	W
May	0	0	--	--	--	0.0		494	488	W	W	4.7	W
June	0	0	--	--	--	0.0		522	513	W	W	5.0	W
July	0	0	--	--	--	0.0		540	528	W	W	4.8	W
August	0	0	--	--	--	0.0		694	680	W	W	6.0	W
Sept	0	0	--	--	--	0.0		632	620	W	W	5.7	W
October	0	0	--	--	--	0.0		530	523	W	W	5.1	W
November	0	0	--	--	--	0.0		775	749	W	W	7.0	W
December	0	0	--	--	--	0.0		524	507	W	W	4.6	W
Year 2016													
January	0	0	--	--	--	0.0		1,241	1,203	W	W	10.5	W
February	0	0	--	--	--	0.0		488	477	W	W	4.6	W
March	0	0	--	--	--	0.0		620	610	W	W	5.7	W
April	0	0	--	--	--	0.0		578	567	W	W	5.5	W
May	0	0	--	--	--	0.0		599	587	W	W	5.8	W
Year to Date													
2014	0	0	--	--	--	0.0		2,025	2,004	W	W	4.2	W
2015	0	0	--	--	--	0.0		2,283	2,251	W	W	4.4	W
2016	0	0	--	--	--	0.0		3,526	3,445	W	W	6.5	W
Rolling 12 Months Ending in May													
2015	0	0	--	--	--	0.0		6,107	6,042	W	W	5.0	W
2016	0	0	--	--	--	0.0		7,742	7,564	W	W	5.9	W

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Notes:

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PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

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- See the Technical Notes for fuel conversion factors.

- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2006 - May 2016

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2006	320,640	15,208	2.03	42.76	1.47	60.2	19,514	3,214	7.57	45.95	1.30	21.2
2007	303,091	13,540	2.20	49.16	1.36	60.1	33,637	5,514	8.53	52.06	1.33	38.8
2008	493,724	22,044	2.72	60.96	1.28	100.7	48,822	7,958	12.50	76.69	1.01	109.0
2009	431,686	19,661	2.81	61.68	1.22	99.5	55,899	9,232	9.83	59.52	0.83	112.8
2010	468,991	21,492	2.75	60.08	1.26	87.2	33,276	5,554	13.21	79.15	0.93	125.6
2011	476,108	22,204	2.93	62.86	1.33	99.5	28,939	4,878	17.67	104.83	1.08	144.8
2012	285,172	13,206	3.02	65.24	1.33	65.8	6,739	1,095	W	W	1.52	40.8
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	W	W	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	187,621	8,263	W	W	1.57	45.8	4,356	713	13.15	80.30	1.75	30.1
Year 2014												
January	23,384	1,093	W	W	1.29	61.0	385	62	18.67	115.30	1.30	15.0
February	21,991	1,020	W	W	1.33	62.5	332	53	20.18	125.46	1.04	19.1
March	25,143	1,161	2.92	63.25	1.41	67.2	135	22	20.74	127.74	1.16	9.3
April	22,469	1,042	3.09	66.66	1.31	70.8	142	23	17.86	110.18	1.60	14.8
May	22,090	1,028	W	W	1.27	66.3	144	23	17.67	109.00	1.70	13.6
June	21,987	1,014	W	W	1.40	65.9	197	32	18.15	111.64	1.79	19.5
July	24,237	1,122	W	W	1.29	70.6	149	24	16.89	103.81	1.54	16.2
August	25,258	1,165	W	W	1.35	73.2	117	19	W	W	1.59	14.2
Sept	23,305	1,073	W	W	1.28	71.5	140	23	17.75	108.43	1.86	14.5
October	23,967	1,110	W	W	1.35	74.9	150	25	16.21	98.83	1.56	14.8
November	23,701	1,098	W	W	1.37	70.7	169	28	17.46	105.26	1.42	15.1
December	24,334	1,125	W	W	1.30	68.4	230	38	14.15	85.81	1.33	22.4
Year 2015												
January	17,776	773	W	W	1.59	46.2	159	26	12.53	76.07	2.04	9.7
February	13,311	585	2.87	65.23	1.67	39.2	405	67	16.55	99.49	1.65	18.9
March	17,748	778	W	W	1.48	49.1	1,607	262	W	W	1.99	124.2
April	14,725	649	W	W	1.67	46.5	247	41	13.17	78.37	1.00	24.0
May	15,203	676	W	W	1.46	46.8	59	10	14.16	86.77	1.50	5.1
June	15,221	670	W	W	1.58	46.7	195	31	12.73	79.17	1.58	17.5
July	17,508	778	W	W	1.54	49.8	350	57	12.95	79.16	1.84	35.1
August	15,865	703	W	W	1.48	45.1	127	21	13.09	79.74	1.66	14.2
Sept	15,532	686	W	W	1.39	46.4	487	79	12.03	74.16	1.89	43.5
October	14,220	624	W	W	1.69	45.5	330	55	12.73	76.79	1.28	36.1
November	15,757	686	W	W	1.76	45.6	170	28	11.56	70.68	1.41	15.1
December	14,754	654	W	W	1.57	43.1	220	36	11.82	72.72	1.56	21.6
Year 2016												
January	14,296	638	W	W	1.51	41.5	142	23	10.87	67.07	1.55	11.6
February	12,538	566	W	W	1.62	39.4	274	45	8.45	51.85	1.10	25.8
March	14,648	658	W	W	1.42	47.5	170	28	8.30	51.02	1.13	24.3
April	12,469	554	W	W	1.59	51.1	177	29	W	W	1.35	23.2
May	12,646	573	2.76	60.99	1.52	48.5	84	14	11.02	66.30	1.65	7.7
Year to Date												
2014	115,077	5,344	2.93	63.14	1.33	65.4	1,138	184	19.13	118.30	1.30	14.6
2015	78,763	3,461	2.85	64.87	1.57	45.6	2,476	407	13.72	83.57	1.82	33.9
2016	66,598	2,989	W	W	1.53	45.1	848	139	9.20	56.21	1.27	17.5
Rolling 12 Months Ending in May												
2015	245,553	11,167	W	W	1.41	60.4	3,628	595	W	W	1.74	25.6
2016	175,455	7,790	W	W	1.55	45.7	2,727	446	W	W	1.53	22.7

Displayed values of zero may represent small values that round to zero.

NM = Not meaningful due to large relative standard error or excessive percentage change.

W = Withheld to avoid disclosure of individual company data.

Notes:

Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:

COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.

PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary.

- See Glossary for definitions.

- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.

- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

- See the Technical Notes for fuel conversion factors.

- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2006 - May 2016 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2006	17,875	646	1.63	45.05	5.43	42.7	869,157	844,211	7.02	7.22	75.7	5.64
2007	19,700	698	1.96	55.42	5.52	43.6	896,803	871,178	6.97	7.18	82.9	5.78
2008	39,246	1,396	3.34	93.84	4.92	117.9	1,099,613	1,068,372	8.95	9.22	111.9	7.10
2009	38,924	1,381	1.80	50.82	4.51	114.2	1,117,489	1,088,880	4.27	4.38	110.0	4.02
2010	35,866	1,269	2.46	69.38	4.90	100.5	1,166,768	1,135,917	4.64	4.77	110.4	4.24
2011	37,981	1,351	W	W	5.03	108.3	1,331,977	1,296,628	4.28	4.40	122.0	W
2012	23,861	858	2.62	72.96	5.86	42.2	834,245	813,288	2.97	3.05	70.8	W
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	W	W	5.83	23.2	742,347	718,360	W	W	62.7	W
2015	5,447	196	W	W	5.94	12.9	732,593	708,716	W	W	60.6	W
Year 2014												
January	398	15	W	W	5.87	11.7	66,078	64,072	W	W	60.7	W
February	339	13	W	W	5.95	11.2	59,291	57,453	W	W	64.6	W
March	834	31	W	W	5.76	24.3	65,433	63,434	W	W	67.2	W
April	755	28	W	W	5.88	19.7	58,439	56,714	W	W	63.4	W
May	408	15	W	W	5.78	11.7	60,012	58,094	W	W	63.1	W
June	990	36	W	W	5.66	25.6	60,327	58,411	W	W	64.0	W
July	794	29	W	W	5.79	20.2	64,393	62,325	W	W	62.9	W
August	912	34	W	W	5.80	25.1	64,667	62,493	W	W	62.0	W
Sept	997	36	W	W	5.92	27.6	59,277	57,273	W	W	60.5	W
October	950	34	W	W	5.92	33.0	58,228	56,273	W	W	59.5	W
November	1,071	40	W	W	5.83	33.3	61,753	59,657	W	W	63.3	W
December	1,286	47	W	W	5.86	36.1	64,449	62,162	W	W	62.3	W
Year 2015												
January	788	29	W	W	5.74	18.1	60,633	58,625	W	W	57.4	W
February	481	17	W	W	6.17	11.2	57,569	55,731	W	W	61.7	W
March	601	21	W	W	5.99	13.5	61,124	59,136	W	W	61.2	W
April	712	25	W	W	6.18	18.1	57,402	55,568	W	W	61.4	W
May	410	14	W	W	6.14	12.8	59,979	57,979	W	W	61.4	W
June	659	24	W	W	5.64	19.6	61,171	58,979	W	W	61.3	W
July	422	16	W	W	5.68	12.8	64,482	62,227	W	W	61.9	W
August	251	9	W	W	6.00	7.5	65,392	63,289	W	W	61.5	W
Sept	386	14	W	W	6.21	11.2	61,022	59,033	W	W	61.6	W
October	0	0	--	--	--	0.0	54,884	53,173	W	W	56.3	W
November	153	5	W	W	6.30	4.5	62,502	60,567	W	W	60.7	W
December	584	22	W	W	5.78	22.6	66,433	64,409	W	W	60.5	W
Year 2016												
January	400	15	W	W	5.94	15.0	62,039	60,035	W	W	57.9	W
February	122	4	W	W	6.10	4.1	55,223	53,448	W	W	55.9	W
March	574	21	W	W	5.88	17.7	60,786	59,017	W	W	59.0	W
April	669	25	W	W	5.81	27.0	60,724	58,914	W	W	60.2	W
May	206	8	W	W	5.64	8.5	60,427	58,714	W	W	59.7	W
Year to Date												
2014	2,735	102	W	W	5.83	15.9	309,254	299,767	W	W	63.7	W
2015	2,993	107	W	W	6.02	14.8	296,708	287,040	W	W	60.6	W
2016	1,970	73	W	W	5.86	14.3	299,200	290,128	W	W	58.6	W
Rolling 12 Months Ending in May												
2015	9,994	363	W	W	5.88	22.3	729,801	705,633	W	W	61.4	W
2016	4,424	162	W	W	5.85	12.4	735,085	711,804	W	W	59.7	W

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W = Withheld to avoid disclosure of individual company data.

Notes:

Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:

PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

- Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary.

- See Glossary for definitions.

- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.

- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

- See the Technical Notes for fuel conversion factors.

- Totals may not equal the sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, May 2016 and 2015
(Thousand Tons)

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	28	187	-85.0%	22	114	5	73	0	0	1	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	6	5	14.0%	0	0	5	4	0	0	1	1
Massachusetts	0	68	-100.0%	0	0	0	68	0	0	0	0
New Hampshire	22	114	-80.0%	22	114	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,486	2,616	-43.0%	0	0	1,446	2,582	0	0	41	34
New Jersey	50	54	-6.5%	0	0	50	54	0	0	0	0
New York	33	79	-59.0%	0	0	0	55	0	0	33	24
Pennsylvania	1,404	2,483	-43.0%	0	0	1,395	2,474	0	0	8	9
East North Central	10,334	13,807	-25.0%	6,496	8,842	3,622	4,748	0	1	216	216
Illinois	2,693	4,179	-36.0%	767	718	1,767	3,295	0	0	160	166
Indiana	2,099	2,943	-29.0%	1,979	2,703	120	239	0	0	0	0
Michigan	1,990	2,863	-30.0%	1,956	2,848	34	13	0	1	0	1
Ohio	2,280	2,188	4.2%	561	966	1,701	1,201	0	0	18	21
Wisconsin	1,272	1,634	-22.0%	1,234	1,605	0	0	0	0	38	29
West North Central	7,746	10,821	-28.0%	7,647	10,703	0	0	0	4	98	114
Iowa	1,019	1,833	-44.0%	921	1,719	0	0	0	0	98	114
Kansas	1,081	1,565	-31.0%	1,081	1,565	0	0	0	0	0	0
Minnesota	699	1,349	-48.0%	699	1,349	0	0	0	0	0	0
Missouri	2,465	3,091	-20.0%	2,465	3,087	0	0	0	4	0	0
Nebraska	892	1,015	-12.0%	892	1,015	0	0	0	0	0	0
North Dakota	1,504	1,967	-24.0%	1,504	1,967	0	0	0	0	0	0
South Dakota	85	0	--	85	0	0	0	0	0	0	0
South Atlantic	7,763	9,949	-22.0%	6,592	8,789	1,106	1,047	0	0	65	113
Delaware	24	23	2.1%	0	0	24	23	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,204	2,011	-40.0%	1,168	1,934	37	77	0	0	0	0
Georgia	1,518	1,768	-14.0%	1,500	1,740	0	0	0	0	18	28
Maryland	524	503	4.3%	0	0	506	483	0	0	18	20
North Carolina	692	1,143	-39.0%	692	1,143	0	0	0	0	0	0
South Carolina	666	1,089	-39.0%	666	1,072	0	0	0	0	0	17
Virginia	565	671	-16.0%	547	589	0	56	0	0	18	26
West Virginia	2,569	2,741	-6.3%	2,019	2,310	540	408	0	0	10	23
East South Central	4,679	6,236	-25.0%	4,361	5,952	214	170	0	0	104	115
Alabama	1,207	1,667	-28.0%	1,207	1,667	0	0	0	0	0	0
Kentucky	2,788	3,476	-20.0%	2,788	3,476	0	0	0	0	0	0
Mississippi	249	234	6.7%	36	64	214	170	0	0	0	0
Tennessee	434	860	-50.0%	330	745	0	0	0	0	104	115
West South Central	6,012	9,687	-38.0%	2,930	5,067	3,079	4,612	0	0	2	8
Arkansas	657	980	-33.0%	539	823	115	148	0	0	2	8
Louisiana	594	860	-31.0%	430	484	164	376	0	0	0	0
Oklahoma	487	1,294	-62.0%	412	1,220	75	74	0	0	0	0
Texas	4,274	6,553	-35.0%	1,550	2,539	2,725	4,014	0	0	0	0
Mountain	5,717	8,234	-31.0%	5,379	7,558	335	666	0	0	2	10
Arizona	1,128	1,792	-37.0%	1,128	1,792	0	0	0	0	0	0
Colorado	1,065	1,615	-34.0%	1,065	1,615	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	291	620	-53.0%	0	0	291	620	0	0	0	0
Nevada	44	46	-3.5%	0	0	44	46	0	0	0	0
New Mexico	724	1,061	-32.0%	724	1,061	0	0	0	0	0	0
Utah	949	1,329	-29.0%	946	1,318	0	0	0	0	2	10
Wyoming	1,517	1,772	-14.0%	1,517	1,772	0	0	0	0	0	0
Pacific Contiguous	45	255	-82.0%	0	14	1	175	0	0	44	65
California	44	65	-33.0%	0	0	0	0	0	0	44	65
Oregon	0	14	-100.0%	0	14	0	0	0	0	0	0
Washington	1	175	-99.0%	0	0	1	175	0	0	0	0
Pacific Noncontiguous	73	59	23.0%	13	0	59	59	0	0	0	0
Alaska	13	0	--	13	0	0	0	0	0	0	0
Hawaii	59	59	0.1%	0	0	59	59	0	0	0	0
U.S. Total	43,883	61,852	-29.0%	33,443	47,039	9,867	14,133	0	5	573	676

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NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, (Year-to-Date) May 2016 and 2015
(Thousand Tons)

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	621	1,208	-49.0%	32	307	582	881	0	0	6	20
Connecticut	85	251	-66.0%	0	0	85	251	0	0	0	0
Maine	37	63	-41.0%	0	0	31	43	0	0	6	20
Massachusetts	466	587	-21.0%	0	0	466	587	0	0	0	0
New Hampshire	32	307	-89.0%	32	307	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	7,368	12,208	-40.0%	0	0	7,196	12,020	0	0	172	189
New Jersey	231	441	-48.0%	0	0	231	441	0	0	0	0
New York	121	405	-70.0%	0	0	0	276	0	0	121	130
Pennsylvania	7,016	11,362	-38.0%	0	0	6,965	11,303	0	0	51	59
East North Central	51,558	71,313	-28.0%	31,833	43,276	18,683	26,893	0	12	1,041	1,132
Illinois	14,784	23,706	-38.0%	3,977	4,439	10,077	18,441	0	0	731	826
Indiana	11,818	15,638	-24.0%	10,991	14,521	827	1,116	0	0	0	0
Michigan	7,033	9,684	-27.0%	6,953	9,590	70	62	0	12	10	20
Ohio	11,759	12,917	-9.0%	3,938	5,530	7,710	7,274	0	0	112	113
Wisconsin	6,163	9,368	-34.0%	5,974	9,195	0	0	0	0	188	173
West North Central	43,376	57,799	-25.0%	42,864	57,250	0	0	19	51	493	498
Iowa	6,482	8,638	-25.0%	5,989	8,140	0	0	0	0	493	498
Kansas	4,868	7,864	-38.0%	4,868	7,864	0	0	0	0	0	0
Minnesota	4,356	7,818	-44.0%	4,356	7,804	0	0	0	14	0	0
Missouri	13,662	17,972	-24.0%	13,643	17,935	0	0	19	36	0	0
Nebraska	4,874	5,434	-10.0%	4,874	5,434	0	0	0	0	0	0
North Dakota	8,632	9,699	-11.0%	8,632	9,699	0	0	0	0	0	0
South Dakota	501	374	34.0%	501	374	0	0	0	0	0	0
South Atlantic	37,238	45,970	-19.0%	32,530	40,388	4,293	4,962	0	0	415	620
Delaware	130	152	-14.0%	0	0	130	152	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5,396	8,061	-33.0%	5,310	7,895	86	166	0	0	0	0
Georgia	6,371	8,193	-22.0%	6,315	8,084	0	0	0	0	56	109
Maryland	1,854	2,558	-28.0%	0	0	1,751	2,416	0	0	103	142
North Carolina	3,905	6,406	-39.0%	3,905	6,406	0	0	0	0	0	0
South Carolina	3,767	4,892	-23.0%	3,708	4,826	0	0	0	0	58	66
Virginia	3,291	3,059	7.6%	2,998	2,618	159	290	0	0	134	151
West Virginia	12,524	12,648	-1.0%	10,294	10,559	2,168	1,938	0	0	63	152
East South Central	24,530	31,444	-22.0%	22,884	29,482	1,086	1,337	0	0	560	624
Alabama	5,832	8,281	-30.0%	5,832	8,281	0	0	0	0	0	0
Kentucky	14,658	17,276	-15.0%	14,658	17,276	0	0	0	0	0	0
Mississippi	1,311	1,929	-32.0%	225	592	1,086	1,337	0	0	0	0
Tennessee	2,729	3,957	-31.0%	2,169	3,333	0	0	0	0	560	624
West South Central	33,620	52,304	-36.0%	16,515	28,011	17,080	24,257	0	0	25	36
Arkansas	4,660	6,188	-25.0%	3,861	4,994	773	1,157	0	0	25	36
Louisiana	2,525	4,464	-43.0%	1,872	2,416	653	2,048	0	0	0	0
Oklahoma	3,645	7,751	-53.0%	3,250	7,231	395	520	0	0	0	0
Texas	22,790	33,901	-33.0%	7,531	13,370	15,259	20,531	0	0	0	0
Mountain	32,153	42,257	-24.0%	29,000	38,605	3,117	3,591	0	0	36	60
Arizona	5,367	9,101	-41.0%	5,367	9,101	0	0	0	0	0	0
Colorado	6,044	7,950	-24.0%	6,044	7,950	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2,957	3,425	-14.0%	0	0	2,957	3,425	0	0	0	0
Nevada	365	504	-28.0%	204	338	161	166	0	0	0	0
New Mexico	3,704	4,833	-23.0%	3,704	4,833	0	0	0	0	0	0
Utah	4,918	6,341	-22.0%	4,882	6,281	0	0	0	0	36	60
Wyoming	8,798	10,102	-13.0%	8,798	10,102	0	0	0	0	0	0
Pacific Contiguous	1,314	2,017	-35.0%	235	369	839	1,367	0	0	241	281
California	241	281	-14.0%	0	0	0	0	0	0	241	281
Oregon	235	369	-36.0%	235	369	0	0	0	0	0	0
Washington	839	1,367	-39.0%	0	0	839	1,367	0	0	0	0
Pacific Noncontiguous	457	296	54.0%	95	0	361	296	0	0	0	0
Alaska	95	0	--	95	0	0	0	0	0	0	0
Hawaii	361	296	22.0%	0	0	361	296	0	0	0	0
U.S. Total	232,234	316,817	-27.0%	175,988	237,689	53,238	75,604	19	62	2,989	3,461

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Notes:
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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, May 2016 and 2015
(Thousand Barrels)

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	126	234	-46.0%	66	48	60	185	0	0	0	0
Connecticut	20	145	-86.0%	0	0	20	145	0	0	0	0
Maine	2	3	-32.0%	0	0	2	2	0	0	0	0
Massachusetts	103	38	173.0%	65	0	38	38	0	0	0	0
New Hampshire	1	48	-99.0%	1	48	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	47	295	-84.0%	0	113	47	182	0	0	1	0
New Jersey	1	2	-70.0%	0	0	1	2	0	0	0	0
New York	1	117	-99.0%	0	113	1	4	0	0	0	0
Pennsylvania	46	176	-74.0%	0	0	45	176	0	0	0	0
East North Central	90	77	17.0%	47	44	40	31	0	0	4	2
Illinois	12	8	49.0%	2	3	10	5	0	0	0	0
Indiana	14	19	-27.0%	14	19	0	0	0	0	0	0
Michigan	22	13	73.0%	22	12	0	0	0	0	0	1
Ohio	40	33	23.0%	7	6	30	26	0	0	3	1
Wisconsin	2	5	-54.0%	2	5	0	0	0	0	0	0
West North Central	41	41	0.8%	41	41	0	0	0	0	0	0
Iowa	11	7	44.0%	11	7	0	0	0	0	0	0
Kansas	6	3	104.0%	6	3	0	0	0	0	0	0
Minnesota	1	4	-73.0%	1	4	0	0	0	0	0	0
Missouri	14	21	-33.0%	14	21	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	9	5	72.0%	9	5	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	388	363	6.8%	327	292	51	64	0	0	9	7
Delaware	0	2	-88.0%	0	0	0	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	136	74	83.0%	136	74	0	0	0	0	0	0
Georgia	9	16	-44.0%	6	16	1	0	0	0	2	1
Maryland	33	12	170.0%	0	0	33	12	0	0	0	0
North Carolina	26	19	38.0%	26	19	0	0	0	0	0	0
South Carolina	17	25	-33.0%	10	20	0	0	0	0	7	5
Virginia	164	199	-18.0%	146	148	17	50	0	0	0	2
West Virginia	2	15	-84.0%	2	15	0	0	0	0	0	0
East South Central	42	53	-20.0%	42	53	0	0	0	0	0	0
Alabama	4	7	-42.0%	4	7	0	0	0	0	0	0
Kentucky	20	23	-15.0%	20	23	0	0	0	0	0	0
Mississippi	2	5	-59.0%	2	5	0	0	0	0	0	0
Tennessee	16	17	-6.3%	16	17	0	0	0	0	0	0
West South Central	23	40	-41.0%	12	30	11	10	0	0	0	0
Arkansas	10	9	3.2%	5	7	5	2	0	0	0	0
Louisiana	0	12	-100.0%	0	10	0	2	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	14	19	-26.0%	7	13	6	6	0	0	0	0
Mountain	37	35	5.5%	36	32	2	4	0	0	0	0
Arizona	19	10	95.0%	19	10	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	3	-58.0%	0	0	1	3	0	0	0	0
Nevada	0	1	-80.0%	0	1	0	1	0	0	0	0
New Mexico	8	14	-42.0%	8	14	0	0	0	0	0	0
Utah	3	0	527.0%	3	0	0	0	0	0	0	0
Wyoming	6	6	-11.0%	6	6	0	0	0	0	0	0
Pacific Contiguous	0	3	-100.0%	0	0	0	3	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	3	-100.0%	0	0	0	3	0	0	0	0
Pacific Noncontiguous	725	689	5.1%	545	529	179	161	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	725	689	5.1%	545	529	179	161	0	0	0	0
U.S. Total	1,520	1,828	-17.0%	1,116	1,180	390	639	0	0	14	10

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Petroleum Liquids includes distillate and residual fuel oils.

See the Technical Notes for fuel conversion factors.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.7.B. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) May 2016 and 2015
(Thousand Barrels)

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	158	1,183	-87.0%	70	60	86	1,091	0	0	2	32
Connecticut	25	258	-90.0%	0	0	25	258	0	0	0	0
Maine	14	482	-97.0%	0	0	12	451	0	0	2	32
Massachusetts	106	353	-70.0%	65	5	41	347	0	0	0	0
New Hampshire	5	78	-94.0%	5	55	0	23	0	0	0	0
Rhode Island	8	11	-29.0%	0	0	8	11	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	303	2,593	-88.0%	15	961	280	1,628	0	0	8	4
New Jersey	4	50	-91.0%	0	0	4	50	0	0	0	0
New York	145	1,964	-93.0%	15	961	124	999	0	0	6	4
Pennsylvania	153	579	-74.0%	0	0	151	579	0	0	2	0
East North Central	414	490	-15.0%	268	339	134	132	0	0	12	19
Illinois	59	38	56.0%	12	11	47	27	0	0	0	0
Indiana	85	128	-34.0%	85	128	0	0	0	0	0	0
Michigan	80	79	0.9%	77	75	0	0	0	0	2	4
Ohio	174	213	-18.0%	77	94	87	106	0	0	10	14
Wisconsin	16	31	-49.0%	16	30	0	0	0	0	0	1
West North Central	143	187	-24.0%	143	187	0	0	0	0	0	0
Iowa	33	26	27.0%	33	26	0	0	0	0	0	0
Kansas	16	49	-67.0%	16	49	0	0	0	0	0	0
Minnesota	8	11	-23.0%	8	11	0	0	0	0	0	0
Missouri	51	72	-30.0%	51	72	0	0	0	0	0	0
Nebraska	2	0	--	2	0	0	0	0	0	0	0
North Dakota	31	23	35.0%	31	23	0	0	0	0	0	0
South Dakota	2	6	-61.0%	2	6	0	0	0	0	0	0
South Atlantic	1,742	2,438	-29.0%	1,310	1,571	320	516	0	0	113	352
Delaware	44	57	-24.0%	0	0	44	57	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	207	170	22.0%	207	168	0	2	0	0	0	0
Georgia	145	184	-21.0%	91	84	31	75	0	0	24	25
Maryland	104	116	-10.0%	0	0	104	116	0	0	0	0
North Carolina	165	364	-55.0%	104	331	61	33	0	0	0	0
South Carolina	152	304	-50.0%	74	238	0	7	0	0	78	59
Virginia	856	1,177	-27.0%	765	687	80	222	0	0	11	268
West Virginia	68	65	3.8%	68	63	0	2	0	0	0	0
East South Central	206	267	-23.0%	192	239	10	27	0	0	4	1
Alabama	43	74	-42.0%	33	47	10	27	0	0	0	0
Kentucky	84	74	14.0%	84	74	0	0	0	0	0	0
Mississippi	14	14	1.7%	14	14	0	0	0	0	0	0
Tennessee	65	105	-38.0%	61	105	0	0	0	0	4	1
West South Central	131	185	-29.0%	106	120	25	65	0	0	0	0
Arkansas	36	46	-22.0%	29	34	7	12	0	0	0	0
Louisiana	45	74	-39.0%	43	57	2	17	0	0	0	0
Oklahoma	1	1	-1.7%	1	1	0	0	0	0	0	0
Texas	49	64	-23.0%	33	28	16	36	0	0	0	0
Mountain	154	180	-14.0%	146	170	8	10	0	0	0	0
Arizona	49	57	-14.0%	49	57	0	0	0	0	0	0
Colorado	8	5	60.0%	8	5	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	7	8	-17.0%	0	0	7	8	0	0	0	0
Nevada	7	11	-34.0%	5	8	2	2	0	0	0	0
New Mexico	45	56	-20.0%	45	56	0	0	0	0	0	0
Utah	13	18	-28.0%	13	18	0	0	0	0	0	0
Wyoming	25	25	2.7%	25	25	0	0	0	0	0	0
Pacific Contiguous	2	3	-41.0%	0	0	2	3	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2	3	-41.0%	0	0	2	3	0	0	0	0
Pacific Noncontiguous	3,609	3,913	-7.8%	2,862	3,142	747	772	0	0	0	0
Alaska	3	0	--	3	0	0	0	0	0	0	0
Hawaii	3,606	3,913	-7.9%	2,859	3,142	747	772	0	0	0	0
U.S. Total	6,863	11,439	-40.0%	5,112	6,789	1,612	4,243	0	0	139	407

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Petroleum Liquids includes distillate and residual fuel oils.
See the Technical Notes for fuel conversion factors.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.8.A. Receipts of Petroleum Coke Delivered for Electricity Generation by State, May 2016 and 2015
(Thousand Tons)

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	61	110	-45.0%	43	55	18	48	0	0	0	7
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	14	-100.0%	0	14	0	0	0	0	0	0
Michigan	40	38	3.4%	40	38	0	0	0	0	0	0
Ohio	18	48	-63.0%	0	0	18	48	0	0	0	0
Wisconsin	3	10	-67.0%	3	2	0	0	0	0	0	7
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	131	69	88.0%	123	62	0	0	0	0	8	7
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	123	62	98.0%	123	62	0	0	0	0	0	0
Georgia	8	7	5.5%	0	0	0	0	0	0	8	7
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	106	-100.0%	0	106	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	106	-100.0%	0	106	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	115	133	-13.0%	115	133	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	115	133	-13.0%	115	133	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	307	419	-27.0%	281	357	18	48	0	0	8	14

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Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) May 2016 and 2015
(Thousand Tons)

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	522	493	6.0%	298	248	206	207	0	0	18	38
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	162	104	56.0%	162	104	0	0	0	0	0	0
Michigan	127	147	-14.0%	127	135	0	13	0	0	0	0
Ohio	206	194	6.1%	0	0	206	194	0	0	0	0
Wisconsin	28	47	-41.0%	10	10	0	0	0	0	18	38
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	622	412	51.0%	568	343	0	0	0	0	54	69
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	568	343	66.0%	568	343	0	0	0	0	0	0
Georgia	54	69	-21.0%	0	0	0	0	0	0	54	69
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	47	286	-83.0%	47	286	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	47	286	-83.0%	47	286	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	595	780	-24.0%	595	780	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	595	780	-24.0%	595	780	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,787	1,971	-9.3%	1,509	1,657	206	207	0	0	73	107

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State, May 2016 and 2015
(Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	34,684	32,925	5.3%	106	275	34,568	32,572	0	0	10	79
Connecticut	9,990	8,389	19.0%	0	0	9,990	8,389	0	0	0	0
Maine	1,931	825	134.0%	0	0	1,921	745	0	0	10	79
Massachusetts	14,766	14,130	4.5%	81	275	14,685	13,855	0	0	0	0
New Hampshire	3,011	3,867	-22.0%	26	0	2,985	3,867	0	0	0	0
Rhode Island	4,986	5,716	-13.0%	0	0	4,986	5,716	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	92,723	86,750	6.9%	7,822	7,593	84,692	79,012	0	0	210	145
New Jersey	22,664	22,590	0.3%	0	0	22,664	22,590	0	0	0	0
New York	36,068	35,028	3.0%	7,822	7,593	28,185	27,370	0	0	61	65
Pennsylvania	33,991	29,132	17.0%	0	0	33,842	29,052	0	0	149	80
East North Central	64,046	45,727	40.0%	28,527	18,619	34,248	26,120	422	392	849	596
Illinois	8,413	3,829	120.0%	1,083	108	7,328	3,707	0	0	3	14
Indiana	12,850	8,198	57.0%	11,404	5,993	1,445	2,204	0	0	0	0
Michigan	22,650	11,548	96.0%	5,554	1,820	16,192	8,885	422	392	482	451
Ohio	11,053	15,196	-27.0%	2,555	3,998	8,486	11,193	0	0	12	4
Wisconsin	9,080	6,957	31.0%	7,931	6,700	797	130	0	0	352	127
West North Central	14,540	6,613	120.0%	11,495	5,289	2,878	1,226	165	96	1	2
Iowa	3,373	1,569	115.0%	3,372	1,567	0	0	0	0	1	2
Kansas	615	756	-19.0%	615	756	0	0	0	0	0	0
Minnesota	6,141	1,974	211.0%	4,692	1,561	1,448	413	0	0	0	0
Missouri	3,698	1,692	119.0%	2,103	783	1,430	813	165	96	0	0
Nebraska	159	142	11.0%	159	142	0	0	0	0	0	0
North Dakota	113	5	NM	113	5	0	0	0	0	0	0
South Dakota	441	475	-7.0%	441	475	0	0	0	0	0	0
South Atlantic	203,386	196,096	3.7%	163,179	155,931	37,087	36,731	0	0	3,120	3,434
Delaware	4,874	5,850	-17.0%	0	0	3,615	4,605	0	0	1,259	1,245
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	104,783	99,335	5.5%	92,946	93,808	11,836	5,528	0	0	0	0
Georgia	34,226	29,026	18.0%	25,044	17,150	8,375	10,542	0	0	807	1,333
Maryland	3,812	4,200	-9.2%	0	0	3,612	4,131	0	0	201	69
North Carolina	21,848	23,786	-8.1%	19,262	21,045	2,586	2,741	0	0	0	0
South Carolina	9,788	9,616	1.8%	8,476	8,712	1,183	835	0	0	129	69
Virginia	22,394	23,029	-2.8%	17,360	14,867	4,337	7,444	0	0	697	718
West Virginia	1,662	1,254	33.0%	91	349	1,543	905	0	0	28	0
East South Central	66,308	70,380	-5.8%	38,411	41,702	27,040	28,160	0	0	857	519
Alabama	30,672	30,538	0.4%	7,726	7,882	22,945	22,656	0	0	0	0
Kentucky	5,024	4,180	20.0%	4,203	3,233	821	947	0	0	0	0
Mississippi	26,347	28,642	-8.0%	23,073	24,085	3,274	4,557	0	0	0	0
Tennessee	4,265	7,020	-39.0%	3,408	6,502	0	0	0	0	857	519
West South Central	246,768	223,650	10.0%	76,137	64,066	120,134	109,210	0	0	50,497	50,374
Arkansas	12,256	7,610	61.0%	4,034	1,720	8,026	5,551	0	0	196	339
Louisiana	48,233	42,896	12.0%	26,046	25,369	4,683	2,080	0	0	17,504	15,447
Oklahoma	23,200	17,036	36.0%	14,248	11,284	8,952	5,753	0	0	0	0
Texas	163,079	156,107	4.5%	31,809	25,693	98,473	95,826	0	0	32,797	34,588
Mountain	54,696	42,162	30.0%	43,481	31,715	11,151	10,396	0	0	65	51
Arizona	20,117	13,187	53.0%	13,118	6,529	6,998	6,658	0	0	0	0
Colorado	7,348	4,739	55.0%	6,014	3,573	1,334	1,166	0	0	0	0
Idaho	1,081	1,896	-43.0%	537	1,454	544	441	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	15,509	13,937	11.0%	15,509	13,937	0	0	0	0	0	0
New Mexico	5,862	4,043	45.0%	3,709	1,928	2,153	2,116	0	0	0	0
Utah	4,777	4,340	10.0%	4,592	4,274	120	15	0	0	65	51
Wyoming	2	21	-91.0%	2	21	0	0	0	0	0	0
Pacific Contiguous	41,206	55,289	-25.0%	14,417	21,546	23,684	30,963	0	0	3,106	2,780
California	34,170	44,189	-23.0%	10,593	14,360	20,471	27,049	0	0	3,106	2,780
Oregon	3,346	6,441	-48.0%	2,083	3,310	1,263	3,132	0	0	0	0
Washington	3,691	4,659	-21.0%	1,741	3,876	1,950	782	0	0	0	0
Pacific Noncontiguous	1,149	1,239	-7.3%	1,149	1,239	0	0	0	0	0	0
Alaska	1,149	1,239	-7.3%	1,149	1,239	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	819,508	760,832	7.7%	384,725	347,975	375,481	354,389	587	488	58,714	57,979

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) May 2016 and 2015
(Million Cubic Feet)

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	139,882	126,624	10.0%	389	447	139,424	125,866	0	0	69	311
Connecticut	49,453	42,974	15.0%	0	0	49,453	42,974	0	0	0	0
Maine	8,391	7,059	19.0%	0	0	8,322	6,748	0	0	69	311
Massachusetts	53,910	44,847	20.0%	308	416	53,602	44,431	0	0	0	0
New Hampshire	10,730	16,453	-35.0%	81	31	10,650	16,422	0	0	0	0
Rhode Island	17,398	15,292	14.0%	0	0	17,398	15,292	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	421,754	395,377	6.7%	35,023	33,388	385,762	361,066	0	0	970	924
New Jersey	110,635	94,956	17.0%	0	0	110,635	94,956	0	0	0	0
New York	147,220	153,042	-3.8%	35,023	33,388	111,808	119,308	0	0	389	346
Pennsylvania	163,899	147,379	11.0%	0	0	163,319	146,802	0	0	581	578
East North Central	331,994	256,610	29.0%	142,410	107,327	182,450	144,527	2,843	1,891	4,291	2,865
Illinois	42,828	23,055	86.0%	3,828	811	38,986	22,218	0	0	14	26
Indiana	58,458	48,507	21.0%	46,428	36,741	12,029	11,766	0	0	0	0
Michigan	96,108	61,976	55.0%	24,927	12,963	65,919	45,416	2,843	1,891	2,419	1,707
Ohio	83,533	84,483	-1.1%	21,519	21,315	61,904	62,938	0	0	110	230
Wisconsin	51,067	38,589	32.0%	45,707	35,499	3,612	2,189	0	0	1,747	902
West North Central	58,932	40,675	45.0%	49,268	35,038	9,055	5,268	601	360	8	9
Iowa	10,815	7,214	50.0%	10,807	7,206	0	0	0	0	8	9
Kansas	3,401	3,304	2.9%	3,401	3,304	0	0	0	0	0	0
Minnesota	26,591	16,367	62.0%	21,839	14,246	4,751	2,054	1	67	0	0
Missouri	14,540	11,281	29.0%	9,636	7,774	4,304	3,214	600	293	0	0
Nebraska	735	689	6.7%	735	689	0	0	0	0	0	0
North Dakota	472	135	249.0%	472	135	0	0	0	0	0	0
South Dakota	2,378	1,684	41.0%	2,378	1,684	0	0	0	0	0	0
South Atlantic	916,484	836,825	9.5%	745,286	689,982	155,848	132,063	0	0	15,350	14,780
Delaware	21,186	21,831	-3.0%	0	0	15,417	15,669	0	0	5,769	6,162
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	453,656	428,384	5.9%	420,860	411,463	32,796	16,921	0	0	0	0
Georgia	151,925	135,629	12.0%	107,207	89,899	40,312	40,924	0	0	4,406	4,806
Maryland	14,964	10,055	49.0%	0	0	14,072	9,900	0	0	892	155
North Carolina	121,870	103,875	17.0%	109,038	93,041	12,832	10,835	0	0	0	0
South Carolina	43,499	41,207	5.6%	34,218	37,378	8,378	3,519	0	0	903	310
Virginia	104,963	92,864	13.0%	73,554	57,615	28,231	31,900	0	0	3,178	3,349
West Virginia	4,420	2,982	48.0%	408	586	3,809	2,395	0	0	202	0
East South Central	339,524	329,741	3.0%	213,810	197,192	122,436	129,708	0	0	3,278	2,842
Alabama	144,681	147,319	-1.8%	43,247	37,820	101,434	109,498	0	0	0	0
Kentucky	24,861	19,452	28.0%	23,172	17,982	1,689	1,470	0	0	0	0
Mississippi	138,554	133,263	4.0%	119,241	114,524	19,314	18,740	0	0	0	0
Tennessee	31,428	29,707	5.8%	28,150	26,865	0	0	0	0	3,278	2,842
West South Central	1,114,584	1,114,968	0.0%	325,583	299,442	539,926	565,107	0	0	249,075	250,418
Arkansas	43,923	49,963	-12.0%	18,763	10,889	24,043	37,204	0	0	1,116	1,870
Louisiana	223,348	197,233	13.0%	109,630	110,319	25,252	8,565	0	0	88,465	78,349
Oklahoma	98,925	93,661	5.6%	69,260	63,557	29,665	30,104	0	0	0	0
Texas	748,388	774,111	-3.3%	127,929	114,677	460,966	489,235	0	0	159,494	170,199
Mountain	247,512	197,757	25.0%	202,664	153,530	44,495	43,997	0	0	353	229
Arizona	79,981	55,607	44.0%	55,762	32,224	24,219	23,383	0	0	0	0
Colorado	36,335	27,648	31.0%	30,556	20,622	5,778	7,026	0	0	0	0
Idaho	8,113	6,175	31.0%	4,204	3,437	3,909	2,738	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	72,637	64,353	13.0%	72,637	64,353	0	0	0	0	0	0
New Mexico	28,136	25,957	8.4%	17,775	15,156	10,361	10,801	0	0	0	0
Utah	22,284	17,972	24.0%	21,703	17,692	228	50	0	0	353	229
Wyoming	28	45	-39.0%	28	45	0	0	0	0	0	0
Pacific Contiguous	254,972	282,632	-9.8%	104,985	114,326	133,251	153,645	0	0	16,735	14,662
California	199,821	233,566	-14.0%	72,848	85,124	110,238	133,781	0	0	16,735	14,662
Oregon	32,996	32,589	1.2%	13,173	13,508	19,822	19,082	0	0	0	0
Washington	22,155	16,476	34.0%	18,963	15,694	3,192	782	0	0	0	0
Pacific Noncontiguous	5,947	6,789	-12.0%	5,947	6,789	0	0	0	0	0	0
Alaska	5,947	6,789	-12.0%	5,947	6,789	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,831,586	3,587,998	6.8%	1,825,364	1,637,461	1,712,650	1,661,246	3,445	2,251	290,128	287,040

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.10.A. Average Cost of Coal Delivered for Electricity Generation by State, May 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015
New England	W	W	W	3.92	3.95	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	3.92	3.95	-0.8%	3.92	3.95	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.91	2.41	-21.0%	--	--	1.91	2.41
New Jersey	W	W	W	--	--	W	W
New York	--	W	W	--	--	--	W
Pennsylvania	W	2.36	W	--	--	W	2.36
East North Central	2.14	2.19	-2.3%	2.12	2.29	2.18	1.99
Illinois	W	1.89	W	1.90	2.01	W	1.86
Indiana	W	W	W	2.24	2.30	W	W
Michigan	W	W	W	2.18	2.43	W	W
Ohio	2.09	W	W	1.83	2.14	2.18	W
Wisconsin	2.12	2.30	-7.8%	2.12	2.30	--	--
West North Central	1.72	1.72	0.0%	1.72	1.72	--	--
Iowa	1.64	1.63	0.6%	1.64	1.63	--	--
Kansas	1.68	1.68	0.0%	1.68	1.68	--	--
Minnesota	2.07	1.98	4.5%	2.07	1.98	--	--
Missouri	1.85	1.89	-2.1%	1.85	1.89	--	--
Nebraska	1.31	1.37	-4.4%	1.31	1.37	--	--
North Dakota	1.62	1.56	3.8%	1.62	1.56	--	--
South Dakota	2.27	--	--	2.27	--	--	--
South Atlantic	2.76	2.95	-6.4%	2.78	2.99	2.61	2.64
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	2.94	2.98	W	W
Georgia	2.84	3.12	-9.0%	2.84	3.12	--	--
Maryland	2.79	2.77	0.7%	--	--	2.79	2.77
North Carolina	2.96	3.46	-14.0%	2.96	3.46	--	--
South Carolina	3.34	3.58	-6.7%	3.34	3.58	--	--
Virginia	2.87	W	W	2.87	2.96	--	W
West Virginia	W	W	W	2.39	2.41	W	W
East South Central	W	W	W	2.19	2.32	W	W
Alabama	2.48	2.37	4.6%	2.48	2.37	--	--
Kentucky	2.09	2.27	-7.9%	2.09	2.27	--	--
Mississippi	W	W	W	2.65	3.20	W	W
Tennessee	2.09	2.41	-13.0%	2.09	2.41	--	--
West South Central	1.94	2.07	-6.3%	2.15	2.18	1.71	1.94
Arkansas	W	W	W	2.05	2.28	W	W
Louisiana	W	W	W	2.94	2.98	W	W
Oklahoma	W	W	W	1.87	1.98	W	W
Texas	1.81	1.98	-8.6%	2.06	2.10	1.65	1.90
Mountain	W	W	W	1.83	1.96	W	W
Arizona	2.13	2.05	3.9%	2.13	2.05	--	--
Colorado	1.85	1.79	3.4%	1.85	1.79	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	--	W	W
New Mexico	1.68	2.40	-30.0%	1.68	2.40	--	--
Utah	1.99	1.97	1.0%	1.99	1.97	--	--
Wyoming	1.53	1.74	-12.0%	1.53	1.74	--	--
Pacific Contiguous	W	W	W	--	2.38	W	W
California	--	--	--	--	--	--	--
Oregon	--	2.38	--	--	2.38	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	2.94	--	W	W
Alaska	2.94	--	--	2.94	--	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.16	2.26	-4.4%	2.17	2.29	2.11	2.14

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Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.10.B. Average Cost of Coal Delivered for Electricity Generation by State, (Year-to-Date) May 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	3.05	3.61	-16.0%	3.93	3.87	2.99	3.51
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	3.93	3.87	1.6%	3.93	3.87	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.10	2.53	-17.0%	--	--	2.10	2.53
New Jersey	W	3.96	W	--	--	W	3.96
New York	--	3.16	--	--	--	--	3.16
Pennsylvania	W	2.46	W	--	--	W	2.46
East North Central	2.10	2.22	-5.4%	2.17	2.31	1.99	2.06
Illinois	W	1.94	W	1.96	2.02	W	1.92
Indiana	W	W	W	2.25	2.34	W	W
Michigan	W	W	W	2.26	2.49	W	W
Ohio	2.08	W	W	2.00	2.15	2.12	W
Wisconsin	2.18	2.34	-6.8%	2.18	2.34	--	--
West North Central	1.72	1.76	-2.3%	1.72	1.76	--	--
Iowa	1.61	1.65	-2.4%	1.61	1.65	--	--
Kansas	1.70	1.72	-1.2%	1.70	1.72	--	--
Minnesota	2.09	1.96	6.6%	2.09	1.96	--	--
Missouri	1.87	1.94	-3.6%	1.87	1.94	--	--
Nebraska	1.32	1.37	-3.6%	1.32	1.37	--	--
North Dakota	1.56	1.56	0.0%	1.56	1.56	--	--
South Dakota	2.26	2.17	4.1%	2.26	2.17	--	--
South Atlantic	2.76	2.98	-7.4%	2.79	3.01	2.48	2.69
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.02	3.06	W	W
Georgia	2.86	3.00	-4.7%	2.86	3.00	--	--
Maryland	2.75	2.92	-5.8%	--	--	2.75	2.92
North Carolina	3.08	3.54	-13.0%	3.08	3.54	--	--
South Carolina	3.27	3.59	-8.9%	3.27	3.59	--	--
Virginia	W	W	W	2.92	3.01	W	W
West Virginia	W	2.35	W	2.33	2.40	W	2.08
East South Central	W	W	W	2.22	2.34	W	W
Alabama	2.46	2.42	1.7%	2.46	2.42	--	--
Kentucky	2.12	2.26	-6.2%	2.12	2.26	--	--
Mississippi	W	W	W	2.69	3.22	W	W
Tennessee	2.25	2.43	-7.4%	2.25	2.43	--	--
West South Central	1.93	2.07	-6.8%	2.17	2.17	1.67	1.94
Arkansas	W	W	W	2.24	2.25	W	W
Louisiana	W	W	W	2.72	2.79	W	W
Oklahoma	W	W	W	1.92	2.00	W	W
Texas	1.78	2.01	-11.0%	2.11	2.13	1.61	1.92
Mountain	W	W	W	1.86	1.92	W	W
Arizona	2.16	2.03	6.4%	2.16	2.03	--	--
Colorado	1.88	1.80	4.4%	1.88	1.80	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	1.95	2.71	W	W
New Mexico	1.84	2.40	-23.0%	1.84	2.40	--	--
Utah	1.96	1.96	0.0%	1.96	1.96	--	--
Wyoming	1.59	1.61	-1.2%	1.59	1.61	--	--
Pacific Contiguous	W	W	W	2.32	2.43	W	W
California	--	--	--	--	--	--	--
Oregon	2.32	2.43	-4.5%	2.32	2.43	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.09	--	W	W
Alaska	3.09	--	--	3.09	--	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.13	2.25	-5.3%	2.18	2.27	1.99	2.19

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Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.11.A. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, May 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015
New England	W	W	W	9.59	10.01	W	W
Connecticut	--	W	W	--	--	--	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	9.56	--	W	W
New Hampshire	11.82	10.01	18.0%	11.82	10.01	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	11.44	12.33	-7.2%	--	9.25	11.44	14.76
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	9.25	W	W
Pennsylvania	11.41	W	W	--	--	11.41	W
East North Central	12.58	15.33	-18.0%	11.33	15.18	13.98	15.54
Illinois	12.55	W	W	11.41	15.59	12.81	W
Indiana	10.94	15.58	-30.0%	10.94	15.58	--	--
Michigan	11.53	14.89	-23.0%	11.53	14.89	--	--
Ohio	13.82	W	W	11.44	15.78	14.36	W
Wisconsin	--	13.37	--	--	13.37	--	--
West North Central	10.95	14.65	-25.0%	10.95	14.65	--	--
Iowa	11.05	14.77	-25.0%	11.05	14.77	--	--
Kansas	10.96	14.71	-25.0%	10.96	14.71	--	--
Minnesota	11.29	14.62	-23.0%	11.29	14.62	--	--
Missouri	11.15	14.90	-25.0%	11.15	14.90	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	10.49	13.56	-23.0%	10.49	13.56	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	W	13.38	W	8.92	12.89	W	15.66
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	9.45	W	W	9.45	17.57	--	W
Georgia	W	14.84	W	10.48	14.84	W	--
Maryland	9.78	W	W	--	--	9.78	W
North Carolina	10.71	14.88	-28.0%	10.71	14.88	--	--
South Carolina	11.66	16.31	-29.0%	11.66	16.31	--	--
Virginia	W	W	W	7.89	9.73	W	W
West Virginia	12.28	W	W	12.28	14.91	--	W
East South Central	11.10	14.79	-25.0%	11.10	14.79	--	--
Alabama	11.75	14.71	-20.0%	11.75	14.71	--	--
Kentucky	11.22	15.04	-25.0%	11.22	15.04	--	--
Mississippi	--	14.58	--	--	14.58	--	--
Tennessee	10.80	14.55	-26.0%	10.80	14.55	--	--
West South Central	10.88	14.64	-26.0%	9.95	14.33	11.94	15.60
Arkansas	W	W	W	10.69	14.91	W	W
Louisiana	--	W	W	--	14.51	--	W
Oklahoma	--	--	--	--	--	--	--
Texas	W	W	W	9.46	13.87	W	W
Mountain	W	W	W	11.69	17.66	W	W
Arizona	11.72	15.50	-24.0%	11.72	15.50	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	16.56	W	W
New Mexico	12.14	16.71	-27.0%	12.14	16.71	--	--
Utah	12.81	16.54	-23.0%	12.81	16.54	--	--
Wyoming	10.34	23.09	-55.0%	10.34	23.09	--	--
Pacific Contiguous	--	W	W	--	--	--	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	W	W	--	--	--	W
Pacific Noncontiguous	W	W	W	8.57	11.89	W	W
Alaska	--	--	--	--	--	--	--
Hawaii	W	W	W	8.57	11.89	W	W
U.S. Total	9.78	12.55	-22.0%	9.12	12.33	11.84	13.02

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Petroleum Liquids includes distillate and residual fuel oils.
See the Technical Notes for fuel conversion factors.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) May 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	8.74	W	W	9.60	11.42	7.88	W
Connecticut	8.59	W	W	--	--	8.59	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	14.72	W	9.59	22.01	W	14.61
New Hampshire	9.69	W	W	9.69	10.44	--	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	7.94	12.64	-37.0%	8.28	9.75	7.92	14.65
New Jersey	W	18.03	W	--	--	W	18.03
New York	W	12.26	W	8.28	9.75	W	14.76
Pennsylvania	9.46	14.02	-33.0%	--	--	9.46	14.02
East North Central	9.87	14.19	-30.0%	9.44	14.13	10.71	14.34
Illinois	W	14.56	W	9.60	14.86	W	14.43
Indiana	9.43	14.21	-34.0%	9.43	14.21	--	--
Michigan	9.40	13.46	-30.0%	9.40	13.46	--	--
Ohio	W	14.16	W	8.51	13.98	W	14.31
Wisconsin	14.84	15.63	-5.1%	14.84	15.63	--	--
West North Central	9.03	13.30	-32.0%	9.03	13.30	--	--
Iowa	9.30	13.51	-31.0%	9.30	13.51	--	--
Kansas	8.92	13.05	-32.0%	8.92	13.05	--	--
Minnesota	9.78	14.10	-31.0%	9.78	14.10	--	--
Missouri	9.37	13.39	-30.0%	9.37	13.39	--	--
Nebraska	9.96	--	--	9.96	--	--	--
North Dakota	8.13	13.18	-38.0%	8.13	13.18	--	--
South Dakota	7.54	12.44	-39.0%	7.54	12.44	--	--
South Atlantic	W	14.89	W	8.56	14.50	W	16.23
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	9.52	W	W	9.52	16.79	--	W
Georgia	8.39	17.77	-53.0%	8.63	20.49	7.68	14.11
Maryland	7.99	11.69	-32.0%	--	--	7.99	11.69
North Carolina	W	W	W	9.05	14.46	W	W
South Carolina	10.03	15.06	-33.0%	10.03	15.06	--	--
Virginia	W	14.65	W	8.01	13.09	W	19.81
West Virginia	9.87	W	W	9.87	14.70	--	W
East South Central	W	W	W	9.10	13.38	W	W
Alabama	W	W	W	8.67	13.35	W	W
Kentucky	9.49	14.23	-33.0%	9.49	14.23	--	--
Mississippi	7.97	13.33	-40.0%	7.97	13.33	--	--
Tennessee	9.02	12.81	-30.0%	9.02	12.81	--	--
West South Central	9.57	13.73	-30.0%	9.45	13.64	10.09	13.91
Arkansas	W	W	W	9.19	14.43	W	W
Louisiana	W	W	W	9.39	12.55	W	W
Oklahoma	10.77	15.98	-33.0%	10.77	15.98	--	--
Texas	W	W	W	9.72	14.82	W	W
Mountain	W	W	W	10.24	15.50	W	W
Arizona	10.57	14.44	-27.0%	10.57	14.44	--	--
Colorado	8.99	15.24	-41.0%	8.99	15.24	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	10.46	17.48	W	W
New Mexico	10.05	15.78	-36.0%	10.05	15.78	--	--
Utah	10.51	15.31	-31.0%	10.51	15.31	--	--
Wyoming	10.15	16.81	-40.0%	10.15	16.81	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	7.11	11.32	W	W
Alaska	11.55	--	--	11.55	--	--	--
Hawaii	W	W	W	7.10	11.32	W	W
U.S. Total	8.05	12.64	-36.0%	7.88	12.18	8.63	13.47

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Liquids includes distillate and residual fuel oils.
See the Technical Notes for fuel conversion factors.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.12.A. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, May 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	W	W	W	1.33	2.10	W	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.30	2.61	-50.0%	1.30	2.61	--	--
Ohio	W	W	W	--	--	W	W
Wisconsin	1.70	1.61	5.6%	1.70	1.61	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.20	2.34	-49.0%	1.20	2.34	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.20	2.34	-49.0%	1.20	2.34	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.73	--	--	1.73	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.73	--	--	1.73	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.21	1.96	-38.0%	1.21	1.96	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.21	1.96	-38.0%	1.21	1.96	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	W	W	W	1.22	1.98	W	W

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Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) May 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	W	W	W	1.12	1.43	W	W
Illinois	--	--	--	--	--	--	--
Indiana	0.96	0.92	4.3%	0.96	0.92	--	--
Michigan	1.30	W	W	1.30	1.85	--	W
Ohio	W	W	W	--	--	W	W
Wisconsin	1.71	1.58	8.2%	1.71	1.58	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.21	2.35	-49.0%	1.21	2.35	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.21	2.35	-49.0%	1.21	2.35	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.61	1.74	-7.5%	1.61	1.74	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.61	1.74	-7.5%	1.61	1.74	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.12	1.93	-42.0%	1.12	1.93	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.12	1.93	-42.0%	1.12	1.93	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.32	1.96	-33.0%	1.17	1.91	2.50	2.39

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State, May 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2016	May 2015	Percentage Change	May 2016	May 2015	May 2016	May 2015
New England	W	W	W	2.55	2.65	W	W
Connecticut	2.33	2.24	4.0%	--	--	2.33	2.24
Maine	W	W	W	--	--	W	W
Massachusetts	2.05	3.08	-33.0%	2.53	2.65	2.05	3.09
New Hampshire	W	W	W	2.62	6.95	W	W
Rhode Island	2.17	2.10	3.3%	--	--	2.17	2.10
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.85	2.33	-21.0%	1.94	2.62	1.84	2.30
New Jersey	1.87	2.24	-17.0%	--	--	1.87	2.24
New York	2.06	2.68	-23.0%	1.94	2.62	2.10	2.71
Pennsylvania	1.59	1.92	-17.0%	--	--	1.59	1.92
East North Central	2.18	2.82	-23.0%	2.29	3.03	2.08	2.67
Illinois	2.20	W	W	2.49	6.56	2.15	W
Indiana	W	W	W	2.22	2.92	W	W
Michigan	2.21	3.18	-31.0%	2.41	3.31	2.14	3.15
Ohio	1.92	2.23	-14.0%	2.07	2.61	1.88	2.10
Wisconsin	W	W	W	2.36	3.24	W	W
West North Central	W	W	W	2.30	3.89	W	W
Iowa	1.98	2.99	-34.0%	1.98	2.99	--	--
Kansas	3.34	4.05	-18.0%	3.34	4.05	--	--
Minnesota	W	W	W	2.35	4.84	W	W
Missouri	W	W	W	2.49	4.25	W	W
Nebraska	2.57	3.77	-32.0%	2.57	3.77	--	--
North Dakota	2.04	2.76	-26.0%	2.04	2.76	--	--
South Dakota	1.97	2.91	-32.0%	1.97	2.91	--	--
South Atlantic	3.09	3.85	-20.0%	3.21	3.99	2.18	3.01
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	4.29	W	3.57	4.32	W	3.04
Georgia	2.37	3.47	-32.0%	2.42	3.50	2.18	3.39
Maryland	2.37	3.13	-24.0%	--	--	2.37	3.13
North Carolina	W	W	W	3.59	3.97	W	W
South Carolina	W	W	W	2.74	3.65	W	W
Virginia	W	2.66	W	2.29	2.72	W	2.52
West Virginia	1.87	2.27	-18.0%	2.18	2.79	1.85	2.08
East South Central	2.20	2.95	-25.0%	2.22	2.91	2.16	3.02
Alabama	2.28	3.16	-28.0%	2.42	3.18	2.22	3.16
Kentucky	W	W	W	2.63	3.72	W	W
Mississippi	W	W	W	2.11	2.89	W	W
Tennessee	2.07	2.27	-8.8%	2.07	2.27	--	--
West South Central	2.12	2.96	-28.0%	2.19	3.02	2.06	2.91
Arkansas	W	W	W	2.46	3.86	W	W
Louisiana	W	W	W	2.16	2.96	W	W
Oklahoma	W	W	W	2.26	3.22	W	W
Texas	2.11	2.92	-28.0%	2.15	2.93	2.10	2.91
Mountain	2.52	3.27	-23.0%	2.52	3.29	2.46	3.15
Arizona	W	3.59	W	2.72	4.01	W	2.78
Colorado	W	W	W	2.68	3.66	W	W
Idaho	2.41	3.08	-22.0%	2.41	3.08	--	--
Montana	--	--	--	--	--	--	--
Nevada	2.45	3.08	-20.0%	2.45	3.08	--	--
New Mexico	2.34	3.14	-25.0%	2.34	3.14	--	--
Utah	W	W	W	2.16	2.64	W	W
Wyoming	11.66	3.64	220.0%	11.66	3.64	--	--
Pacific Contiguous	2.39	3.23	-26.0%	2.77	3.51	2.10	2.98
California	2.51	3.35	-25.0%	3.07	3.82	2.14	3.04
Oregon	W	W	W	1.74	2.83	W	W
Washington	W	W	W	2.24	3.18	W	W
Pacific Noncontiguous	6.40	4.83	33.0%	6.40	4.83	--	--
Alaska	6.40	4.83	33.0%	6.40	4.83	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.42	3.17	-24.0%	2.70	3.50	2.04	2.75

Displayed values of zero may represent small values that round to zero.
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W = Withheld to avoid disclosure of individual company data.

Notes:
See Glossary for definitions. Values are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report. "

Table 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) May 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2016 YTD	May 2015 YTD	Percentage Change	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	3.33	6.84	-51.0%	3.13	6.18	3.33	6.84
Connecticut	4.11	6.81	-40.0%	--	--	4.11	6.81
Maine	W	W	W	--	--	W	W
Massachusetts	2.81	7.06	-60.0%	3.15	6.35	2.80	7.07
New Hampshire	W	W	W	3.03	3.91	W	W
Rhode Island	W	5.92	W	--	--	W	5.92
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.20	4.37	-50.0%	2.77	5.88	2.14	4.21
New Jersey	2.12	4.46	-52.0%	--	--	2.12	4.46
New York	2.63	4.96	-47.0%	2.77	5.88	2.58	4.66
Pennsylvania	1.86	3.70	-50.0%	--	--	1.86	3.70
East North Central	2.21	3.16	-30.0%	2.36	3.28	2.08	3.07
Illinois	2.28	3.50	-35.0%	2.56	4.62	2.25	3.46
Indiana	W	W	W	2.38	3.21	W	W
Michigan	2.27	3.51	-35.0%	2.42	3.47	2.21	3.52
Ohio	1.86	2.62	-29.0%	1.97	2.86	1.82	2.54
Wisconsin	W	W	W	2.47	3.49	W	W
West North Central	W	W	W	2.53	3.87	W	W
Iowa	2.31	3.48	-34.0%	2.31	3.48	--	--
Kansas	3.40	4.23	-20.0%	3.40	4.23	--	--
Minnesota	W	W	W	2.67	4.29	W	W
Missouri	W	W	W	2.31	3.52	W	W
Nebraska	2.47	3.83	-36.0%	2.47	3.83	--	--
North Dakota	2.15	2.81	-23.0%	2.15	2.81	--	--
South Dakota	1.99	2.91	-32.0%	1.99	2.91	--	--
South Atlantic	3.23	4.44	-27.0%	3.35	4.58	2.32	3.37
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	4.45	W	3.66	4.48	W	3.01
Georgia	2.46	3.44	-28.0%	2.48	3.44	2.41	3.44
Maryland	2.93	5.71	-49.0%	--	--	2.93	5.71
North Carolina	W	W	W	3.52	5.70	W	W
South Carolina	W	W	W	3.02	3.83	W	W
Virginia	W	4.82	W	2.83	5.69	W	2.62
West Virginia	W	W	W	1.90	3.01	W	W
East South Central	2.43	3.16	-23.0%	2.48	3.17	2.31	3.14
Alabama	2.41	3.20	-25.0%	2.47	3.20	2.37	3.20
Kentucky	W	W	W	2.75	3.93	W	W
Mississippi	W	W	W	2.49	3.08	W	W
Tennessee	2.21	2.98	-26.0%	2.21	2.98	--	--
West South Central	2.14	2.99	-28.0%	2.23	3.12	2.07	2.90
Arkansas	W	W	W	2.34	3.66	W	W
Louisiana	W	W	W	2.21	3.07	W	W
Oklahoma	W	W	W	2.27	3.17	W	W
Texas	2.12	2.95	-28.0%	2.22	3.08	2.09	2.91
Mountain	W	W	W	2.57	3.53	W	W
Arizona	W	3.72	W	2.66	3.88	W	2.92
Colorado	W	W	W	2.83	4.24	W	W
Idaho	2.51	3.15	-20.0%	2.51	3.15	--	--
Montana	--	--	--	--	--	--	--
Nevada	2.51	3.35	-25.0%	2.51	3.35	--	--
New Mexico	2.50	3.14	-20.0%	2.50	3.14	--	--
Utah	W	W	W	2.23	3.10	W	W
Wyoming	6.59	5.24	26.0%	6.59	5.24	--	--
Pacific Contiguous	2.60	3.39	-23.0%	2.97	3.69	2.28	3.08
California	2.67	3.48	-23.0%	3.10	3.81	2.35	3.17
Oregon	W	W	W	2.10	3.04	W	W
Washington	W	W	W	3.14	3.69	W	W
Pacific Noncontiguous	6.40	5.46	17.0%	6.40	5.46	--	--
Alaska	6.40	5.46	17.0%	6.40	5.46	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.58	3.76	-31.0%	2.84	3.91	2.24	3.57

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W = Withheld to avoid disclosure of individual company data.

Notes:
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See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report. "

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, May 2016

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	28	2.06	8.1	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	6	0.79	8.3	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	22	2.39	8.0	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,288	3.06	9.7	0	--	--	0	--	--
New Jersey	50	1.65	7.7	0	--	--	0	--	--
New York	33	1.40	7.7	0	--	--	0	--	--
Pennsylvania	1,205	3.17	9.9	0	--	--	0	--	--
East North Central	5,120	3.03	10.0	5,214	0.25	4.7	0	--	--
Illinois	743	3.78	20.9	1,951	0.22	4.5	0	--	--
Indiana	1,940	2.85	8.5	158	0.25	4.6	0	--	--
Michigan	139	2.08	7.5	1,852	0.29	4.8	0	--	--
Ohio	2,265	3.07	8.8	15	0.34	5.1	0	--	--
Wisconsin	33	1.50	8.5	1,239	0.24	5.0	0	--	--
West North Central	85	3.31	9.6	6,167	0.26	5.0	1,494	0.90	9.3
Iowa	33	3.40	7.5	986	0.25	4.9	0	--	--
Kansas	18	3.15	12.9	1,063	0.28	4.8	0	--	--
Minnesota	0	--	--	699	0.37	6.1	0	--	--
Missouri	34	3.30	10.0	2,431	0.22	4.6	0	--	--
Nebraska	0	--	--	892	0.28	5.5	0	--	--
North Dakota	0	--	--	11	0.37	5.1	1,494	0.90	9.3
South Dakota	0	--	--	85	0.34	5.2	0	--	--
South Atlantic	6,934	2.33	10.4	792	0.31	4.6	0	--	--
Delaware	24	2.11	7.5	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,204	2.32	8.2	0	--	--	0	--	--
Georgia	726	2.60	7.7	792	0.31	4.6	0	--	--
Maryland	524	3.06	9.0	0	--	--	0	--	--
North Carolina	692	1.53	9.8	0	--	--	0	--	--
South Carolina	666	1.50	8.9	0	--	--	0	--	--
Virginia	565	0.99	17.4	0	--	--	0	--	--
West Virginia	2,531	2.83	11.6	0	--	--	0	--	--
East South Central	3,107	2.55	9.0	1,358	0.25	5.1	214	0.48	14.5
Alabama	566	1.12	9.3	641	0.26	5.3	0	--	--
Kentucky	2,118	3.00	9.2	670	0.25	4.9	0	--	--
Mississippi	36	2.87	8.1	0	--	--	214	0.48	14.5
Tennessee	387	2.09	7.6	47	0.23	4.6	0	--	--
West South Central	68	1.77	20.8	3,003	0.27	5.1	2,941	0.92	16.4
Arkansas	2	0.69	9.3	654	0.26	5.5	0	--	--
Louisiana	19	3.26	9.9	287	0.29	5.0	288	0.47	15.5
Oklahoma	47	1.17	26.3	440	0.24	4.9	0	--	--
Texas	0	--	--	1,622	0.28	5.1	2,652	0.97	16.5
Mountain	2,062	0.61	14.1	3,655	0.48	8.2	0	--	--
Arizona	495	0.57	10.4	633	0.56	9.6	0	--	--
Colorado	196	0.46	10.4	869	0.31	5.7	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	291	0.72	10.0	0	--	--
Nevada	0	--	--	44	0.22	4.8	0	--	--
New Mexico	491	0.78	24.8	233	0.85	20.9	0	--	--
Utah	880	0.58	11.9	69	1.10	12.0	0	--	--
Wyoming	0	--	--	1,517	0.42	6.8	0	--	--
Pacific Contiguous	44	0.51	10.8	0	--	--	0	--	--
California	44	0.51	10.8	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	59	0.25	9.5	0	--	--	8	0.17	10.2
Alaska	0	--	--	0	--	--	8	0.17	10.2
Hawaii	59	0.25	9.5	0	--	--	0	--	--
U.S. Total	18,795	2.43	10.4	20,189	0.30	5.5	4,656	0.89	14.0

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilities by State, May 2016

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	22	2.39	8.0	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	22	2.39	8.0	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	2,644	2.85	8.5	3,853	0.26	4.8	0	--	--
Illinois	141	3.47	11.2	626	0.22	4.7	0	--	--
Indiana	1,821	2.80	8.4	158	0.25	4.6	0	--	--
Michigan	104	2.32	7.7	1,852	0.29	4.8	0	--	--
Ohio	561	3.02	8.3	0	--	--	0	--	--
Wisconsin	16	2.04	7.4	1,217	0.24	5.0	0	--	--
West North Central	52	3.25	11.0	6,102	0.26	5.0	1,494	0.90	9.3
Iowa	0	--	--	921	0.25	4.9	0	--	--
Kansas	18	3.15	12.9	1,063	0.28	4.8	0	--	--
Minnesota	0	--	--	699	0.37	6.1	0	--	--
Missouri	34	3.30	10.0	2,431	0.22	4.6	0	--	--
Nebraska	0	--	--	892	0.28	5.5	0	--	--
North Dakota	0	--	--	11	0.37	5.1	1,494	0.90	9.3
South Dakota	0	--	--	85	0.34	5.2	0	--	--
South Atlantic	5,801	2.18	10.1	792	0.31	4.6	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,168	2.37	8.1	0	--	--	0	--	--
Georgia	708	2.63	7.5	792	0.31	4.6	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	692	1.53	9.8	0	--	--	0	--	--
South Carolina	666	1.50	8.9	0	--	--	0	--	--
Virginia	547	0.95	17.6	0	--	--	0	--	--
West Virginia	2,019	2.65	10.9	0	--	--	0	--	--
East South Central	3,003	2.61	9.1	1,358	0.25	5.1	0	--	--
Alabama	566	1.12	9.3	641	0.26	5.3	0	--	--
Kentucky	2,118	3.00	9.2	670	0.25	4.9	0	--	--
Mississippi	36	2.87	8.1	0	--	--	0	--	--
Tennessee	283	2.59	7.9	47	0.23	4.6	0	--	--
West South Central	19	3.26	9.9	2,082	0.26	5.2	829	0.93	17.8
Arkansas	0	--	--	539	0.26	5.5	0	--	--
Louisiana	19	3.26	9.9	123	0.26	5.4	288	0.47	15.5
Oklahoma	0	--	--	412	0.24	4.8	0	--	--
Texas	0	--	--	1,009	0.26	5.1	541	1.21	19.2
Mountain	2,060	0.61	14.1	3,319	0.46	8.1	0	--	--
Arizona	495	0.57	10.4	633	0.56	9.6	0	--	--
Colorado	196	0.46	10.4	869	0.31	5.7	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	491	0.78	24.8	233	0.85	20.9	0	--	--
Utah	877	0.58	11.9	69	1.10	12.0	0	--	--
Wyoming	0	--	--	1,517	0.42	6.8	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	8	0.17	10.2
Alaska	0	--	--	0	--	--	8	0.17	10.2
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	13,601	2.19	10.1	17,506	0.30	5.6	2,331	0.90	12.3

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, May 2016

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	5	0.79	8.3	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	5	0.79	8.3	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,247	3.11	9.8	0	--	--	0	--	--
New Jersey	50	1.65	7.7	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	1,196	3.17	9.9	0	--	--	0	--	--
East North Central	2,347	3.22	11.8	1,275	0.21	4.4	0	--	--
Illinois	507	3.90	27.0	1,260	0.21	4.4	0	--	--
Indiana	120	3.63	8.9	0	--	--	0	--	--
Michigan	34	1.28	6.8	0	--	--	0	--	--
Ohio	1,686	3.09	9.0	15	0.34	5.1	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	1,068	3.24	11.4	0	--	--	0	--	--
Delaware	24	2.11	7.5	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	37	0.84	10.5	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	506	3.10	8.6	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	502	3.64	14.8	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	214	0.48	14.5
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	214	0.48	14.5
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	47	1.17	26.3	921	0.30	5.1	2,111	0.91	15.8
Arkansas	0	--	--	115	0.26	5.4	0	--	--
Louisiana	0	--	--	164	0.31	4.7	0	--	--
Oklahoma	47	1.17	26.3	28	0.32	5.4	0	--	--
Texas	0	--	--	613	0.30	5.1	2,111	0.91	15.8
Mountain	0	--	--	335	0.65	9.3	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	291	0.72	10.0	0	--	--
Nevada	0	--	--	44	0.22	4.8	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	59	0.25	9.5	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	59	0.25	9.5	0	--	--	0	--	--
U.S. Total	4,773	3.14	11.3	2,531	0.30	5.3	2,325	0.88	15.7

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation:
Commercial Sector by State, May 2016

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	0	--	--	0	--	--	0	--	--
Illinois	0	--	--	0	--	--	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	0	--	--	0	--	--	0	--	--

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation:
Industrial Sector by State, May 2016

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	1	0.79	8.3	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	1	0.79	8.3	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	41	1.53	8.6	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	33	1.40	7.7	0	--	--	0	--	--
Pennsylvania	8	2.08	11.9	0	--	--	0	--	--
East North Central	129	3.22	9.3	87	0.46	5.3	0	--	--
Illinois	95	3.70	9.1	65	0.53	5.4	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	18	3.01	9.9	0	--	--	0	--	--
Wisconsin	17	0.88	9.8	22	0.25	5.2	0	--	--
West North Central	33	3.40	7.5	65	0.18	4.4	0	--	--
Iowa	33	3.40	7.5	65	0.18	4.4	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	65	1.57	15.4	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	18	1.17	14.9	0	--	--	0	--	--
Maryland	18	1.98	22.2	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	18	1.90	11.6	0	--	--	0	--	--
West Virginia	10	0.90	12.7	0	--	--	0	--	--
East South Central	104	0.85	7.0	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	104	0.85	7.0	0	--	--	0	--	--
West South Central	2	0.69	9.3	0	--	--	0	--	--
Arkansas	2	0.69	9.3	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	2	0.42	8.4	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	2	0.42	8.4	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	44	0.51	10.8	0	--	--	0	--	--
California	44	0.51	10.8	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	421	1.84	9.5	152	0.34	4.9	0	--	--

Displayed values of zero may represent small values that round to zero.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

**Table 5.1. Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2006 - May 2016 (Thousand Megawatthours)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2006	1,351,520	1,299,744	1,011,298	7,358	3,669,919
2007	1,392,241	1,336,315	1,027,832	8,173	3,764,561
2008	1,380,662	1,336,133	1,009,516	7,653	3,733,965
2009	1,364,758	1,306,853	917,416	7,768	3,596,795
2010	1,445,708	1,330,199	971,221	7,712	3,754,841
2011	1,422,801	1,328,057	991,316	7,672	3,749,846
2012	1,374,515	1,327,101	985,714	7,320	3,694,650
2013	1,394,812	1,337,079	985,352	7,625	3,724,868
2014	1,407,208	1,352,158	997,576	7,758	3,764,700
2015	1,399,884	1,358,419	958,563	7,659	3,724,525
Year 2014					
January	146,511	113,866	80,149	712	341,238
February	128,475	104,353	75,413	700	308,941
March	114,233	106,968	80,539	648	302,388
April	92,290	102,459	80,505	640	275,894
May	95,727	109,666	85,383	646	291,421
June	118,049	118,423	85,711	609	322,792
July	137,028	125,434	88,417	645	351,524
August	135,830	125,603	89,808	642	351,883
Sept	120,741	120,049	85,489	628	326,907
October	98,038	113,023	84,994	625	296,680
November	99,486	104,245	81,044	637	285,413
December	120,801	108,070	80,123	626	309,620
Year 2015					
January	137,531	110,941	77,242	670	326,384
February	123,777	105,514	74,512	702	304,505
March	116,865	107,786	77,394	682	302,727
April	89,926	103,973	78,056	623	272,578
May	94,863	109,127	80,738	611	285,339
June	119,926	119,112	83,772	612	323,422
July	145,418	128,448	85,400	650	359,916
August	144,091	128,387	85,891	627	358,996
Sept	124,992	122,116	82,342	617	330,068
October	99,076	112,761	80,915	638	293,390
November	92,383	103,942	76,378	606	273,309
December	111,033	106,312	75,923	622	293,890
Year 2016					
January	130,760	110,298	76,248	659	317,965
February	115,913	103,342	74,291	650	294,196
March	100,087	105,335	76,220	613	282,254
April	88,035	101,938	75,805	598	266,376
May	93,867	107,939	78,258	585	280,649
Year to Date					
2014	577,236	537,311	401,989	3,346	1,519,882
2015	562,964	537,341	387,942	3,287	1,491,534
2016	528,662	528,851	380,823	3,104	1,441,440
Rolling 12 Months Ending in May					
2015	1,392,936	1,352,188	983,529	7,699	3,736,352
2016	1,365,582	1,349,929	951,444	7,476	3,674,431

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions. Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data. Values for 2014 and prior years are final. Values for 2016 and 2015 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.

Sources: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report; Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

**Table 5.2. Revenue from Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2006 - May 2016 (Million Dollars)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2006	140,582	122,914	62,308	702	326,506
2007	148,295	128,903	65,712	792	343,703
2008	155,496	137,036	70,231	820	363,583
2009	157,044	132,747	62,670	828	353,289
2010	166,778	135,554	65,772	814	368,918
2011	166,714	135,927	67,606	803	371,049
2012	163,280	133,898	65,761	747	363,687
2013	169,131	137,188	67,934	805	375,058
2014	176,178	145,253	70,855	810	393,096
2015	177,367	143,893	66,088	779	388,127
Year 2014					
January	17,075	11,790	5,596	78	34,539
February	15,338	11,142	5,370	73	31,922
March	13,996	11,390	5,632	68	31,087
April	11,365	10,715	5,451	65	27,596
May	12,300	11,555	5,833	65	29,753
June	15,337	12,974	6,335	65	34,710
July	17,943	14,014	6,742	69	38,767
August	17,708	13,876	6,748	64	38,396
Sept	15,639	13,399	6,299	69	35,406
October	12,352	12,239	6,007	64	30,663
November	12,417	10,967	5,470	65	28,920
December	14,707	11,192	5,372	66	31,336
Year 2015					
January	16,638	11,387	5,127	71	33,223
February	15,209	11,181	5,146	76	31,611
March	14,427	11,335	5,271	69	31,102
April	11,366	10,735	5,153	61	27,315
May	12,288	11,390	5,418	60	29,157
June	15,511	12,878	5,947	62	34,399
July	18,886	14,155	6,355	68	39,464
August	18,637	13,993	6,294	64	38,988
Sept	16,320	13,357	5,914	64	35,655
October	12,610	12,058	5,557	64	30,288
November	11,759	10,677	5,030	59	27,524
December	13,718	10,747	4,875	61	29,402
Year 2016					
January	15,688	11,006	4,891	62	31,647
February	14,074	10,489	4,743	62	29,367
March	12,582	10,673	4,932	58	28,245
April	10,942	10,281	4,845	56	26,126
May	12,011	11,063	5,115	53	28,242
Year to Date					
2014	70,075	56,592	27,882	349	154,898
2015	69,927	56,028	26,115	338	152,408
2016	65,298	53,512	24,526	291	143,626
Rolling 12 Months Ending in May					
2015	176,029	144,689	69,088	800	390,606
2016	172,738	141,376	64,498	733	379,346

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.

Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.

Values for 2014 and prior years are final. Values for 2016 and 2015 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.

Sources: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report; Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

**Table 5.3. Average Price of Electricity to Ultimate Customers:
Total by End-Use Sector, 2006 - May 2016 (Cents per Kilowatthour)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2006	10.40	9.46	6.16	9.54	8.90
2007	10.65	9.65	6.39	9.70	9.13
2008	11.26	10.26	6.96	10.71	9.74
2009	11.51	10.16	6.83	10.66	9.82
2010	11.54	10.19	6.77	10.56	9.83
2011	11.72	10.24	6.82	10.46	9.90
2012	11.88	10.09	6.67	10.21	9.84
2013	12.13	10.26	6.89	10.55	10.07
2014	12.52	10.74	7.10	10.45	10.44
2015	12.67	10.59	6.89	10.17	10.42
Year 2014					
January	11.65	10.35	6.98	10.93	10.12
February	11.94	10.68	7.12	10.41	10.33
March	12.25	10.65	6.99	10.43	10.28
April	12.31	10.46	6.77	10.23	10.00
May	12.85	10.54	6.83	10.06	10.21
June	12.99	10.96	7.39	10.60	10.75
July	13.09	11.17	7.62	10.68	11.03
August	13.04	11.05	7.51	10.02	10.91
Sept	12.95	11.16	7.37	11.02	10.83
October	12.60	10.83	7.07	10.27	10.34
November	12.48	10.52	6.75	10.20	10.13
December	12.17	10.36	6.70	10.48	10.12
Year 2015					
January	12.10	10.26	6.64	10.62	10.18
February	12.29	10.60	6.91	10.76	10.38
March	12.34	10.52	6.81	10.18	10.27
April	12.64	10.32	6.60	9.84	10.02
May	12.95	10.44	6.71	9.89	10.22
June	12.93	10.81	7.10	10.22	10.64
July	12.99	11.02	7.44	10.46	10.96
August	12.93	10.90	7.33	10.18	10.86
Sept	13.06	10.94	7.18	10.33	10.80
October	12.73	10.69	6.87	10.00	10.32
November	12.73	10.27	6.59	9.69	10.07
December	12.36	10.11	6.42	9.80	10.00
Year 2016					
January	12.00	9.98	6.41	9.46	9.95
February	12.14	10.15	6.38	9.49	9.98
March	12.57	10.13	6.47	9.43	10.01
April	12.43	10.09	6.39	9.42	9.81
May	12.80	10.25	6.54	9.13	10.06
Year to Date					
2014	12.14	10.53	6.94	10.42	10.19
2015	12.42	10.43	6.73	10.27	10.22
2016	12.35	10.12	6.44	9.39	9.96
Rolling 12 Months Ending in May					
2015	12.64	10.70	7.02	10.38	10.45
2016	12.65	10.47	6.78	9.80	10.32

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.

Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.

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Sources: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report; Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	3,060	3,114	3,969	4,059	1,412	1,515	41	43	8,482	8,732
Connecticut	789	804	952	982	256	239	13	14	2,009	2,039
Maine	337	333	308	309	243	260	0	0	888	903
Massachusetts	1,295	1,319	1,936	1,978	572	670	26	27	3,829	3,995
New Hampshire	295	304	327	338	157	158	0	0	778	800
Rhode Island	204	212	288	290	63	69	2	2	558	574
Vermont	141	142	157	162	121	118	0	0	419	422
Middle Atlantic	8,638	9,099	12,200	12,574	5,751	5,466	288	310	26,877	27,449
New Jersey	1,969	2,108	3,097	3,223	590	626	25	24	5,681	5,982
New York	3,318	3,433	5,736	5,877	1,408	1,028	213	221	10,675	10,559
Pennsylvania	3,351	3,558	3,367	3,473	3,753	3,811	50	66	10,521	10,908
East North Central	12,323	12,531	14,722	15,061	15,525	16,239	44	42	42,613	43,874
Illinois	3,002	3,009	3,925	4,069	3,488	3,526	38	38	10,454	10,641
Indiana	2,070	2,138	1,914	1,972	3,458	3,928	2	1	7,443	8,039
Michigan	2,386	2,370	3,125	3,208	2,667	2,647	0	0	8,178	8,226
Ohio	3,369	3,534	3,900	3,958	3,960	4,153	3	3	11,232	11,647
Wisconsin	1,495	1,480	1,858	1,855	1,953	1,985	0	0	5,307	5,321
West North Central	6,376	6,424	8,052	8,061	6,978	7,269	3	3	21,409	21,756
Iowa	827	885	922	947	1,882	1,790	0	0	3,630	3,621
Kansas	853	820	1,227	1,235	905	913	0	0	2,985	2,969
Minnesota	1,459	1,449	1,869	1,857	1,600	1,644	2	2	4,930	4,952
Missouri	2,058	2,103	2,437	2,463	996	1,345	2	1	5,493	5,912
Nebraska	599	584	759	744	802	813	0	0	2,159	2,141
North Dakota	285	294	465	457	582	547	0	0	1,332	1,297
South Dakota	296	289	373	357	211	218	0	0	880	864
South Atlantic	24,925	25,771	25,489	26,213	11,882	12,681	118	117	62,414	64,783
Delaware	293	279	347	289	179	255	0	0	819	823
District of Columbia	126	127	670	725	14	68	32	31	843	950
Florida	9,724	9,815	8,126	8,099	1,442	1,440	8	8	19,301	19,363
Georgia	3,932	4,009	3,854	3,932	2,726	2,737	13	13	10,525	10,690
Maryland	1,677	1,910	2,355	2,552	322	340	52	49	4,406	4,851
North Carolina	3,691	3,765	3,816	3,946	2,307	2,534	0	1	9,814	10,245
South Carolina	2,057	2,030	1,794	1,839	2,340	2,576	0	0	6,191	6,446
Virginia	2,743	3,072	3,899	4,155	1,470	1,580	13	16	8,124	8,822
West Virginia	681	766	627	675	1,082	1,152	0	0	2,391	2,593
East South Central	7,543	7,689	7,202	7,089	8,240	8,822	0	0	22,985	23,600
Alabama	2,210	2,244	1,880	1,870	2,788	2,891	0	0	6,879	7,004
Kentucky	1,639	1,761	1,499	1,525	2,301	2,643	0	0	5,439	5,929
Mississippi	1,199	1,163	1,099	1,082	1,398	1,357	0	0	3,697	3,602
Tennessee	2,494	2,521	2,724	2,612	1,752	1,931	0	0	6,970	7,064
West South Central	14,311	13,963	15,420	15,470	14,080	13,919	15	15	43,827	43,367
Arkansas	1,041	1,063	924	932	1,300	1,309	0	0	3,264	3,304
Louisiana	2,012	2,081	1,952	1,982	2,707	2,627	1	1	6,672	6,692
Oklahoma	1,452	1,419	1,688	1,633	1,426	1,426	0	0	4,566	4,477
Texas	9,808	9,401	10,856	10,922	8,647	8,556	14	14	29,325	28,894
Mountain	6,763	6,431	7,663	7,640	6,945	7,029	11	10	21,382	21,110
Arizona	2,512	2,320	2,452	2,411	1,275	1,169	0	1	6,239	5,900
Colorado	1,351	1,296	1,625	1,636	1,254	1,224	5	5	4,235	4,161
Idaho	513	511	488	481	764	805	0	0	1,765	1,797
Montana	321	324	385	385	340	340	0	0	1,046	1,049
Nevada	831	809	823	814	1,121	1,184	1	1	2,775	2,808
New Mexico	450	434	722	717	625	612	0	0	1,798	1,763
Utah	602	556	890	883	771	826	4	4	2,267	2,269
Wyoming	183	180	279	313	793	869	0	0	1,255	1,362
Pacific Contiguous	9,578	9,498	12,739	12,478	7,026	7,394	65	69	29,407	29,439
California	5,975	5,925	9,111	8,959	4,040	4,309	63	67	19,189	19,260
Oregon	1,296	1,244	1,288	1,270	963	1,054	2	2	3,549	3,569
Washington	2,307	2,329	2,339	2,249	2,023	2,031	0	0	6,669	6,610
Pacific Noncontiguous	350	343	484	482	419	404	0	0	1,253	1,229
Alaska	144	147	216	217	110	109	0	0	471	473
Hawaii	206	196	267	265	309	295	0	0	782	756
U.S. Total	93,867	94,863	107,939	109,127	78,258	80,738	585	611	280,649	285,339

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.

See Technical Notes for a discussion of the sample design for the Form EIA-826.

Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.

Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.

Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through May 2016 and 2015 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	18,464	20,338	20,818	21,442	6,965	7,334	234	258	46,481	49,371
Connecticut	4,997	5,610	5,026	5,248	1,287	1,314	73	86	11,383	12,259
Maine	1,970	2,025	1,630	1,578	1,198	1,345	0	0	4,799	4,948
Massachusetts	7,638	8,513	10,122	10,499	2,781	2,995	150	160	20,690	22,166
New Hampshire	1,828	1,992	1,791	1,821	795	778	0	0	4,414	4,591
Rhode Island	1,166	1,264	1,440	1,468	313	327	12	12	2,931	3,072
Vermont	864	933	810	827	591	575	0	0	2,264	2,335
Middle Atlantic	50,758	56,471	62,455	64,510	28,877	29,127	1,568	1,663	143,657	151,769
New Jersey	10,114	11,136	15,084	15,621	2,808	2,947	128	131	28,134	29,834
New York	18,972	20,647	29,899	30,740	7,004	6,711	1,138	1,210	57,014	59,308
Pennsylvania	21,671	24,688	17,472	18,149	19,064	19,469	302	322	58,510	62,627
East North Central	71,802	77,086	73,100	74,650	76,159	78,227	243	265	221,304	230,228
Illinois	16,841	18,016	20,047	20,477	17,049	17,480	212	233	54,149	56,206
Indiana	12,747	14,005	9,463	9,762	17,620	18,646	9	9	39,838	42,422
Michigan	13,130	13,751	15,336	15,635	12,519	12,449	2	2	40,987	41,837
Ohio	20,441	22,521	18,770	19,255	19,406	20,008	21	21	58,637	61,805
Wisconsin	8,644	8,793	9,484	9,521	9,565	9,645	0	0	27,693	27,959
West North Central	39,846	42,051	40,342	41,040	33,881	35,728	19	21	114,088	118,840
Iowa	5,543	5,726	4,863	4,910	8,718	8,550	0	0	19,124	19,186
Kansas	4,614	4,922	5,922	6,031	4,316	4,382	0	0	14,852	15,335
Minnesota	8,772	9,018	9,316	9,486	7,948	8,624	10	11	26,045	27,139
Missouri	12,978	14,145	11,971	12,282	4,965	6,433	9	10	29,924	32,869
Nebraska	3,861	3,932	3,766	3,773	3,872	3,923	0	0	11,499	11,629
North Dakota	2,109	2,284	2,550	2,594	3,004	2,753	0	0	7,663	7,631
South Dakota	1,969	2,024	1,954	1,963	1,057	1,063	0	0	4,981	5,051
South Atlantic	135,061	145,387	120,933	122,506	56,263	58,150	566	584	312,824	326,627
Delaware	1,856	2,152	1,697	1,696	786	986	0	0	4,339	4,835
District of Columbia	902	1,043	3,385	3,345	77	150	140	148	4,504	4,686
Florida	43,654	45,094	36,230	36,556	6,693	6,806	39	39	86,616	88,495
Georgia	21,066	22,446	18,329	18,482	13,021	12,984	70	71	52,486	53,983
Maryland	10,977	12,536	11,624	12,109	1,511	1,533	238	236	24,350	26,413
North Carolina	22,339	24,137	18,624	18,859	10,790	11,047	3	4	51,755	54,047
South Carolina	11,403	12,105	8,447	8,470	10,910	11,938	0	0	30,760	32,512
Virginia	17,903	20,349	19,433	19,725	7,128	7,162	76	86	44,539	47,323
West Virginia	4,961	5,526	3,165	3,264	5,348	5,543	0	0	13,475	14,333
East South Central	45,284	50,053	34,490	34,916	40,338	42,399	0	0	120,112	127,368
Alabama	11,911	12,959	8,722	8,850	13,460	13,966	0	0	34,093	35,774
Kentucky	10,457	11,659	7,429	7,546	11,416	12,658	0	0	29,302	31,862
Mississippi	6,691	7,348	5,168	5,246	6,763	6,614	0	0	18,622	19,209
Tennessee	16,225	18,088	13,172	13,274	8,699	9,161	0	0	38,095	40,523
West South Central	74,545	80,731	74,336	75,654	69,939	66,331	75	75	218,895	222,790
Arkansas	6,618	7,520	4,496	4,615	6,346	6,272	0	0	17,460	18,408
Louisiana	10,684	11,899	9,294	9,538	13,659	12,824	5	5	33,642	34,266
Oklahoma	8,004	8,614	7,598	7,634	6,863	6,881	0	0	22,465	23,129
Texas	49,239	52,698	52,948	53,866	43,070	40,352	70	70	145,327	146,987
Mountain	34,625	33,569	36,672	36,517	32,967	33,276	55	55	104,320	103,417
Arizona	10,815	10,334	11,089	11,027	6,115	5,639	2	3	28,021	27,003
Colorado	7,245	7,069	8,032	7,977	6,100	6,129	27	26	21,404	21,201
Idaho	3,426	3,311	2,505	2,479	2,791	3,076	0	0	8,722	8,866
Montana	2,125	2,135	2,017	2,027	1,717	1,715	0	0	5,859	5,877
Nevada	3,897	3,778	3,615	3,621	5,463	5,514	3	3	12,978	12,916
New Mexico	2,534	2,535	3,407	3,418	2,983	2,943	0	0	8,924	8,897
Utah	3,340	3,195	4,480	4,306	3,709	3,980	23	23	11,551	11,504
Wyoming	1,242	1,212	1,529	1,662	4,090	4,279	0	0	6,860	7,153
Pacific Contiguous	56,389	55,373	63,287	63,675	33,391	35,396	343	367	153,410	154,811
California	32,635	32,083	44,647	45,079	18,909	19,677	331	355	96,521	97,195
Oregon	8,143	7,801	6,530	6,424	4,502	4,886	10	10	19,185	19,121
Washington	15,611	15,489	12,110	12,172	9,980	10,832	2	2	37,703	38,495
Pacific Noncontiguous	1,889	1,905	2,417	2,432	2,042	1,976	0	0	6,349	6,313
Alaska	873	907	1,163	1,181	563	551	0	0	2,599	2,639
Hawaii	1,017	998	1,254	1,251	1,480	1,425	0	0	3,750	3,674
U.S. Total	528,662	562,964	528,851	537,341	380,823	387,942	3,104	3,287	1,441,440	1,491,534

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.

See Technical Notes for a discussion of the sample design for the Form EIA-826.

Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.

Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.

Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, May 2016 and 2015 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	588	634	588	613	166	177	3	5	1,345	1,429
Connecticut	171	186	151	162	33	30	1	2	357	380
Maine	54	52	38	39	20	23	0	0	112	115
Massachusetts	247	273	287	294	73	83	1	2	608	653
New Hampshire	55	59	47	51	19	20	0	0	121	130
Rhode Island	37	40	41	42	9	9	0	0	87	91
Vermont	25	25	23	24	12	12	0	0	60	61
Middle Atlantic	1,375	1,452	1,479	1,595	398	391	30	35	3,282	3,473
New Jersey	303	330	385	411	59	66	2	2	749	809
New York	588	621	780	851	81	58	24	27	1,474	1,558
Pennsylvania	483	501	315	333	258	267	4	5	1,060	1,106
East North Central	1,672	1,664	1,468	1,496	1,051	1,085	3	3	4,194	4,248
Illinois	399	403	354	363	221	205	3	3	977	973
Indiana	244	247	183	189	241	259	0	0	669	696
Michigan	366	337	335	349	187	194	0	0	888	881
Ohio	438	458	390	389	251	276	0	0	1,081	1,123
Wisconsin	224	219	206	205	151	151	0	0	581	576
West North Central	795	775	774	755	483	480	0	0	2,052	2,011
Iowa	108	109	87	84	107	94	0	0	302	287
Kansas	118	106	128	125	67	67	0	0	313	299
Minnesota	190	183	186	179	115	117	0	0	491	480
Missouri	246	249	228	230	69	82	0	0	543	562
Nebraska	66	64	67	66	59	59	0	0	192	189
North Dakota	32	31	42	40	49	45	0	0	123	116
South Dakota	36	33	36	31	16	16	0	0	87	79
South Atlantic	2,902	3,045	2,355	2,472	735	817	9	10	6,001	6,344
Delaware	43	40	37	32	14	20	0	0	94	92
District of Columbia	17	17	78	84	1	6	3	3	100	110
Florida	1,056	1,137	724	774	108	118	1	1	1,889	2,030
Georgia	453	468	371	388	144	157	1	1	969	1,014
Maryland	247	261	263	277	26	28	4	4	540	570
North Carolina	421	430	327	337	139	155	0	0	887	923
South Carolina	258	258	177	184	134	154	0	0	569	595
Virginia	330	357	319	340	98	108	1	1	748	806
West Virginia	78	77	59	57	71	70	0	0	207	205
East South Central	826	862	711	735	456	508	0	0	1,993	2,105
Alabama	267	273	207	209	168	180	0	0	643	662
Kentucky	172	180	141	143	120	136	0	0	433	460
Mississippi	130	142	102	119	76	86	0	0	309	346
Tennessee	256	267	261	265	92	106	0	0	608	637
West South Central	1,538	1,605	1,201	1,229	708	770	1	1	3,448	3,606
Arkansas	106	109	76	78	73	79	0	0	255	266
Louisiana	187	201	164	175	129	144	0	0	481	521
Oklahoma	156	157	122	118	67	75	0	0	344	349
Texas	1,090	1,138	839	858	439	472	1	1	2,369	2,469
Mountain	810	791	748	761	422	462	1	1	1,981	2,015
Arizona	325	294	271	260	78	80	0	0	675	634
Colorado	158	155	155	163	86	87	0	0	399	406
Idaho	52	59	38	38	48	55	0	0	138	152
Montana	37	37	40	40	16	18	0	0	93	94
Nevada	100	109	66	77	54	71	0	0	221	258
New Mexico	51	54	67	73	36	39	0	0	154	165
Utah	66	62	83	81	48	53	0	0	197	196
Wyoming	21	20	27	29	56	60	0	0	104	109
Pacific Contiguous	1,420	1,369	1,636	1,624	616	646	5	6	3,677	3,645
California	1,060	1,028	1,329	1,332	471	494	5	5	2,865	2,859
Oregon	140	134	115	113	59	64	0	0	314	312
Washington	220	207	192	180	87	87	0	0	499	474
Pacific Noncontiguous	85	89	103	110	79	82	0	0	267	281
Alaska	30	30	40	40	18	15	0	0	88	85
Hawaii	55	59	63	70	61	67	0	0	179	196
U.S. Total	12,011	12,288	11,063	11,390	5,115	5,418	53	60	28,242	29,157

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.

See Technical Notes for a discussion of the sample design for the Form EIA-826.

Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.

Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.

Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through May 2016 and 2015 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	3,550	4,166	3,159	3,500	838	927	20	30	7,567	8,622
Connecticut	1,037	1,232	795	886	169	178	8	14	2,010	2,310
Maine	304	320	197	219	105	133	0	0	606	672
Massachusetts	1,506	1,823	1,567	1,725	363	405	10	14	3,446	3,966
New Hampshire	336	388	261	289	99	103	0	0	696	780
Rhode Island	219	246	222	261	43	50	2	2	485	560
Vermont	148	157	117	119	59	58	0	0	324	334
Middle Atlantic	7,850	8,912	7,501	8,342	2,021	2,224	169	196	17,541	19,674
New Jersey	1,566	1,737	1,817	1,986	279	328	11	14	3,674	4,064
New York	3,229	3,896	4,031	4,590	410	454	134	157	7,803	9,096
Pennsylvania	3,055	3,279	1,654	1,766	1,332	1,442	24	26	6,065	6,513
East North Central	9,203	9,668	7,111	7,308	5,150	5,310	17	20	21,481	22,306
Illinois	2,073	2,215	1,731	1,816	1,075	1,110	14	16	4,893	5,156
Indiana	1,409	1,537	899	943	1,190	1,252	1	1	3,499	3,733
Michigan	1,954	1,906	1,605	1,629	858	874	0	0	4,416	4,410
Ohio	2,535	2,769	1,847	1,890	1,304	1,341	2	3	5,688	6,002
Wisconsin	1,232	1,241	1,029	1,031	723	732	0	0	2,984	3,005
West North Central	4,408	4,503	3,654	3,609	2,263	2,331	2	2	10,325	10,445
Iowa	629	632	421	415	468	464	0	0	1,518	1,512
Kansas	593	595	607	597	321	323	0	0	1,521	1,515
Minnesota	1,083	1,067	898	870	561	589	1	1	2,543	2,528
Missouri	1,293	1,402	997	1,011	307	362	1	1	2,597	2,776
Nebraska	391	390	325	324	290	288	0	0	1,006	1,002
North Dakota	204	207	228	220	239	227	0	0	670	654
South Dakota	214	211	179	171	78	76	0	0	470	458
South Atlantic	15,552	16,767	11,266	11,722	3,471	3,766	44	49	30,334	32,305
Delaware	251	282	176	175	64	83	0	0	491	540
District of Columbia	119	131	401	403	7	13	13	14	540	561
Florida	4,896	5,311	3,350	3,590	515	564	3	4	8,765	9,469
Georgia	2,296	2,442	1,745	1,793	677	733	3	4	4,721	4,972
Maryland	1,563	1,666	1,279	1,368	121	140	19	21	2,982	3,195
North Carolina	2,477	2,672	1,596	1,619	637	687	0	0	4,711	4,978
South Carolina	1,399	1,484	836	849	621	705	0	0	2,856	3,038
Virginia	2,009	2,256	1,586	1,653	480	509	6	7	4,081	4,425
West Virginia	542	523	297	272	348	332	0	0	1,187	1,128
East South Central	4,777	5,308	3,431	3,588	2,221	2,434	0	0	10,429	11,330
Alabama	1,400	1,502	956	970	763	814	0	0	3,119	3,286
Kentucky	1,048	1,145	693	700	601	662	0	0	2,342	2,507
Mississippi	714	838	500	576	380	427	0	0	1,594	1,842
Tennessee	1,614	1,822	1,282	1,342	477	530	0	0	3,373	3,695
West South Central	7,832	8,828	5,688	6,022	3,502	3,720	4	4	17,027	18,574
Arkansas	627	699	359	368	349	361	0	0	1,336	1,428
Louisiana	948	1,074	794	834	668	697	0	0	2,411	2,605
Oklahoma	784	839	526	547	308	352	0	0	1,618	1,737
Texas	5,472	6,216	4,009	4,273	2,176	2,311	4	4	11,662	12,804
Mountain	3,917	3,891	3,378	3,483	1,943	2,090	5	5	9,243	9,470
Arizona	1,285	1,222	1,120	1,099	341	347	0	0	2,747	2,668
Colorado	824	830	726	773	410	426	2	3	1,962	2,032
Idaho	335	328	191	193	169	190	0	0	694	712
Montana	228	229	203	210	82	88	0	0	512	527
Nevada	465	503	298	346	270	329	0	0	1,033	1,179
New Mexico	288	312	317	348	167	181	0	0	772	842
Utah	357	338	381	364	222	236	2	2	963	940
Wyoming	134	129	143	150	283	292	0	0	560	571
Pacific Contiguous	7,760	7,397	7,817	7,896	2,737	2,891	30	31	18,344	18,215
California	5,467	5,247	6,227	6,353	2,031	2,133	28	30	13,754	13,763
Oregon	849	820	577	568	265	288	1	1	1,692	1,677
Washington	1,443	1,330	1,013	975	441	470	0	0	2,898	2,776
Pacific Noncontiguous	450	488	508	556	379	421	0	0	1,336	1,465
Alaska	176	178	208	207	85	80	0	0	469	465
Hawaii	274	310	299	349	294	341	0	0	868	1,000
U.S. Total	65,298	69,927	53,512	56,028	24,526	26,115	291	338	143,626	152,408

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.

See Technical Notes for a discussion of the sample design for the Form EIA-826.

Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.

Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.

Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, May 2016 and 2015 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	19.20	20.37	14.82	15.10	11.75	11.68	8.01	11.62	15.86	16.37
Connecticut	21.63	23.08	15.86	16.51	13.08	12.73	11.43	16.49	17.74	18.66
Maine	15.93	15.66	12.26	12.78	8.34	8.79	--	--	12.58	12.69
Massachusetts	19.06	20.70	14.85	14.86	12.70	12.44	5.51	8.67	15.89	16.34
New Hampshire	18.54	19.49	14.43	15.11	12.12	12.36	--	--	15.52	16.23
Rhode Island	18.02	18.64	14.37	14.53	13.65	12.85	18.95	17.62	15.65	15.86
Vermont	17.79	17.49	14.82	14.86	9.77	9.96	--	--	14.36	14.38
Middle Atlantic	15.92	15.95	12.12	12.69	6.92	7.16	10.51	11.14	12.21	12.65
New Jersey	15.40	15.65	12.42	12.74	10.05	10.59	8.43	9.58	13.19	13.53
New York	17.73	18.09	13.59	14.48	5.76	5.67	11.47	12.26	13.80	14.75
Pennsylvania	14.42	14.07	9.34	9.60	6.87	7.00	7.48	7.96	10.07	10.14
East North Central	13.57	13.28	9.97	9.93	6.77	6.68	7.00	7.50	9.84	9.68
Illinois	13.30	13.39	9.02	8.92	6.33	5.81	6.79	6.97	9.34	9.15
Indiana	11.81	11.57	9.57	9.60	6.98	6.59	9.27	10.63	8.99	8.65
Michigan	15.33	14.23	10.71	10.89	7.02	7.34	11.33	11.36	10.85	10.71
Ohio	13.02	12.95	10.01	9.83	6.35	6.64	7.76	12.71	9.62	9.64
Wisconsin	14.98	14.82	11.08	11.05	7.72	7.63	15.00	--	10.94	10.82
West North Central	12.46	12.07	9.61	9.37	6.92	6.60	8.07	8.38	9.58	9.24
Iowa	13.01	12.32	9.44	8.84	5.71	5.25	--	--	8.32	7.92
Kansas	13.79	12.95	10.44	10.14	7.43	7.39	--	--	10.49	10.07
Minnesota	13.05	12.66	9.95	9.63	7.17	7.15	8.69	9.05	9.97	9.69
Missouri	11.93	11.84	9.35	9.35	6.96	6.10	7.38	7.54	9.88	9.50
Nebraska	11.05	10.98	8.79	8.86	7.36	7.22	--	--	8.89	8.81
North Dakota	11.07	10.48	9.13	8.76	8.43	8.22	--	--	9.24	8.92
South Dakota	12.12	11.28	9.55	8.64	7.52	7.14	--	--	9.93	9.14
South Atlantic	11.64	11.82	9.24	9.43	6.19	6.44	7.86	8.39	9.62	9.79
Delaware	14.54	14.44	10.63	11.02	7.97	7.89	--	--	11.45	11.21
District of Columbia	13.71	13.22	11.66	11.61	8.93	8.57	8.97	9.14	11.82	11.53
Florida	10.86	11.59	8.91	9.55	7.48	8.21	8.15	8.70	9.79	10.49
Georgia	11.51	11.68	9.64	9.86	5.29	5.75	4.62	5.24	9.21	9.48
Maryland	14.70	13.65	11.16	10.86	8.11	8.16	7.90	8.77	12.24	11.75
North Carolina	11.41	11.42	8.56	8.55	6.03	6.13	8.04	8.27	9.04	9.01
South Carolina	12.54	12.69	9.85	9.98	5.73	5.97	--	--	9.19	9.23
Virginia	12.03	11.63	8.19	8.17	6.63	6.84	8.01	8.12	9.21	9.14
West Virginia	11.41	10.05	9.35	8.49	6.55	6.11	--	--	8.67	7.90
East South Central	10.95	11.22	9.87	10.37	5.54	5.76	--	--	8.67	8.92
Alabama	12.10	12.19	11.02	11.15	6.03	6.23	--	--	9.34	9.45
Kentucky	10.51	10.24	9.40	9.37	5.20	5.16	--	--	7.95	7.75
Mississippi	10.88	12.20	9.31	10.96	5.46	6.31	--	--	8.36	9.61
Tennessee	10.25	10.58	9.56	10.15	5.26	5.47	--	--	8.73	9.02
West South Central	10.75	11.50	7.79	7.94	5.03	5.54	5.68	5.62	7.87	8.31
Arkansas	10.19	10.27	8.20	8.39	5.62	6.04	8.70	10.84	7.81	8.06
Louisiana	9.28	9.68	8.43	8.81	4.78	5.49	9.57	9.25	7.20	7.78
Oklahoma	10.73	11.03	7.21	7.22	4.67	5.26	--	--	7.54	7.80
Texas	11.11	12.11	7.73	7.86	5.08	5.52	5.41	5.34	8.08	8.55
Mountain	11.98	12.30	9.76	9.96	6.08	6.57	9.59	9.86	9.27	9.54
Arizona	12.94	12.69	11.07	10.78	6.12	6.80	9.89	10.15	10.81	10.74
Colorado	11.67	12.00	9.55	9.95	6.83	7.12	9.55	9.87	9.42	9.75
Idaho	10.14	11.58	7.75	7.96	6.33	6.77	--	--	7.83	8.46
Montana	11.42	11.25	10.44	10.27	4.79	5.38	--	--	8.90	8.99
Nevada	12.09	13.53	8.05	9.47	4.84	6.04	7.36	9.02	7.96	9.19
New Mexico	11.35	12.41	9.25	10.16	5.80	6.30	--	--	8.57	9.37
Utah	11.01	11.09	9.32	9.22	6.18	6.37	9.95	9.94	8.70	8.64
Wyoming	11.53	11.25	9.77	9.28	7.04	6.89	--	--	8.30	8.02
Pacific Contiguous	14.83	14.42	12.84	13.02	8.77	8.73	8.22	8.19	12.51	12.38
California	17.74	17.35	14.58	14.87	11.66	11.46	8.18	8.16	14.93	14.84
Oregon	10.80	10.81	8.92	8.89	6.08	6.12	9.34	9.18	8.84	8.74
Washington	9.54	8.89	8.22	7.98	4.28	4.31	8.61	8.43	7.48	7.17
Pacific Noncontiguous	24.42	25.88	21.26	22.76	18.82	20.33	--	--	21.32	22.83
Alaska	20.91	20.26	18.39	18.21	16.10	14.13	--	--	18.63	17.91
Hawaii	26.87	30.11	23.59	26.48	19.78	22.61	--	--	22.95	25.91
U.S. Total	12.80	12.95	10.25	10.44	6.54	6.71	9.13	9.89	10.06	10.22

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.

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Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through May 2016 and 2015 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD	May 2016 YTD	May 2015 YTD
New England	19.23	20.48	15.17	16.32	12.03	12.64	8.77	11.66	16.28	17.46
Connecticut	20.75	21.97	15.83	16.88	13.16	13.52	11.45	16.58	17.66	18.85
Maine	15.44	15.81	12.10	13.87	8.74	9.91	--	--	12.63	13.59
Massachusetts	19.72	21.41	15.48	16.43	13.04	13.51	6.72	8.55	16.65	17.89
New Hampshire	18.39	19.46	14.57	15.87	12.46	13.23	--	--	15.77	16.98
Rhode Island	18.73	19.44	15.40	17.78	13.70	15.41	18.37	17.68	16.56	18.21
Vermont	17.12	16.82	14.44	14.43	10.00	10.11	--	--	14.30	14.32
Middle Atlantic	15.46	15.78	12.01	12.93	7.00	7.63	10.78	11.81	12.21	12.96
New Jersey	15.48	15.60	12.05	12.72	9.95	11.13	8.80	10.46	13.06	13.62
New York	17.02	18.87	13.48	14.93	5.85	6.76	11.76	12.94	13.69	15.34
Pennsylvania	14.10	13.28	9.47	9.73	6.99	7.41	7.91	8.10	10.37	10.40
East North Central	12.82	12.54	9.73	9.79	6.76	6.79	6.99	7.57	9.71	9.69
Illinois	12.31	12.29	8.63	8.87	6.31	6.35	6.78	7.03	9.04	9.17
Indiana	11.05	10.98	9.50	9.66	6.75	6.72	9.64	10.14	8.78	8.80
Michigan	14.88	13.86	10.46	10.42	6.85	7.02	11.39	11.42	10.77	10.54
Ohio	12.40	12.29	9.84	9.81	6.72	6.70	7.54	12.16	9.70	9.71
Wisconsin	14.25	14.12	10.85	10.83	7.56	7.59	14.64	--	10.78	10.75
West North Central	11.06	10.71	9.06	8.79	6.68	6.53	8.39	8.10	9.05	8.79
Iowa	11.36	11.04	8.65	8.46	5.37	5.43	--	--	7.94	7.88
Kansas	12.86	12.08	10.25	9.91	7.43	7.38	--	--	10.24	9.88
Minnesota	12.35	11.83	9.64	9.17	7.06	6.84	9.88	9.29	9.77	9.31
Missouri	9.96	9.91	8.33	8.23	6.19	5.63	6.74	6.72	8.68	8.44
Nebraska	10.13	9.91	8.62	8.59	7.48	7.35	--	--	8.75	8.62
North Dakota	9.66	9.07	8.93	8.46	7.94	8.26	--	--	8.74	8.57
South Dakota	10.85	10.43	9.14	8.72	7.37	7.16	--	--	9.44	9.08
South Atlantic	11.52	11.53	9.32	9.57	6.17	6.48	7.82	8.41	9.70	9.89
Delaware	13.50	13.08	10.40	10.31	8.18	8.44	--	--	11.32	11.16
District of Columbia	13.18	12.59	11.84	12.06	9.13	8.60	9.30	9.24	11.98	11.98
Florida	11.22	11.78	9.25	9.82	7.70	8.29	8.45	9.02	10.12	10.70
Georgia	10.90	10.88	9.52	9.70	5.20	5.65	4.46	5.08	8.99	9.21
Maryland	14.24	13.29	11.00	11.30	8.02	9.13	7.80	8.81	12.25	12.09
North Carolina	11.09	11.07	8.57	8.58	5.91	6.22	7.94	7.88	9.10	9.21
South Carolina	12.27	12.26	9.90	10.02	5.69	5.90	--	--	9.28	9.34
Virginia	11.22	11.09	8.16	8.38	6.74	7.10	7.89	8.40	9.16	9.35
West Virginia	10.93	9.47	9.37	8.34	6.51	6.00	--	--	8.81	7.87
East South Central	10.55	10.60	9.95	10.28	5.51	5.74	--	--	8.68	8.90
Alabama	11.75	11.59	10.96	10.96	5.67	5.83	--	--	9.15	9.19
Kentucky	10.02	9.82	9.32	9.28	5.27	5.23	--	--	7.99	7.87
Mississippi	10.68	11.41	9.67	10.98	5.63	6.46	--	--	8.56	9.59
Tennessee	9.95	10.08	9.73	10.11	5.48	5.79	--	--	8.86	9.12
West South Central	10.51	10.93	7.65	7.96	5.01	5.61	5.65	5.55	7.78	8.34
Arkansas	9.48	9.29	7.99	7.97	5.50	5.76	8.84	11.01	7.65	7.76
Louisiana	8.88	9.03	8.54	8.75	4.89	5.43	8.95	8.39	7.17	7.60
Oklahoma	9.79	9.74	6.92	7.16	4.49	5.11	--	--	7.20	7.51
Texas	11.11	11.80	7.57	7.93	5.05	5.73	5.41	5.34	8.02	8.71
Mountain	11.31	11.59	9.21	9.54	5.89	6.28	9.42	9.91	8.86	9.16
Arizona	11.89	11.83	10.10	9.97	5.58	6.15	8.54	8.35	9.80	9.88
Colorado	11.38	11.74	9.04	9.69	6.72	6.96	9.22	10.10	9.17	9.58
Idaho	9.77	9.91	7.62	7.80	6.04	6.19	--	--	7.96	8.03
Montana	10.74	10.74	10.05	10.35	4.75	5.13	--	--	8.75	8.97
Nevada	11.94	13.31	8.23	9.56	4.95	5.98	7.61	8.81	7.96	9.13
New Mexico	11.37	12.31	9.30	10.19	5.59	6.16	--	--	8.65	9.46
Utah	10.69	10.57	8.51	8.45	5.99	5.92	10.01	10.04	8.34	8.17
Wyoming	10.81	10.63	9.35	9.02	6.91	6.83	--	--	8.16	7.98
Pacific Contiguous	13.76	13.36	12.35	12.40	8.20	8.17	8.64	8.41	11.96	11.77
California	16.75	16.35	13.95	14.09	10.74	10.84	8.61	8.39	14.25	14.16
Oregon	10.43	10.51	8.84	8.84	5.89	5.90	9.24	9.17	8.82	8.77
Washington	9.25	8.59	8.37	8.01	4.42	4.34	9.47	8.72	7.69	7.21
Pacific Noncontiguous	23.81	25.61	20.99	22.88	18.55	21.30	--	--	21.04	23.21
Alaska	20.12	19.60	17.91	17.54	15.04	14.50	--	--	18.03	17.61
Hawaii	26.97	31.07	23.86	27.92	19.88	23.92	--	--	23.13	27.22
U.S. Total	12.35	12.42	10.12	10.43	6.44	6.73	9.39	10.27	9.96	10.22

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.

See Technical Notes for a discussion of the sample design for the Form EIA-826.

Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.

Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.

Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

**Table 5.7. Number of Ultimate Customers Served by Sector:
2008 - May 2016**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	125,037,870	17,582,277	774,817	726	143,395,691
2009	125,208,777	17,562,150	757,497	703	143,529,126
2010	125,717,767	17,674,167	747,691	238	144,139,862
2011	126,143,072	17,637,928	727,889	92	144,508,982
2012	126,832,252	17,728,903	732,344	83	145,293,583
2013	127,776,941	17,679,466	831,734	74	146,288,214
2014	128,680,294	17,853,836	839,154	79	147,373,362
2015	129,820,862	17,955,347	812,708	75	148,588,992
Year 2014					
January	128,080,045	17,756,185	824,418	82	146,660,730
February	127,760,935	17,694,926	810,164	79	146,266,104
March	128,398,293	17,795,435	817,663	79	147,011,470
April	128,347,095	17,795,240	829,796	80	146,972,211
May	128,428,131	17,834,341	840,580	84	147,103,136
June	128,562,601	17,810,020	838,886	77	147,211,584
July	129,055,781	17,937,858	865,715	78	147,859,432
August	128,924,140	17,889,944	856,377	77	147,670,538
Sept	128,788,358	17,922,008	856,589	78	147,567,033
October	129,521,707	17,993,992	860,902	76	148,376,677
November	128,640,689	17,827,317	824,992	76	147,293,074
December	129,655,750	17,988,765	843,760	76	148,488,351
Year 2015					
January	129,215,651	17,890,834	793,506	75	147,900,066
February	128,876,660	17,822,307	787,486	74	147,486,527
March	129,897,464	17,944,082	801,577	75	148,643,198
April	129,648,338	17,935,819	802,129	75	148,386,361
May	129,617,236	17,668,429	806,924	76	148,092,665
June	129,872,422	18,012,136	827,850	76	148,712,484
July	130,246,512	18,064,686	836,925	76	149,148,199
August	129,626,521	17,980,932	825,351	75	148,432,879
Sept	129,913,018	18,023,117	826,586	75	148,762,796
October	130,290,827	18,053,077	826,398	75	149,170,377
November	129,780,969	17,964,381	801,397	75	148,546,822
December	130,864,727	18,104,363	816,368	74	149,785,532
Year 2016					
January	130,430,473	17,991,148	798,236	77	149,219,934
February	130,178,545	18,063,944	798,870	80	149,041,439
March	131,402,850	18,238,630	809,346	86	150,450,912
April	130,456,379	18,115,094	796,969	84	149,368,526
May	130,986,103	18,166,879	812,677	85	149,965,744
Rolling 12 Months Ending in May					
2015	129,200,365	17,885,948	828,237	76	147,914,626
2016	130,337,446	18,064,866	814,748	78	149,217,137

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.

Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.

Values for 2014 and prior years are final. Values for 2016 and 2015 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.

Sources: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report; Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.8. Number of Ultimate Customers Served by Sector by State:
May 2016 and 2015

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	6,327,881	6,271,688	873,365	864,457	26,109	26,200	6	6	7,227,361	7,162,351
Connecticut	1,487,827	1,467,808	152,236	150,350	4,433	4,406	3	3	1,644,499	1,622,567
Maine	712,495	706,908	93,585	92,334	3,101	3,041	0	0	809,181	802,283
Massachusetts	2,769,146	2,742,633	406,950	404,901	13,287	13,408	2	2	3,189,385	3,160,944
New Hampshire	613,214	600,768	107,240	105,040	3,253	3,269	0	0	723,707	709,077
Rhode Island	432,354	441,819	58,507	58,624	1,820	1,861	1	1	492,682	502,305
Vermont	312,845	311,752	54,847	53,208	215	215	0	0	367,907	365,175
Middle Atlantic	15,940,177	15,870,506	2,279,731	2,259,725	42,762	43,763	23	18	18,262,693	18,174,012
New Jersey	3,503,776	3,488,509	513,221	513,675	11,930	12,370	6	6	4,028,933	4,014,560
New York	7,103,986	7,073,764	1,071,094	1,054,118	7,587	7,677	11	6	8,182,678	8,135,565
Pennsylvania	5,332,415	5,308,233	695,416	691,932	23,245	23,716	6	6	6,051,082	6,023,887
East North Central	19,965,481	19,780,335	2,466,059	2,447,615	52,149	51,975	8	7	22,483,697	22,279,932
Illinois	5,236,069	5,166,342	604,945	600,656	5,464	5,508	3	3	5,846,481	5,772,509
Indiana	2,809,539	2,778,934	347,275	344,628	17,452	17,413	1	1	3,174,267	3,140,976
Michigan	4,326,144	4,290,563	542,045	536,385	NM	5,603	1	1	4,873,937	4,832,552
Ohio	4,923,149	4,892,273	621,453	617,113	18,751	18,823	2	2	5,563,355	5,528,211
Wisconsin	2,670,580	2,652,223	350,341	348,833	NM	4,628	1	0	3,025,657	3,005,684
West North Central	9,356,243	9,302,964	1,434,251	1,418,937	113,971	112,444	2	2	10,904,467	10,834,347
Iowa	1,365,383	1,361,586	239,991	229,621	NM	6,727	0	0	1,612,194	1,597,934
Kansas	1,259,022	1,249,388	231,911	229,095	26,139	25,831	0	0	1,517,072	1,504,314
Minnesota	2,359,344	2,369,025	284,985	288,719	NM	8,177	1	1	2,652,429	2,665,922
Missouri	2,762,449	2,739,346	374,863	372,190	8,359	8,472	1	1	3,145,672	3,120,009
Nebraska	842,164	830,306	158,499	157,062	53,730	52,960	0	0	1,054,393	1,040,328
North Dakota	374,275	364,761	72,057	69,796	7,879	7,405	0	0	454,211	441,962
South Dakota	393,606	388,552	71,945	72,454	NM	2,872	0	0	468,496	463,878
South Atlantic	27,253,696	26,829,055	3,730,704	3,443,086	79,013	78,135	13	11	31,063,426	30,350,287
Delaware	417,275	412,158	52,938	52,839	1,125	1,125	0	0	471,338	466,122
District of Columbia	258,548	246,891	25,950	25,349	1	1	3	1	284,502	272,242
Florida	9,164,539	8,973,135	1,213,940	1,189,636	20,750	19,714	2	2	10,399,231	10,182,487
Georgia	4,256,512	4,203,659	573,336	565,288	18,327	18,111	1	1	4,848,176	4,787,059
Maryland	2,290,276	2,250,072	250,941	248,110	8,726	8,796	5	5	2,549,948	2,506,983
North Carolina	4,424,311	4,370,989	682,703	670,103	10,043	10,107	1	1	5,117,058	5,051,200
South Carolina	2,219,493	2,186,506	357,698	352,647	4,490	4,555	0	0	2,581,681	2,543,708
Virginia	3,357,852	3,325,544	430,318	197,720	3,801	3,780	1	1	3,791,972	3,527,045
West Virginia	864,890	860,101	142,880	141,394	11,750	11,946	0	0	1,019,520	1,013,441
East South Central	8,301,625	8,218,655	1,373,949	1,359,378	25,045	24,891	0	0	9,700,619	9,602,924
Alabama	2,217,273	2,195,945	365,581	361,752	8,170	8,125	0	0	2,591,024	2,565,822
Kentucky	1,967,665	1,952,486	297,177	294,777	7,737	7,774	0	0	2,272,579	2,255,037
Mississippi	1,294,211	1,282,840	235,112	231,945	7,750	7,566	0	0	1,537,073	1,522,351
Tennessee	2,822,476	2,787,384	476,079	470,904	1,388	1,426	0	0	3,299,943	3,259,714
West South Central	15,522,007	15,323,223	2,238,307	2,177,186	180,531	181,292	6	6	17,940,851	17,681,707
Arkansas	1,369,024	1,357,258	188,753	185,841	32,274	31,711	2	2	1,590,053	1,574,812
Louisiana	2,061,909	2,042,092	289,875	286,367	18,690	18,495	1	1	2,370,475	2,346,955
Oklahoma	1,749,005	1,718,177	280,213	274,730	18,121	17,948	0	0	2,047,339	2,010,855
Texas	10,342,069	10,205,696	1,479,466	1,430,248	111,446	113,138	3	3	11,932,984	11,749,085
Mountain	9,490,212	9,364,472	1,362,999	1,347,296	88,376	88,989	4	4	10,941,591	10,800,761
Arizona	2,701,493	2,668,230	315,543	312,560	6,736	6,731	1	1	3,023,773	2,987,522
Colorado	2,251,761	2,220,310	356,059	352,628	14,609	14,680	1	1	2,622,430	2,587,619
Idaho	711,228	699,565	107,015	105,124	28,147	27,724	0	0	846,390	832,413
Montana	498,272	491,816	106,908	105,236	NM	7,691	0	0	612,894	604,743
Nevada	1,140,176	1,124,541	161,037	160,005	NM	3,463	1	1	1,304,646	1,288,010
New Mexico	887,426	879,490	137,825	136,652	8,556	8,628	0	0	1,033,807	1,024,770
Utah	1,029,560	1,012,261	120,293	116,523	9,525	10,504	1	1	1,159,379	1,139,289
Wyoming	270,296	268,259	58,319	58,568	9,657	9,568	0	0	338,272	336,395
Pacific Contiguous	18,114,887	17,945,529	2,293,052	2,239,240	202,569	197,207	23	22	20,610,531	20,381,998
California	13,435,368	13,328,082	1,680,726	1,636,973	147,953	143,938	15	13	15,264,062	15,109,006
Oregon	1,713,590	1,691,600	234,570	231,894	26,163	24,952	2	2	1,974,325	1,948,448
Washington	2,965,929	2,925,847	377,756	370,373	28,453	28,317	6	7	3,372,144	3,324,544
Pacific Noncontiguous	713,894	710,809	114,462	111,509	NM	2,028	0	0	830,508	824,346
Alaska	283,990	282,729	53,028	50,577	NM	NM	0	0	338,374	334,612
Hawaii	429,904	428,080	61,434	60,932	796	722	0	0	492,134	489,734
U.S. Total	130,986,103	129,617,236	18,166,879	17,668,429	812,677	806,924	85	76	149,965,744	148,092,665

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.

NM = Not Meaningful due to large relative standard error or excessive percentage change.

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Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 6.1. Electric Generating Summer Capacity Changes (MW), April 2016 to May 2016

		As of End of April 2016	Activity During May 2016 as Reported to EIA		As of End of May 2016	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
		Total In- Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	Total In- Service Capacity	Current Month	Year to Date	Past 12 Months	Planned Capacity Additions		Planned Capacity Reductions		Planned Net Change		Planned Total Net Summer	
Technology	Capacity Source								Next Month	Next 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	At End of Next Month	At End of Next 12 Months
..... Onshore Wind (Summer Capacity)	Utility Scale Facilities	73,323.2	533.1	7.7	73,848.6	525.4	1,270.7	7,509.1	611.4	7,744.1	1.3	1.3	610.1	7,742.8	74,458.7	81,591.4
..... Offshore Wind (Summer Capacity)	Utility Scale Facilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.3	0.0	0.0	0.0	29.3	0.0	29.3
..... Wind (Summer Capacity)	Utility Scale Facilities	73,323.2	533.1	7.7	73,848.6	525.4	1,270.7	7,509.1	611.4	7,773.4	1.3	1.3	610.1	7,772.1	74,458.7	81,620.7
..... Solar Photovoltaic	Utility Scale Facilities	12,880.6	130.0	5.3	13,005.3	124.7	1,375.6	3,675.8	296.3	7,827.1	0.0	0.0	296.3	7,827.1	13,301.6	20,832.4
..... Solar Thermal without Energy Storage	Utility Scale Facilities	1,352.5	43.8	0.0	1,396.3	43.8	25.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	1,396.3	1,396.3
..... Solar Thermal with Energy Storage	Utility Scale Facilities	405.4	0.0	0.0	405.4	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	405.4	405.4
..... Solar Subtotal	Utility Scale Facilities	14,638.5	173.8	5.3	14,807.0	168.5	1,400.6	3,810.8	296.3	7,827.1	0.0	0.0	296.3	7,827.1	15,103.3	22,634.1
..... Conventional Hydroelectric	Utility Scale Facilities	79,841.9	33.2	0.4	79,874.7	32.8	133.0	188.2	39.3	353.3	0.0	116.7	39.3	236.6	79,914.0	80,111.3
..... Wood/Wood Waste Biomass	Utility Scale Facilities	8,818.7	84.5	3.1	8,900.1	81.4	345.7	379.9	0.0	63.5	0.0	10.5	0.0	53.0	8,900.1	8,953.1
..... Landfill Gas	Utility Scale Facilities	2,111.7	1.6	1.4	2,111.9	0.2	-5.7	-4.7	0.0	25.1	0.0	10.6	0.0	14.5	2,111.9	2,126.4
..... Municipal Solid Waste	Utility Scale Facilities	2,247.1	0.0	0.0	2,247.1	0.0	-6.8	22.2	0.0	0.0	0.0	2.0	0.0	-2.0	2,247.1	2,245.1
..... Other Waste Biomass	Utility Scale Facilities	807.7	0.0	0.0	807.7	0.0	-30.8	-15.7	0.0	25.8	0.0	1.2	0.0	24.6	807.7	832.3
..... Biomass Sources Subtotal	Utility Scale Facilities	13,985.2	86.1	4.5	14,066.8	81.6	302.4	381.7	0.0	114.4	0.0	24.3	0.0	90.1	14,066.8	14,156.9
..... Geothermal	Utility Scale Facilities	2,525.3	16.2	0.0	2,541.5	16.2	11.3	-2.9	0.0	0.0	0.0	30.0	0.0	-30.0	2,541.5	2,511.5
... Renewable Sources Subtotal	Utility Scale Facilities	184,314.1	842.4	17.9	185,138.6	824.5	3,118.0	11,886.9	947.0	16,068.2	1.3	172.3	945.7	15,895.9	186,084.3	201,034.5
..... Natural Gas Fired Combined Cycle	Utility Scale Facilities	236,738.5	344.6	164.8	236,918.3	179.8	2,564.0	5,822.1	2,046.6	9,048.8	0.0	95.0	2,046.6	8,953.8	238,964.9	245,872.1
..... Natural Gas Fired Combustion Turbine	Utility Scale Facilities	123,666.6	534.8	54.5	124,146.9	480.3	-673.3	-916.8	1,031.6	1,609.1	7.3	132.3	1,024.3	1,476.8	125,171.2	125,623.7
..... Natural Gas Steam Turbine	Utility Scale Facilities	77,546.8	1,992.7	464.2	79,075.3	1,528.5	3,323.7	2,725.9	0.0	0.0	50.7	486.7	-50.7	-486.7	79,024.6	78,588.6
..... Natural Gas Internal Combustion Engine	Utility Scale Facilities	3,683.8	49.8	0.1	3,733.5	49.7	152.1	187.2	21.0	509.0	0.9	4.2	20.1	504.8	3,753.6	4,238.3
..... Natural Gas with Compressed Air Storage	Utility Scale Facilities	110.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.0	110.0
..... Other Natural Gas	Utility Scale Facilities	107.1	0.0	0.0	107.1	0.0	1.1	7.6	0.0	7.0	0.0	0.0	0.0	7.0	107.1	114.1
..... Natural Gas Subtotal	Utility Scale Facilities	441,852.8	2,921.9	683.6	444,091.1	2,238.3	5,367.6	7,826.0	3,099.2	11,173.9	58.9	718.2	3,040.3	10,455.7	447,131.4	454,546.8
..... Conventional Steam Coal	Utility Scale Facilities	275,036.5	674.8	2,854.9	272,856.4	-2,180.1	-10,854.3	-16,959.6	0.0	12.2	437.5	2,334.6	-437.5	-2,322.4	272,418.9	270,534.0
..... Coal Integrated Gasification Combined Cycle	Utility Scale Facilities	815.0	0.0	0.0	815.0	0.0	24.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	815.0	815.0
..... Coal Subtotal	Utility Scale Facilities	275,851.5	674.8	2,854.9	273,671.4	-2,180.1	-10,830.3	-16,935.6	0.0	12.2	437.5	2,334.6	-437.5	-2,322.4	273,233.9	271,349.0
..... Petroleum Coke	Utility Scale Facilities	1,740.4	3.9	204.0	1,540.3	-200.1	-649.9	-649.9	0.0	0.0	0.0	0.0	0.0	0.0	1,540.3	1,540.3
..... Petroleum Liquids	Utility Scale Facilities	34,865.2	58.7	79.3	34,844.6	-20.6	-1,952.7	-2,548.7	7.2	42.5	2.7	184.9	4.5	-142.4	34,849.1	34,702.2
..... Other Gases	Utility Scale Facilities	2,502.1	26.6	30.0	2,498.7	-3.4	584.4	584.4	0.0	0.0	0.0	3.2	0.0	-3.2	2,498.7	2,495.5
... Fossil Fuels Subtotal	Utility Scale Facilities	756,812.0	3,685.9	3,851.8	756,646.1	-165.9	-7,480.9	-11,723.8	3,106.4	11,228.6	499.1	3,240.9	2,607.3	7,987.7	759,253.4	764,633.8
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,597.1	73.0	0.0	22,670.1	73.0	112.0	112.0	0.0	114.0	0.0	0.0	0.0	114.0	22,670.1	22,784.1
..... Flywheels	Utility Scale Facilities	42.0	0.0	0.0	42.0	0.0	-1.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
..... Batteries	Utility Scale Facilities	261.7	37.5	0.0	299.2	37.5	53.5	109.6	20.0	116.6	0.0	0.0	20.0	116.6	319.2	415.8
... Energy Storage Subtotal	Utility Scale Facilities	22,900.8	110.5	0.0	23,011.3	110.5	164.5	220.6	20.0	230.6	0.0	0.0	20.0	230.6	23,031.3	23,241.9
... Nuclear	Utility Scale Facilities	98,619.0	53.0	0.0	98,672.0	53.0	-57.0	81.8	1,122.0	1,122.0	0.0	1,314.9	1,122.0	-192.9	99,794.0	98,479.1
... All Other	Utility Scale Facilities	1,461.4	54.7	54.0	1,462.1	0.7	-146.7	-146.7	0.0	22.5	0.0	0.0	0.0	22.5	1,462.1	1,484.6
TOTAL	UTILITY SCALE FACILITIES	1,064,107.3	4,746.5	3,923.7	1,064,930.1	822.8	-4,402.1	318.8	5,195.4	28,671.9	500.4	4,728.1	4,695.0	23,943.8	1,069,625.1	1,088,873.9
..... Estimated Distributed Solar Photovoltaic	Distributed Facilities	9,169.6			9,367.3	197.7	988.2	2,416.0								
..... Estimated Total Solar Photovoltaic	All Facilities	22,050.2			22,372.6	322.4	2,363.8	6,091.8								
... Estimated Total Solar	All Facilities	23,808.1			24,174.3	366.2	2,388.8	6,226.8								

NOTES:

Planned Capacity Additions reflect plans to begin operating new units and plans to uprate existing units.

Planned Capacity Reductions reflect plans to retire or derate existing units.

Actual Capacity Additions reflect new units, uprates to existing units, corrections to previously reported capacities, and additions not previously reported.

Actual Capacity Reductions reflect retirements of and derates to existing units, corrections to previously reported capacities, and reductions not previously reported.

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of capacity for some technologies such as solar photovoltaic generation.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Estimated distributed solar photovoltaic capacity is based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 6.1.A. Net Summer Capacity for Utility Scale Solar Photovoltaic and Distributed Solar Photovoltaic Capacity (Megawatts)
2008 - May 2016

Period	Utility Solar Photovoltaic	Estimated Distributed Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
2008	70.8	N/A	N/A
2009	145.5	N/A	N/A
2010	393.4	N/A	N/A
2011	1,052.0	N/A	N/A
2012	2,694.1	N/A	N/A
2013	5,336.1	N/A	N/A
2014	8,656.6	6,221.4	14,878.0
2015	11,629.7	8,379.1	20,008.8
Year 2014			
January	5,688.0	4,763.4	10,451.4
February	5,839.2	4,862.8	10,702.0
March	5,967.9	4,970.5	10,938.4
April	6,188.0	5,077.5	11,265.5
May	6,368.8	5,190.8	11,559.6
June	6,564.1	5,291.3	11,855.4
July	6,706.3	5,413.5	12,119.8
August	7,105.0	5,609.8	12,714.8
Sept	7,215.1	5,734.2	12,949.3
October	7,575.3	5,880.0	13,455.3
November	8,005.3	6,011.2	14,016.5
December	8,656.6	6,221.4	14,878.0
Year 2015			
January	8,818.7	6,389.8	15,208.5
February	8,975.4	6,522.6	15,498.0
March	9,036.5	6,655.5	15,692.0
April	9,119.2	6,797.0	15,916.2
May	9,329.5	6,951.3	16,280.8
June	9,598.3	7,105.5	16,703.8
July	9,686.2	7,320.9	17,007.1
August	9,897.9	7,491.9	17,389.8
Sept	10,001.7	7,689.4	17,691.1
October	10,104.3	7,875.7	17,980.0
November	10,419.4	8,061.4	18,480.8
December	11,629.7	8,379.1	20,008.8
Year 2016			
January	11,831.6	8,620.7	20,452.3
February	12,117.7	8,789.5	20,907.2
March	12,307.0	9,090.7	21,397.7
April	12,880.6	9,169.6	22,050.2
May	13,005.3	9,367.3	22,372.6

Values are preliminary.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Estimated distributed solar photovoltaic capacity is based on data from Form EIA-826, Form EIA-861 and from

**Table 6.1.B. Net Summer Capacity for Estimated Distributed Solar Photovoltaic Capacity by Sector (Megawatts):
2014 - May 2016**

Period	Residential	Commercial	Industrial	Total
Annual Totals				
2014	2,870.8	2,771.8	578.8	6,221.4
2015	4,375.5	3,291.7	712.0	8,379.1
Year 2014				
January	1,963.5	2,334.5	465.4	4,763.4
February	2,023.4	2,367.5	471.9	4,862.8
March	2,087.0	2,405.5	477.9	4,970.5
April	2,154.7	2,435.5	487.3	5,077.5
May	2,224.6	2,474.9	491.3	5,190.8
June	2,301.1	2,490.8	499.4	5,291.3
July	2,376.1	2,528.2	509.1	5,413.5
August	2,468.4	2,617.0	524.4	5,609.8
Sept	2,559.3	2,644.5	530.4	5,734.2
October	2,655.0	2,673.0	552.0	5,880.0
November	2,739.3	2,707.4	564.6	6,011.2
December	2,870.8	2,771.8	578.8	6,221.4
Year 2015				
January	2,960.1	2,834.5	595.2	6,389.8
February	3,060.8	2,853.3	608.4	6,522.6
March	3,169.2	2,873.3	613.0	6,655.5
April	3,274.8	2,901.6	620.6	6,797.0
May	3,384.1	2,936.6	630.6	6,951.3
June	3,516.4	2,956.2	632.9	7,105.5
July	3,650.7	3,023.2	647.0	7,320.9
August	3,779.3	3,055.3	657.2	7,491.9
Sept	3,936.7	3,086.7	665.9	7,689.4
October	4,083.9	3,115.8	676.0	7,875.7
November	4,212.2	3,160.3	688.9	8,061.4
December	4,375.5	3,291.7	712.0	8,379.1
Year 2016				
January	4,552.4	3,342.6	725.6	8,620.7
February	4,715.1	3,334.2	740.2	8,789.5
March	4,931.2	3,392.5	766.9	9,090.7
April	5,076.7	3,305.2	787.6	9,169.6
May	5,230.9	3,340.4	796.0	9,367.3

Values are preliminary.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State, May 2016 and 2015 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	4,998.2	4,602.3	22,756.6	22,840.2	1,797.4	1,775.4	2.0	3.0	4,018.0	4,046.3	48.0	52.9	33,620.2	33,320.1
Connecticut	333.6	331.4	6,309.2	6,266.8	29.4	29.4	0.0	0.0	2,087.8	2,122.5	26.0	30.9	8,786.0	8,781.0
Maine	2,150.5	1,795.4	2,442.5	2,645.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	22.0	4,615.0	4,462.4
Massachusetts	966.9	939.8	9,843.0	9,800.4	1,768.0	1,746.0	2.0	3.0	682.3	677.6	0.0	0.0	13,262.2	13,166.8
New Hampshire	932.5	935.4	2,270.9	2,266.7	0.0	0.0	0.0	0.0	1,247.9	1,246.2	0.0	0.0	4,451.3	4,448.3
Rhode Island	53.5	50.3	1,791.3	1,761.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,844.8	1,812.1
Vermont	561.2	550.0	99.7	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	660.9	649.5
Middle Atlantic	10,647.5	10,576.2	67,643.3	68,838.6	3,409.1	3,409.1	40.0	40.0	19,224.5	19,182.5	11.9	11.2	100,976.3	102,057.6
New Jersey	691.7	668.6	13,485.1	13,835.4	420.0	420.0	0.0	0.0	4,107.9	4,110.1	11.9	11.2	18,716.6	19,045.3
New York	7,101.6	7,048.0	25,956.6	26,520.7	1,406.1	1,406.1	20.0	20.0	5,397.6	5,431.4	0.0	0.0	39,881.9	40,426.2
Pennsylvania	2,854.2	2,859.6	28,201.6	28,482.5	1,583.0	1,583.0	20.0	20.0	9,719.0	9,641.0	0.0	0.0	42,377.8	42,586.1
East North Central	10,208.0	9,796.3	113,643.2	118,488.4	2,037.0	1,945.0	107.6	59.0	18,896.1	18,873.3	110.1	109.1	145,002.0	149,271.1
Illinois	3,977.0	3,805.1	29,428.2	30,013.3	0.0	0.0	72.6	33.0	11,589.6	11,564.1	0.0	0.0	45,067.4	45,415.5
Indiana	2,156.5	1,969.0	23,353.9	25,235.0	0.0	0.0	0.0	0.0	0.0	0.0	89.0	88.0	25,599.4	27,292.0
Michigan	2,258.4	2,147.7	20,742.4	22,106.0	2,037.0	1,945.0	0.0	0.0	3,976.5	3,982.0	0.0	0.0	29,014.3	30,180.7
Ohio	715.6	717.0	25,768.6	26,343.2	0.0	0.0	35.0	26.0	2,134.0	2,134.0	0.0	0.0	28,653.2	29,220.2
Wisconsin	1,100.5	1,157.5	14,350.1	14,790.9	0.0	0.0	0.0	0.0	1,196.0	1,193.2	21.1	21.1	16,667.7	17,162.7
West North Central	21,553.1	19,139.5	60,795.5	61,859.7	657.0	657.0	2.0	2.0	5,855.5	5,806.0	24.5	24.5	88,887.6	87,488.7
Iowa	6,349.2	5,745.5	9,532.5	10,055.9	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	16,483.1	16,402.8
Kansas	3,863.7	2,991.9	9,731.4	10,010.8	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	14,770.9	14,178.5
Minnesota	3,916.0	3,423.9	10,160.6	10,239.2	0.0	0.0	1.0	1.0	1,647.0	1,594.0	18.4	18.4	15,743.0	15,276.5
Missouri	1,032.2	1,050.8	18,829.1	18,893.5	657.0	657.0	1.0	1.0	1,190.0	1,193.0	0.0	0.0	21,709.3	21,795.3
Nebraska	1,214.7	1,105.4	6,236.1	6,384.4	0.0	0.0	0.0	0.0	1,242.1	1,242.6	0.0	0.0	8,692.9	8,732.4
North Dakota	2,741.5	2,484.0	4,615.5	4,585.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	7,362.3	7,074.9
South Dakota	2,435.8	2,338.0	1,690.3	1,690.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,126.1	4,028.3
South Atlantic	14,330.1	13,065.5	159,973.1	159,650.7	7,905.2	7,905.2	76.5	34.0	24,578.6	24,559.1	509.7	586.7	207,373.2	205,801.2
Delaware	44.9	44.9	3,361.1	3,042.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,406.0	3,087.3
District of Columbia	12.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	9.0
Florida	1,430.9	1,316.9	54,099.6	53,916.8	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	488.7	59,451.2	59,294.4
Georgia	3,235.9	2,959.3	27,190.9	27,454.1	1,862.2	1,862.2	0.0	0.0	4,061.0	4,061.0	0.0	44.0	36,350.0	36,380.6
Maryland	1,003.2	958.7	9,556.7	9,583.4	0.0	0.0	11.0	0.0	1,707.8	1,707.8	0.0	0.0	12,278.7	12,249.9
North Carolina	4,125.2	3,370.0	22,021.3	21,973.4	86.0	86.0	0.0	0.0	5,113.6	5,094.1	161.0	54.0	31,507.1	30,577.5
South Carolina	1,788.2	1,779.5	11,633.0	11,772.3	2,716.0	2,716.0	0.0	0.0	6,556.2	6,556.2	0.0	0.0	22,693.4	22,824.0
Virginia	1,759.8	1,750.2	17,938.2	17,143.4	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	26,507.0	25,702.6
West Virginia	930.0	886.0	14,163.3	14,755.9	0.0	0.0	65.5	34.0	0.0	0.0	0.0	0.0	15,158.8	15,675.9
East South Central	8,179.3	7,956.3	66,885.3	69,176.3	1,616.3	1,616.3	0.0	0.0	9,868.1	9,875.6	1.4	1.4	86,550.4	88,625.9
Alabama	3,934.9	3,886.9	21,159.5	22,793.0	0.0	0.0	0.0	0.0	5,066.4	5,066.4	0.0	0.0	30,160.8	31,746.3
Kentucky	1,080.6	905.6	19,004.5	18,883.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,085.1	19,788.8
Mississippi	274.7	274.7	14,407.4	14,405.7	0.0	0.0	0.0	0.0	1,401.0	1,408.5	1.4	1.4	16,084.5	16,090.3
Tennessee	2,889.1	2,889.1	12,313.9	13,094.4	1,616.3	1,616.3	0.0	0.0	3,400.7	3,400.7	0.0	0.0	20,220.0	21,000.5
West South Central	27,954.0	23,921.3	145,548.5	147,492.0	286.0	288.0	36.0	36.0	8,896.2	8,912.4	512.2	513.2	183,232.9	181,162.9
Arkansas	1,590.6	1,632.0	11,279.6	11,270.5	28.0	28.0	0.0	0.0	1,808.5	1,819.6	0.0	0.0	14,706.7	14,750.1
Louisiana	642.1	642.1	23,281.8	23,605.8	0.0	0.0	0.0	0.0	2,127.7	2,132.8	275.9	275.8	26,327.5	26,656.5
Oklahoma	6,389.5	4,718.9	18,175.4	19,245.6	258.0	260.0	0.0	0.0	0.0	0.0	0.0	0.0	24,822.9	24,224.5
Texas	19,331.8	16,928.3	92,811.7	93,370.1	0.0	0.0	36.0	36.0	4,960.0	4,960.0	236.3	237.4	117,375.8	115,531.8
Mountain	22,522.7	20,918.2	64,087.8	63,943.2	778.8	778.8	2.6	2.6	3,937.0	3,937.0	111.4	111.4	91,440.3	89,691.2
Arizona	4,557.4	4,406.6	19,382.4	19,674.4	216.3	216.3	0.0	0.0	3,937.0	3,937.0	0.0	0.0	28,093.1	28,234.3
Colorado	3,873.6	3,398.8	11,363.0	10,986.2	562.5	562.5	0.0	0.0	0.0	0.0	9.3	9.3	15,808.4	14,956.8
Idaho	3,776.1	3,776.1	1,157.5	1,152.9	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	4,948.4	4,943.8
Montana	3,414.1	3,397.8	2,740.4	2,762.7	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,198.5	6,204.5
Nevada	2,776.2	2,386.5	8,258.7	8,258.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,034.9	10,645.2
New Mexico	1,514.4	1,168.0	6,936.9	6,914.8	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,453.9	8,085.4
Utah	896.5	670.0	7,462.4	7,454.4	0.0	0.0	0.0	0.0	0.0	0.0	31.8	31.8	8,390.7	8,156.2
Wyoming	1,714.4	1,714.4	6,786.5	6,739.1	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,512.4	8,465.0
Pacific Contiguous	63,665.8	62,215.7	51,152.2	51,948.9	4,183.3	4,183.3	20.5	8.0	3,398.0	3,398.0	106.3	171.8	122,526.1	121,925.7
California	26,909.4	25,518.1	42,484.7	43,296.4	3,869.3	3,869.3	18.5	8.0	2,240.0	2,240.0	106.3	121.0	75,628.2	75,052.8
Oregon	12,041.1	12,040.0	3,859.8	3,859.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,900.9	15,899.6
Washington	24,715.3	24,657.6	4,807.7	4,792.9	314.0	314.0	2.0	0.0	1,158.0	1,158.0	0.0	50.8	30,997.0	30,973.3
Pacific Noncontiguous	1,079.9	1,060.4	4,160.6	4,131.9	0.0	0.0	54.0	48.0	0.0	0.0	26.6	26.6	5,321.1	5,266.9
Alaska	508.7	507.5	2,103.4	2,059.9	0.0	0.0	27.0	27.0	0.0	0.0	0.0	0.0	2,639.1	2,594.4
Hawaii	571.2	552.9	2,057.2	2,072.0	0.0	0.0	27.0	21.0	0.0	0.0	26.6	26.6	2,682.0	2,672.5
U.S. Total	185,138.6	173,251.7	756,646.1	768,369.9	22,670.1	22,558.1	341.2	232.6	98,672.0	98,590.2	1,462.1	1,608.8	1,064,930.1	1,064,611.3

Values are preliminary.

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of capacity for some technologies such as solar photovoltaic generation.
Concentrated Solar Power Energy Storage is included in 'Renewable sources'; it is not included in 'Other Energy Storage'

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, May 2016 and 2015 (Megawatts)

	Summer Capacity at Utility Scale Facilities														Distributed Capacity Estimated Distributed Solar Photovoltaic Capacity		Summer Capacity From Utility Scale Facilities and Distributed Capacity			
Census Division and State	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		May 2016	May 2015	Estimated Total Solar Photovoltaic Capacity		Estimated Total Solar Capacity	
	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015			May 2016	May 2015	May 2016	May 2015
New England	1,004.7	808.2	389.6	357.6	0.0	0.0	1,955.2	1,966.2	1,648.7	1,470.3	0.0	0.0	4,998.2	4,602.3	891.6	626.5	1,281.2	984.1	1,281.2	984.1
Connecticut	0.0	0.0	12.2	10.0	0.0	0.0	122.2	122.2	199.2	199.2	0.0	0.0	333.6	331.4	175.3	103.8	187.5	113.8	187.5	113.8
Maine	612.8	430.6	0.0	0.0	0.0	0.0	728.9	733.0	808.8	631.8	0.0	0.0	2,150.5	1,795.4	16.5	10.2	16.5	10.2	16.5	10.2
Massachusetts	82.6	82.6	335.1	310.5	0.0	0.0	265.9	263.4	283.3	283.3	0.0	0.0	966.9	939.8	601.2	455.8	936.3	766.3	936.3	766.3
New Hampshire	183.1	171.0	0.0	0.0	0.0	0.0	504.8	521.3	244.6	243.1	0.0	0.0	932.5	935.4	28.7	12.3	28.7	12.3	28.7	12.3
Rhode Island	6.0	3.8	7.9	6.9	0.0	0.0	2.7	2.7	36.9	36.9	0.0	0.0	53.5	50.3	12.0	8.2	19.9	15.1	19.9	15.1
Vermont	120.2	120.2	34.4	30.2	0.0	0.0	330.7	323.6	75.9	76.0	0.0	0.0	561.2	550.0	57.9	36.3	92.3	66.5	92.3	66.5
Middle Atlantic	3,088.1	3,098.5	552.7	513.7	0.0	0.0	5,623.5	5,618.8	1,383.2	1,345.2	0.0	0.0	10,647.5	10,576.2	1,575.9	1,233.6	2,128.6	1,747.3	2,128.6	1,747.3
New Jersey	7.6	7.6	442.7	417.9	0.0	0.0	12.3	12.3	229.1	230.8	0.0	0.0	691.7	668.6	898.7	763.4	1,341.4	1,181.3	1,341.4	1,181.3
New York	1,747.0	1,747.0	67.8	53.7	0.0	0.0	4,711.6	4,713.1	575.2	534.2	0.0	0.0	7,101.6	7,048.0	515.1	325.4	582.9	379.1	582.9	379.1
Pennsylvania	1,333.5	1,343.9	42.2	42.1	0.0	0.0	899.6	893.4	578.9	580.2	0.0	0.0	2,854.2	2,859.6	162.0	144.9	204.2	187.0	204.2	187.0
East North Central	7,814.1	7,480.4	215.3	165.6	0.0	0.0	910.3	918.2	1,268.3	1,232.1	0.0	0.0	10,208.0	9,796.3	147.9	124.0	363.2	289.6	363.2	289.6
Illinois	3,799.8	3,624.8	32.8	31.9	0.0	0.0	34.1	34.1	110.3	114.3	0.0	0.0	3,977.0	3,805.1	18.7	15.6	51.5	47.5	51.5	47.5
Indiana	1,889.7	1,739.7	131.9	94.1	0.0	0.0	60.4	60.4	74.5	74.8	0.0	0.0	2,156.5	1,969.0	12.3	7.8	144.2	101.9	144.2	101.9
Michigan	1,360.1	1,360.1	6.9	1.0	0.0	0.0	330.9	333.1	560.5	453.5	0.0	0.0	2,258.4	2,147.7	29.0	25.9	35.9	26.9	35.9	26.9
Ohio	433.1	424.1	42.7	37.6	0.0	0.0	101.9	101.9	137.9	153.4	0.0	0.0	715.6	717.0	65.5	56.3	108.2	93.9	108.2	93.9
Wisconsin	331.4	331.7	1.0	1.0	0.0	0.0	383.0	388.7	385.1	436.1	0.0	0.0	1,100.5	1,157.5	22.4	18.3	23.4	19.3	23.4	19.3
West North Central	17,707.6	15,311.5	16.5	10.4	0.0	0.0	3,278.1	3,300.8	550.9	516.8	0.0	0.0	21,553.1	19,139.5	157.1	129.6	173.6	140.0	173.6	140.0
Iowa	6,181.1	5,580.2	0.0	0.0	0.0	0.0	144.9	144.9	23.2	20.4	0.0	0.0	6,349.2	5,745.5	27.7	22.3	27.7	22.3	27.7	22.3
Kansas	3,846.7	2,968.9	1.0	1.0	0.0	0.0	7.0	7.0	9.0	15.0	0.0	0.0	3,863.7	2,991.9	3.7	2.5	4.7	3.5	4.7	3.5
Minnesota	3,240.7	2,787.8	4.0	1.7	0.0	0.0	194.6	195.0	476.7	439.4	0.0	0.0	3,916.0	3,423.9	21.6	16.3	25.6	18.0	25.6	18.0
Missouri	458.5	458.5	11.5	7.7	0.0	0.0	545.7	568.1	16.5	16.5	0.0	0.0	1,032.2	1,050.8	102.5	87.1	114.0	94.8	114.0	94.8
Nebraska	921.1	811.9	0.0	0.0	0.0	0.0	277.9	277.8	15.7	15.7	0.0	0.0	1,214.7	1,105.4	NM	0.8	NM	0.8	NM	0.8
North Dakota	2,221.7	1,964.2	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	2,741.5	2,484.0	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	740.0	0.0	0.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	2,435.8	2,338.0	0.4	0.3	0.4	0.3	0.4	0.3
South Atlantic	775.3	745.3	2,131.4	977.4	0.0	0.0	7,251.7	7,198.0	4,171.7	4,144.8	0.0	0.0	14,330.1	13,065.5	720.9	448.1	2,852.3	1,425.5	2,852.3	1,425.5
Delaware	2.0	2.0	30.7	30.7	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	44.9	44.9	56.4	40.1	87.1	70.8	87.1	70.8
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	12.0	0.0	23.8	16.6	23.8	16.6	23.8	16.6
Florida	0.0	0.0	87.8	72.9	0.0	0.0	54.5	54.5	1,288.6	1,189.5	0.0	0.0	1,430.9	1,316.9	117.8	84.0	205.6	156.9	205.6	156.9
Georgia	0.0	0.0	292.6	68.6	0.0	0.0	2,047.5	2,047.6	895.8	843.1	0.0	0.0	3,235.9	2,959.3	NM	50.9	NM	119.5	NM	119.5
Maryland	190.0	160.0	81.2	63.6	0.0	0.0	590.0	590.0	142.0	145.1	0.0	0.0	1,003.2	958.7	348.6	169.4	429.8	233.0	429.8	233.0
North Carolina	0.0	0.0	1,633.6	739.1	0.0	0.0	2,004.1	1,999.1	487.5	631.8	0.0	0.0	4,125.2	3,370.0	76.0	64.2	1,709.6	803.3	1,709.6	803.3
South Carolina	0.0	0.0	2.5	2.5	0.0	0.0	1,345.1	1,340.3	440.6	436.7	0.0	0.0	1,788.2	1,779.5	13.7	3.5	16.2	6.0	16.2	6.0
Virginia	0.0	0.0	3.0	0.0	0.0	0.0	866.0	866.0	890.8	884.2	0.0	0.0	1,759.8	1,750.2	25.5	16.8	28.5	16.8	28.5	16.8
West Virginia	583.3	583.3	0.0	0.0	0.0	0.0	344.5	300.5	2.2	2.2	0.0	0.0	930.0	886.0	3.6	2.6	3.6	2.6	3.6	2.6
East South Central	29.1	29.1	55.2	45.2	0.0	0.0	6,890.5	6,724.9	1,204.5	1,157.1	0.0	0.0	8,179.3	7,956.3	50.0	48.9	105.2	94.1	105.2	94.1
Alabama	0.0	0.0	0.0	0.0	0.0	0.0	3,271.0	3,271.0	663.9	615.9	0.0	0.0	3,934.9	3,886.9	2.0	1.9	2.0	1.9	2.0	1.9
Kentucky	0.0	0.0	10.0	0.0	0.0	0.0	1,000.9	835.3	69.7	70.3	0.0	0.0	1,080.6	905.6	9.8	8.5	19.8	8.5	19.8	8.5
Mississippi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	274.7	274.7	1.2	1.4	1.2	1.4	1.2	1.4
Tennessee	29.1	29.1	45.2	45.2	0.0	0.0	2,618.6	2,618.6	196.2	196.2	0.0	0.0	2,889.1	2,889.1	37.1	37.1	82.3	82.3	82.3	82.3
West South Central	23,309.1	19,359.4	330.4	185.7	0.0	0.0	2,986.5	3,049.6	1,328.0	1,326.6	0.0	0.0	27,954.0	23,921.3	284.8	188.9	615.2	374.6	615.2	374.6
Arkansas	0.0	0.0	12.0	0.0	0.0	0.0	1,266.2	1,323.6	312.4	308.4	0.0	0.0	1,590.6	1,632.0	4.2	3.2	16.2	3.2	16.2	3.2
Louisiana	0.0	0.0	0.0	0.0	0.0	0.0	192.0	192.0	450.1	450.1	0.0	0.0	642.1	642.1	115.8	81.4	115.8	81.4	115.8	81.4
Oklahoma	5,451.2	3,779.5	2.5	0.0	0.0	0.0	859.6	863.2	76.2	76.2	0.0	0.0	6,389.5	4,718.9	2.2	1.7	4.7	1.7	4.7	1.7
Texas	17,857.9	15,579.9	315.9	185.7	0.0	0.0	668.7	670.8	489.3	491.9	0.0	0.0	19,331.8	16,928.3	162.6	102.6	478.5	288.3	478.5	288.3
Mountain	7,901.4	7,096.8	2,864.5	2,190.0	473.9	363.9	10,561.7	10,560.8	176.4	178.2	544.8	528.5	22,522.7	20,918.2	1,297.0	990.3	4,161.5	3,180.3	4,635.4	3,544.2
Arizona	267.3	237.3	1,243.1	1,118.3	295.4	295.4	2,720.9	2,720.9	30.7</											

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, May 2016 and 2015 (Megawatts)

Census Division and State	Natural Gas Fired Combined Cycle		Natural Gas Fired Combustion Turbine		Other Natural Gas		Coal		Petroleum Coke		Petroleum Liquids		Other Gases		Total Fossil Fuels	
	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015	May 2016	May 2015
New England	11,893.0	11,785.4	1,118.4	1,110.1	641.5	961.2	1,988.3	2,076.8	0.0	0.0	7,115.4	6,906.7	0.0	0.0	22,756.6	22,840.2
Connecticut	2,547.5	2,504.6	482.2	482.2	416.6	64.7	383.4	383.4	0.0	0.0	2,479.5	2,831.9	0.0	0.0	6,309.2	6,266.8
Maine	1,250.0	1,250.0	297.1	297.2	14.5	119.0	0.0	85.0	0.0	0.0	880.9	893.8	0.0	0.0	2,442.5	2,645.0
Massachusetts	5,098.6	5,067.6	335.3	326.9	198.0	765.1	1,071.0	1,074.5	0.0	0.0	3,140.1	2,566.3	0.0	0.0	9,843.0	9,800.4
New Hampshire	1,235.2	1,231.0	3.8	3.8	0.0	0.0	533.9	533.9	0.0	0.0	498.0	498.0	0.0	0.0	2,270.9	2,266.7
Rhode Island	1,761.7	1,732.2	0.0	0.0	12.4	12.4	0.0	0.0	0.0	0.0	17.2	17.2	0.0	0.0	1,791.3	1,761.8
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.5	0.0	0.0	99.7	99.5
Middle Atlantic	24,637.3	23,342.8	7,599.7	8,647.3	13,512.8	11,070.7	16,308.0	18,426.3	78.6	11.6	5,383.1	7,239.5	123.8	100.4	67,643.3	68,838.6
New Jersey	8,005.1	6,627.2	2,817.1	3,897.5	1,109.2	514.6	1,245.0	1,870.0	11.6	11.6	273.7	914.5	23.4	0.0	13,485.1	13,835.4
New York	8,095.7	8,252.6	3,105.2	3,072.4	9,522.0	8,760.5	1,749.6	2,489.9	0.0	0.0	3,484.1	3,945.3	0.0	0.0	25,956.6	26,520.7
Pennsylvania	8,536.5	8,463.0	1,677.4	1,677.4	2,881.6	1,795.6	13,313.4	14,066.4	67.0	0.0	1,625.3	2,379.7	100.4	100.4	28,201.6	28,482.5
East North Central	17,005.2	17,025.5	25,538.7	25,652.9	3,837.0	3,474.6	63,094.2	68,148.3	317.6	521.6	2,707.4	2,730.8	1,143.1	934.7	113,643.2	118,488.4
Illinois	3,543.0	3,543.0	10,164.4	10,183.3	278.2	233.0	14,644.6	15,254.1	0.0	0.0	680.3	682.2	117.7	117.7	29,428.2	30,013.3
Indiana	2,480.2	2,480.2	3,127.6	3,142.6	641.7	76.0	16,175.8	18,389.0	70.0	274.0	270.3	273.3	588.3	599.9	23,353.9	25,235.0
Michigan	4,296.5	4,292.5	3,456.9	3,543.8	2,465.8	2,849.1	9,712.5	10,848.4	47.2	47.2	513.5	525.0	250.0	0.0	20,742.4	22,106.0
Ohio	4,044.6	4,044.6	5,427.7	5,427.7	131.4	131.4	15,189.9	15,727.5	142.0	142.0	645.9	652.9	187.1	217.1	25,768.6	26,343.2
Wisconsin	2,640.9	2,665.2	3,362.1	3,355.5	319.9	185.1	7,371.4	7,929.3	58.4	58.4	597.4	597.4	0.0	0.0	14,350.1	14,790.9
West North Central	6,034.9	5,751.8	11,393.8	11,505.8	3,801.6	3,350.4	35,426.8	37,134.3	32.0	32.0	4,098.0	4,077.0	8.4	8.4	60,795.5	61,859.7
Iowa	1,125.8	1,131.0	1,105.6	1,104.4	535.4	344.2	5,719.1	6,444.1	32.0	32.0	1,014.6	1,000.2	0.0	0.0	9,532.5	10,055.9
Kansas	266.0	0.0	2,184.8	2,336.8	2,054.5	2,088.0	4,687.2	5,047.1	0.0	0.0	538.9	538.9	0.0	0.0	9,731.4	10,010.8
Minnesota	2,173.2	2,158.2	2,534.1	2,533.7	353.8	271.4	4,300.1	4,478.0	0.0	0.0	799.4	797.9	0.0	0.0	10,160.6	10,239.2
Missouri	1,837.3	1,830.0	3,395.2	3,355.4	349.9	230.8	12,102.0	12,337.6	0.0	0.0	1,144.7	1,139.7	0.0	0.0	18,829.1	18,893.5
Nebraska	342.6	342.6	1,151.5	1,152.9	499.3	407.3	3,929.0	4,167.9	0.0	0.0	313.7	313.7	0.0	0.0	6,236.1	6,384.4
North Dakota	0.0	0.0	328.0	328.0	0.0	0.0	4,214.4	4,184.6	0.0	0.0	64.7	64.6	8.4	8.4	4,615.5	4,585.6
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	475.0	475.0	0.0	0.0	222.0	222.0	0.0	0.0	1,690.3	1,690.3
South Atlantic	51,253.3	47,515.3	31,112.1	31,852.2	6,986.7	6,427.6	58,557.8	60,304.6	83.8	669.8	11,844.4	12,746.2	135.0	135.0	159,973.1	159,650.7
Delaware	1,512.0	1,196.0	314.0	311.0	876.0	876.0	410.0	410.0	0.0	0.0	114.1	114.4	135.0	135.0	3,361.1	3,042.4
District of Columbia	0.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
Florida	27,505.6	25,545.6	7,480.4	8,400.0	3,034.7	2,736.3	10,234.0	10,085.0	0.0	586.0	5,844.9	6,563.9	0.0	0.0	54,099.6	53,916.8
Georgia	7,953.2	7,961.8	7,857.0	7,823.4	778.2	470.0	9,519.7	10,116.4	83.8	83.8	999.0	998.7	0.0	0.0	27,190.9	27,454.1
Maryland	250.0	250.0	1,581.0	1,471.1	1,415.8	1,489.8	4,712.0	4,722.0	0.0	0.0	1,597.9	1,650.5	0.0	0.0	9,556.7	9,583.4
North Carolina	4,766.0	4,738.5	6,049.7	6,031.7	0.0	0.0	10,802.8	10,800.8	0.0	0.0	402.8	402.4	0.0	0.0	22,021.3	21,973.4
South Carolina	2,409.0	2,409.0	2,855.6	2,855.6	296.0	270.8	5,547.0	5,575.5	0.0	0.0	525.4	661.4	0.0	0.0	11,633.0	11,772.3
Virginia	6,857.5	5,414.4	3,894.1	3,879.1	586.0	584.7	4,251.3	4,921.3	0.0	0.0	2,349.3	2,343.9	0.0	0.0	17,938.2	17,143.4
West Virginia	0.0	0.0	1,071.3	1,071.3	0.0	0.0	13,081.0	13,673.6	0.0	0.0	11.0	11.0	0.0	0.0	14,163.3	14,755.9
East South Central	19,040.8	18,380.4	13,003.3	12,887.5	4,017.0	2,744.1	30,572.4	34,913.7	0.0	0.0	152.0	150.8	99.8	99.8	66,885.3	69,176.3
Alabama	9,397.8	9,391.3	2,530.6	2,530.6	506.3	189.3	8,582.4	10,539.4	0.0	0.0	42.6	42.6	99.8	99.8	21,159.5	22,793.0
Kentucky	663.3	0.0	4,976.6	4,870.6	260.0	0.0	13,092.7	14,000.7	0.0	0.0	11.9	11.9	0.0	0.0	19,004.5	18,883.2
Mississippi	7,576.7	7,586.1	1,718.9	1,716.9	3,247.5	2,533.6	1,820.0	2,526.0	0.0	0.0	44.3	43.1	0.0	0.0	14,407.4	14,405.7
Tennessee	1,403.0	1,403.0	3,777.2	3,769.4	3.2	21.2	7,077.3	7,847.6	0.0	0.0	53.2	53.2	0.0	0.0	12,313.9	13,094.4
West South Central	59,007.1	59,504.5	13,287.9	12,585.8	35,020.6	36,052.4	36,432.5	37,929.9	959.3	903.2	181.3	185.4	659.8	330.8	145,548.5	147,492.0
Arkansas	4,602.9	4,597.3	725.8	725.8	816.3	810.7	5,122.4	5,124.5	0.0	0.0	12.2	12.2	0.0	0.0	11,279.6	11,270.5
Louisiana	7,557.4	7,548.1	2,358.1	2,649.8	9,162.8	9,022.4	2,855.1	3,418.6	895.5	892.6	45.5	49.1	407.4	25.2	23,281.8	23,605.8
Oklahoma	6,720.2	7,216.1	1,292.2	1,316.7	5,222.1	5,381.1	4,866.5	5,257.3	0.0	0.0	74.4	74.4	0.0	0.0	18,175.4	19,245.6
Texas	40,126.6	40,143.0	8,911.8	7,893.5	19,819.4	20,838.2	23,588.5	24,129.5	63.8	10.6	49.2	49.7	252.4	305.6	92,811.7	93,370.1
Mountain	22,487.3	21,919.4	8,981.6	8,921.5	3,143.6	3,220.4	28,942.6	29,372.0	52.0	52.0	370.8	370.8	109.9	87.1	64,087.8	63,943.2
Arizona	9,866.7	9,868.7	2,367.6	2,367.6	1,147.6	1,177.6	5,910.0	6,170.0	0.0	0.0	90.5	90.5	0.0	0.0	19,382.4	19,674.4
Colorado	3,240.5	2,651.7	2,590.3	2,535.3	274.0	349.0	5,089.8	5,281.8	0.0	0.0	168.4	168.4	0.0	0.0	11,363.0	10,986.2
Idaho	568.5	568.5	562.1	557.5	4.3	4.3	17.2	17.2	0.0	0.0	5.4	5.4	0.0	0.0	1,157.5	1,152.9
Montana	0.0	0.0	321.6	362.1	72.2	54.0	2,293.1	2,293.1	52.0	52.0	0.0	0.0	1.5	1.5	2,740.4	2,762.7
Nevada	5,418.6	5,418.6	1,385.6	1,385.6	451.1	451.1	997.4	997.4	0.0	0.0	6.0	6.0	0.0	0.0	8,258.7	8,258.7
New Mexico	1,469.0	1,487.9	1,080.6	1,039.6	849.4	849.4	3,471.0	3,471.0	0.0	0.0	66.9	66.9	0.0	0.0	6,936.9	6,914.8
Utah	1,830.0	1,830.0	520.2	520.2	330.4	322.4	4,754.0	4,754.0	0.0	0.0	27.8	27.8	0.0	0.0	7,462.4	7,454.4
Wyoming	94.0	94.0	153.6	153.6	14.6	12.6	6,410.1	6,387.5	0.0	0.0	5.8	5.8	108.4	85.6	6,786.5	6,739.1
Pacific Contiguous	25,141.4	25,309.9	11,457.1	11,372.8	11,890.1	12,628.8	2,015.0	2,015.0	17.0	0.0	422.3	410.7	209.3	211.7	51,152.2	51,948.9
California	19,561.3	19,624.4	10,561.9	10,597.8	11,638.1	12,377.0	90.0	90.0	17.0	0.0	407.1	395.5	209.3	211.7	42,484.7	43,296.4
Oregon	2,916.6	2,916.6	133.8	133.8	224.4	224.2	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	3,859.8	3,859.6
Washington	2,663.5	2,768.9	761.4	641.2	27.6	27.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,807.7	4,792.9
Pacific Noncontiguous	418.0	561.2	654.3	527.8	175.0	175.0	333.8	286.1	0.0	0.0	2,569.9	2,575.4	9.6	6.4	4,160.6	4,131.9
Alaska	418.0	561.2	654.3	527.8	175.0	175.0	153.8	106.1	0.0	0.0	702.3	689.8	0.0	0.0	2,103.4	2,059.9
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,867.6	1,885.6	9.6	6.4	2,057.2	2,072.0
U.S. Total	236,918.3	231,096.2	124,146.9	125,063.7	83,025.9	80,105.2	273,671.4	290,607.0	1,540.3	2,190.2	34,844.6	37,393.3	2,498.7	1,914.3	756,646.1	768,369.9

Values are preliminary.

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of existing or planned capacity for some technologies such as solar photovoltaic generation.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2016

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2016	1	59247	Bearford Solar II LLC	IPP	Bearford Solar II	NC	59488	BEARF	4.9	Solar Photovoltaic	SUN	PV
2016	1	58562	Blueberry One, LLC	IPP	Blueberry One	NC	58605	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	1	59858	Chei Solar LLC	IPP	Chei Solar	NC	59508	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	1	7977	City of Hamilton - (OH)	Electric Utility	Meldahl Hydroelectric Project	KY	56872	2	35.0	Conventional Hydroelectric	WAT	HY
2016	1	59693	Cline Solar Farm LLC	IPP	Cline Solar Farm, LLC	NC	59929	NB007	4.9	Solar Photovoltaic	SUN	PV
2016	1	59692	Coats Solar Farm LLC	IPP	Coats Solar Farm, LLC	NC	59937	NB006	4.9	Solar Photovoltaic	SUN	PV
2016	1	5109	DTE Electric Company	Electric Utility	Greenwood Solar Farm	MI	60019	1	1.9	Solar Photovoltaic	SUN	PV
2016	1	57170	EDF Renewable Asset Holdings, Inc.	IPP	Milo Wind Project LLC	NM	59838	GEN1	50.0	Onshore Wind Turbine	WND	WT
2016	1	58873	Green Energy Team LLC	IPP	Biomass to Energy Facility, Kauai	HI	59035	MKA1	8.3	Other Waste Biomass	AB	ST
2016	1	59835	Green Farm Solar LLC	IPP	Green Farm	NC	59148	GREEN	5.0	Solar Photovoltaic	SUN	PV
2016	1	59853	Happy Solar LLC	IPP	Happy Solar	NC	59512	PV1	4.0	Solar Photovoltaic	SUN	PV
2016	1	9267	Hoosier Energy R E C, Inc	Electric Utility	New Castle Solar RES	IN	59981	PV1	1.1	Solar Photovoltaic	SUN	PV
2016	1	9324	Indiana Michigan Power Co	Electric Utility	Deer Creek PV	IN	59855	DCPV1	2.5	Solar Photovoltaic	SUN	PV
2016	1	59285	Innovative Solar 6, LLC	IPP	Innovative Solar 6	NC	59542	IS6	3.6	Solar Photovoltaic	SUN	PV
2016	1	59447	Innovative Solar 64, LLC	IPP	Innovative Solar 64	NC	59677	IS064	4.9	Solar Photovoltaic	SUN	PV
2016	1	59851	Jacob Solar LLC	IPP	Jacob Solar	NC	59503	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	1	58891	Jericho Power LLC	IPP	Jericho Power	NH	59070	WT 1	12.1	Onshore Wind Turbine	WND	WT
2016	1	59850	Kenneth Solar LLC	IPP	Kenneth Solar	NC	59507	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	1	58679	Kirkwall Holdings, LLC	IPP	Kirkwall Holdings	NC	58791	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	1	59245	Lanier Solar	IPP	Lanier Solar	NC	59486	LANIE	4.9	Solar Photovoltaic	SUN	PV
2016	1	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK7	41.9	Solar Photovoltaic	SUN	PV
2016	1	59691	Meadowbrook Solar Farm LLC	IPP	Meadowbrook Solar Farm	NC	59936	NB008	4.9	Solar Photovoltaic	SUN	PV
2016	1	12341	MidAmerican Energy Co	Electric Utility	Adams Wind	IA	59637	ADWF4	46.9	Onshore Wind Turbine	WND	WT
2016	1	59857	Murdock Solar LLC	IPP	Murdock Solar	NC	59509	PV1	4.0	Solar Photovoltaic	SUN	PV
2016	1	59262	NRG Solar Oasis, LLC	IPP	NRG Solar Oasis LLC	CA	59528	OASIS	20.0	Solar Photovoltaic	SUN	PV
2016	1	59899	OEE XVII, LLC	Commercial	Harpster Wind	OH	60126	H1	1.5	Onshore Wind Turbine	WND	WT
2016	1	56545	Pattern Operators LP	IPP	Fowler Ridge IV Wind Farm LLC	IN	59547	1	150.0	Onshore Wind Turbine	WND	WT
2016	1	59514	River Mountains Solar, LLC	IPP	River Mountains Solar	NV	59747	1	14.4	Solar Photovoltaic	SUN	PV
2016	1	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK4	35.7	Solar Photovoltaic	SUN	PV
2016	1	59836	Simons Solar Farm LLC	IPP	Simons Farm	NC	59149	SIMON	5.0	Solar Photovoltaic	SUN	PV
2016	1	58674	Sonne One, LLC	IPP	Sonne One	NC	58782	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	1	58661	Sustainable Power Group, LLC	IPP	SEPV 18	CA	59730	SPV18	2.0	Solar Photovoltaic	SUN	PV
2016	1	59412	Tarboro Solar LLC	IPP	Tarboro Solar	NC	59648	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	1	59690	Vance Solar Farm LLC	IPP	Vance Solar Farm, LLC	NC	59928	NB007	4.9	Solar Photovoltaic	SUN	PV
2016	1	56948	Waverly Wind Farm LLC	IPP	Waverly Wind Farm LLC	KS	57614	GEN1	199.0	Onshore Wind Turbine	WND	WT
2016	2	59841	70SM1 8ME LLC	IPP	Calipatria Solar Farm	CA	59088	GEN 1	20.0	Solar Photovoltaic	SUN	PV
2016	2	40577	American Mun Power-Ohio, Inc	Electric Utility	Willow Island Hydroelectric Plant	WV	57401	WIG2	22.0	Conventional Hydroelectric	WAT	HY
2016	2	7977	City of Hamilton - (OH)	Electric Utility	Meldahl Hydroelectric Project	KY	56872	1	35.0	Conventional Hydroelectric	WAT	HY
2016	2	10908	City of Lenox - (IA)	Electric Utility	Lenox	IA	1158	5	1.8	Petroleum Liquids	DFO	IC
2016	2	56769	Consolidated Edison Development Inc.	IPP	Corcoran Solar 3	CA	59900	C3CA	20.0	Solar Photovoltaic	SUN	PV
2016	2	57365	Consolidated Edison Solutions Inc	IPP	CES Cherry Hill Solar	NJ	60201	CHNJ	1.2	Solar Photovoltaic	SUN	PV
2016	2	59784	Innovative Solar 63, LLC	IPP	Innovative Solar 63, LLC	NC	60053	FLS1	4.9	Solar Photovoltaic	SUN	PV
2016	2	59937	Lemoore PV1, LLC	IPP	Lemoore 1	CA	60142	LEPV1	1.5	Solar Photovoltaic	SUN	PV
2016	2	59791	Lindberg Field Solar I LLC	IPP	Lindberg Field Solar	CA	60060	SDIA2	2.1	Solar Photovoltaic	SUN	PV
2016	2	59996	Long Farm 46 Solar, LLC	IPP	Long Farm 46 Solar, LLC	NC	60208	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	2	17470	PUD 1 of Snohomish County	Electric Utility	MESA 1	WA	60016	B	1.0	Batteries	MWH	BA
2016	2	57313	SolarCity Corporation	IPP	Onondaga County - Metro Water Board	NY	60097	PV1	1.0	Solar Photovoltaic	SUN	PV
2016	2	57313	SolarCity Corporation	IPP	Town of Needham VNEM	MA	60110	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	2	57313	SolarCity Corporation	IPP	Williamsburg Solar LLC VNEM	MA	60111	PV1	2.2	Solar Photovoltaic	SUN	PV
2016	2	17650	Southern Power Co	IPP	Butler Solar Farm 20	GA	59891	1	20.0	Solar Photovoltaic	SUN	PV
2016	2	17650	Southern Power Co	IPP	Stateline Solar	CA	58646	STL4	37.9	Solar Photovoltaic	SUN	PV
2016	2	59788	Steel Bridge Solar. LLC	IPP	Steel Bridge Solar, LLC	OR	60057	STEEL	2.3	Solar Photovoltaic	SUN	PV
2016	2	59885	UIL Distributed Resources, LLC	IPP	UDR Glastonbury Fuel Cell	CT	60109	UDRFC	2.5	Other Natural Gas	NG	FC
2016	2	59969	Whitethorn Solar LLC	IPP	Whitethorn Solar LLC	CA	60193	GEN1	3.3	Solar Photovoltaic	SUN	PV
2016	2	58984	Winton Solar LLC	IPP	Winton Solar	NC	59177	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	3	40577	American Mun Power-Ohio, Inc	Electric Utility	Cannelton Hydroelectric Plant	KY	57399	CG2	29.3	Conventional Hydroelectric	WAT	HY
2016	3	59789	Avalon Solar Partners II, LLC	IPP	Avalon Solar II	AZ	60062	ASII	16.0	Solar Photovoltaic	SUN	PV
2016	3	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK1	38.7	Solar Photovoltaic	SUN	PV
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	10	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	11	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	5	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	6	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	7	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	8	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	9	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	20069	City of Wamego - (KS)	Electric Utility	Wamego	KS	1328	10	2.9	Natural Gas Internal Combustion Engine	NG	IC
2016	3	6455	Duke Energy Florida, Inc	Electric Utility	Osceola Solar Facility	FL	59954	XXXXX	3.8	Solar Photovoltaic	SUN	PV
2016	3	3046	Duke Energy Progress - (NC)	Electric Utility	Elm City Solar Facility	NC	59164	NSC 1	17.6	Solar Photovoltaic	SUN	PV
2016	3	57249	EPP Renewable Energy	IPP	Nashua Plant	NH	55006	UNT3	1.5	Landfill Gas	LFG	IC
2016	3	59735	Enerparc CA2, LLC	IPP	Enerparc CA2, LLC	CA	59978	ECA22	1.5	Solar Photovoltaic	SUN	PV
2016	3	59402	Garysburg Solar LLC	IPP	Garysburg Solar	NC	59641	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	3	7353	Golden Valley Elec Assn Inc	Electric Utility	Healy	AK	6288	2	50.0	Conventional Steam Coal	LIG	ST
2016	3	59209	Half Moon Ventures, LLC	IPP	HMV Minster Energy Storage System	OH	60299	MIN02	7.0	Batteries	MWH	BA
2016	3	59971	Kenansville Solar 2 LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV1	0.5	Solar Photovoltaic	SUN	PV
2016	3	59971	Kenansville Solar 2 LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV2	0.5	Solar Photovoltaic	SUN	PV
2016	3	59971	Kenansville Solar 2 LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV3	0.5	Solar Photovoltaic	SUN	PV
2016	3	59971	Kenansville Solar 2 LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV4	0.5	Solar Photovoltaic	SUN	PV
2016	3	58773	Kingfisher Wind LLC	IPP	Kingfisher Wind LLC	OK	58902	KNG1	298.0	Onshore Wind Turbine	WND	WT
2016	3	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	1	41.9	Solar Photovoltaic	SUN	PV
2016	3	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN3	1.0	Natural Gas Internal Combustion Engine	NG	IC
2016	3	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN4	0.3	Natural Gas Internal Combustion Engine	NG	IC
2016	3	17650	Southern Power Co	IPP	Pawpaw Solar Plant	GA	59894	1	30.0	Solar Photovoltaic	SUN	PV
2016	3	59139	SunEdison LLC	IPP	SunE- E Philadelphia Ontario	CA	59916	12307	1.0	Solar Photovoltaic	SUN	PV
2016	3	58661	Sustainable Power Group, LLC	IPP	Latigo Wind Park	UT	59965	LTIGO	62.1	Onshore Wind Turbine	WND	WT
2016	3	19876	Virginia Electric & Power Co	Electric Utility	Philip Morris	VA	59911	1	2.0	Solar Photovoltaic	SUN	PV
2016	4	59912	Amethyst Solar LLC	IPP	Amethyst Solar	NC	58730	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	4	59910	Audrey Solar LLC	IPP	Audrey Solar	NC	58732	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 1	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 2	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 3	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 5	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 6	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 7	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 8	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 9	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN10	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN11	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN12	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN4	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN1	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN10	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN11	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN12	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN2	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN3	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN4	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN5	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN6	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN7	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN8	0.1	Conventional Hydroelectric	WAT	HY

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2016

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN9	0.1	Conventional Hydroelectric	WAT	HY
2016	4	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK2	36.3	Solar Photovoltaic	SUN	PV
2016	4	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK3	34.8	Solar Photovoltaic	SUN	PV
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN01	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN02	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN03	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN04	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN05	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN06	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN07	3.4	Landfill Gas	LFG	IC
2016	4	57260	CSOLAR IV West LLC	IPP	Imperial Solar Energy Center West	CA	57491	56819	148.7	Solar Photovoltaic	SUN	PV
2016	4	7977	City of Hamilton - (OH)	Electric Utility	Meldahl Hydroelectric Project	KY	56872	3	35.0	Conventional Hydroelectric	WAT	HY
2016	4	4254	Consumers Energy Co	Electric Utility	Grand Valley Solar Gardens	MI	60118	1	3.0	Solar Photovoltaic	SUN	PV
2016	4	59745	First Solar Asset Management	IPP	Kingbird A Solar LLC	CA	59868	GEN01	20.0	Solar Photovoltaic	SUN	PV
2016	4	59745	First Solar Asset Management	IPP	Kingbird B Solar, LLC	CA	60091	GEN01	20.0	Solar Photovoltaic	SUN	PV
2016	4	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5A	1,260.0	Natural Gas Fired Combined Cycle	NG	CT
2016	4	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5B		Natural Gas Fired Combined Cycle	NG	CT
2016	4	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5C		Natural Gas Fired Combined Cycle	NG	CT
2016	4	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5ST		Natural Gas Fired Combined Cycle	NG	CA
2016	4	59403	Gaston Solar LLC	IPP	Gaston Solar	NC	59642	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	4	59462	Heelstone Energy Holdings, LLC	IPP	Crestwood Solar Center LLC	NC	59914	CREST	5.0	Solar Photovoltaic	SUN	PV
2016	4	49893	Invenergy Services LLC	IPP	Prairie Breeze III	NE	60314	GEN1	35.8	Onshore Wind Turbine	WND	WT
2016	4	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK2	21.0	Solar Photovoltaic	SUN	PV
2016	4	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	10	9.2	Natural Gas Internal Combustion Engine	NG	IC
2016	4	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	11	9.2	Natural Gas Internal Combustion Engine	NG	IC
2016	4	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	12	9.2	Natural Gas Internal Combustion Engine	NG	IC
2016	4	59911	Milo Solar LLC	IPP	Milo Solar	NC	58739	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	4	59913	Minnie Solar LLC	IPP	Minnie Solar	NC	58740	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	4	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	2	9.1	Natural Gas Internal Combustion Engine	NG	IC
2016	4	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	3	9.1	Natural Gas Internal Combustion Engine	NG	IC
2016	4	59916	Owen Solar LLC	IPP	Owen Solar	NC	58742	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	1	1.6	Landfill Gas	LFG	IC
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	2	1.6	Landfill Gas	LFG	IC
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	3	1.6	Landfill Gas	LFG	IC
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	4	1.6	Landfill Gas	LFG	IC
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	5	1.6	Landfill Gas	LFG	IC
2016	4	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK5	35.0	Solar Photovoltaic	SUN	PV
2016	4	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK6	36.6	Solar Photovoltaic	SUN	PV
2016	4	57313	SolarCity Corporation	IPP	Genentech-Oceanside	CA	60231	PV1	4.5	Solar Photovoltaic	SUN	PV
2016	4	59914	Sophie Solar LLC	IPP	Sophie Solar	NC	58745	PV1	4.5	Solar Photovoltaic	SUN	PV
2016	4	17609	Southern California Edison Co	Electric Utility	Tehachapi Energy Storage Project	CA	59661	TSP1	8.0	Batteries	MVH	BA
2016	4	17650	Southern Power Co	IPP	Grant Wind, LLC	OK	60013	GRANT	151.8	Onshore Wind Turbine	WND	WT
2016	4	17650	Southern Power Co	IPP	Stateline Solar	CA	58646	STL6	37.9	Solar Photovoltaic	SUN	PV
2016	4	59915	Star Solar LLC	IPP	Star Solar	NC	58746	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	4	58661	Sustainable Power Group, LLC	Commercial	Southbridge Solar	MA	60278	SBRDG	1.9	Solar Photovoltaic	SUN	PV
2016	4	19497	United Illuminating Co	Electric Utility	UI RCP Bridgeport Seaside	CT	60054	BPPV	2.2	Solar Photovoltaic	SUN	PV
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT01	263.9	Natural Gas Fired Combined Cycle	NG	CT
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT02	263.9	Natural Gas Fired Combined Cycle	NG	CT
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT03	263.9	Natural Gas Fired Combined Cycle	NG	CT
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	ST01	579.4	Natural Gas Fired Combined Cycle	NG	CA
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Western Branch High School	VA	59904	1	1.0	Solar Photovoltaic	SUN	PV
2016	4	58982	Woodland Solar LLC	IPP	Woodland Solar	NC	59175	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	4	60059	ZGlobal Inc	IPP	Castor Solar	CA	60277	CASTR	1.5	Solar Photovoltaic	SUN	PV
2016	5	59359	BHE Renewables, LLC	IPP	Marshall Wind Farm	KS	59084	RPM4	73.8	Onshore Wind Turbine	WND	WT
2016	5	60157	Battleboro Farm, LLC	IPP	Battleboro Farm	NC	60369	BFPV	5.2	Solar Photovoltaic	SUN	PV
2016	5	58468	Dominion Renewable Energy	IPP	Marin Carport	CA	59703	1	1.0	Solar Photovoltaic	SUN	PV
2016	5	56215	E ON Climate Renewables N America LLC	IPP	Colbec's Corner, LLC	TX	59068	GVII	200.0	Onshore Wind Turbine	WND	WT
2016	5	58135	Ecos Energy LLC	IPP	Sudbury Solar	VT	60344	SUD	2.0	Solar Photovoltaic	SUN	PV
2016	5	5701	EI Paso Electric Co	Electric Utility	Montana Power Station	TX	58562	GT-3	100.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	5860	Empire District Electric Co	Electric Utility	Riverton	KS	1239	12-2	117.0	Natural Gas Fired Combined Cycle	NG	CA
2016	5	6452	Florida Power & Light Co	Electric Utility	Daytona International Speedway Solar	FL	60005	1	0.8	Solar Photovoltaic	SUN	PV
2016	5	6452	Florida Power & Light Co	Electric Utility	FIU Solar	FL	60006	1	0.8	Solar Photovoltaic	SUN	PV
2016	5	7349	Golden Spread Electric Cooperative, Inc	Electric Utility	Elk Station	TX	58835	ELK2	189.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	7349	Golden Spread Electric Cooperative, Inc	Electric Utility	Elk Station	TX	58835	ELK3	189.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	60187	Granger Energy of Morgantown	IPP	Granger Energy of Morgantown	PA	60388	GEMT	1.6	Landfill Gas	LFG	IC
2016	5	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	SOLAR	10.0	Solar Photovoltaic	SUN	PV
2016	5	56990	NJR Clean Energy Ventures Corporation	IPP	East Amwell	NJ	60327	AMWEL	1.8	Solar Photovoltaic	SUN	PV
2016	5	56990	NJR Clean Energy Ventures Corporation	IPP	Junction Road	NJ	60265	JUNCT	4.4	Solar Photovoltaic	SUN	PV
2016	5	56990	NJR Clean Energy Ventures Corporation	IPP	Sharon Station	NJ	60267	SHRN1	2.7	Solar Photovoltaic	SUN	PV
2016	5	59893	Northern Water Hydropower Enterprise	Commercial	Granby Hydro	CO	60119	GEN1	1.2	Conventional Hydroelectric	WAT	HY
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG1	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG10	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG2	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG3	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG4	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG5	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG6	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG7	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG8	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG9	0.6	Petroleum Liquids	DFO	IC
2016	5	59766	SR Jenkins, LLC	IPP	SR Jenkins Ft Lupton	CO	60023	FTLUP	13.0	Solar Photovoltaic	SUN	PV
2016	5	58544	Sierra Nevada Brewing Co	Industrial	Sierra Nevada Brewing Co	CA	58585	COGN	1.7	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK7	35.0	Solar Photovoltaic	SUN	PV
2016	5	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT1	8.3	Natural Gas Internal Combustion Engine	NG	IC
2016	5	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT2	8.3	Natural Gas Internal Combustion Engine	NG	IC
2016	5	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT3	8.3	Natural Gas Internal Combustion Engine	NG	IC
2016	5	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT4	8.3	Natural Gas Internal Combustion Engine	NG	IC
2016	5	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT5	8.3	Natural Gas Internal Combustion Engine	NG	IC
2016	5	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT6	8.3	Natural Gas Internal Combustion Engine	NG	IC
2016	5	60117	SunShare	IPP	Jeffco Community Solar Gardens, LLC	CO	60320	SSCO1	1.2	Solar Photovoltaic	SUN	PV
2016	5	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch C	CA	59963	CADRC	20.0	Solar Photovoltaic	SUN	PV
2016	5	59570	TWE Kelford Solar Project, LLC	IPP	Kelford	NC	59796	FLS1	4.7	Solar Photovoltaic	SUN	PV
2016	5	60067	Westside Assets LLC	IPP	Westside Solar Power PV1	CA	60275	WSPV1	2.0	Solar Photovoltaic	SUN	PV

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of capacity for some technologies such as solar photovoltaic generation.

Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.

Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2016

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2016	1	9231	City of Independence - (MO)	Electric Utility	Missouri City	MO	2171	1	19.0	Conventional Steam Coal	BIT	ST
2016	1	9231	City of Independence - (MO)	Electric Utility	Missouri City	MO	2171	2	19.0	Conventional Steam Coal	BIT	ST
2016	2	3900	City of Coggon - (IA)	Electric Utility	Coggon	IA	1132	IC1	0.6	Petroleum Liquids	DFO	IC
2016	2	11142	City of Logansport - (IN)	Electric Utility	Logansport	IN	1032	4	16.5	Conventional Steam Coal	BIT	ST
2016	2	11142	City of Logansport - (IN)	Electric Utility	Logansport	IN	1032	5	22.0	Conventional Steam Coal	BIT	ST
2016	2	11142	City of Logansport - (IN)	Electric Utility	Logansport	IN	1032	6	15.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	2	17872	City of St Francis - (KS)	Electric Utility	St Francis	KS	1321	3	0.8	Petroleum Liquids	DFO	IC
2016	2	4161	Constellation Power Source Gen	IPP	Perryman	MD	1556	GT2	51.0	Petroleum Liquids	DFO	GT
2016	3	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P1	10.0	Petroleum Liquids	DFO	GT
2016	3	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P2	10.0	Petroleum Liquids	DFO	GT
2016	3	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P4	59.0	Petroleum Liquids	DFO	GT
2016	3	7801	Gulf Power Co	Electric Utility	Lansing Smith	FL	643	1	162.0	Conventional Steam Coal	BIT	ST
2016	3	7801	Gulf Power Co	Electric Utility	Lansing Smith	FL	643	2	195.0	Conventional Steam Coal	BIT	ST
2016	3	13168	NRG Huntley Operations Inc	IPP	C R Huntley Generating Station	NY	2549	67	190.0	Conventional Steam Coal	SUB	ST
2016	3	13168	NRG Huntley Operations Inc	IPP	C R Huntley Generating Station	NY	2549	S68	190.0	Conventional Steam Coal	SUB	ST
2016	3	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	87.0	Conventional Steam Coal	SUB	ST
2016	4	4045	City of Columbia - (MO)	Electric Utility	Columbia (MO)	MO	2123	5	16.5	Conventional Steam Coal	BIT	ST
2016	4	4254	Consumers Energy Co	Electric Utility	B C Cobb	MI	1695	4	156.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	B C Cobb	MI	1695	5	156.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J C Weadock	MI	1720	7	152.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J C Weadock	MI	1720	8	151.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	1	102.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	2	95.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	3	122.0	Conventional Steam Coal	SUB	ST
2016	4	5109	DTE Electric Company	Electric Utility	Trenton Channel	MI	1745	7	110.0	Conventional Steam Coal	SUB	ST
2016	4	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	2	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	3	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	4	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	5	95.0	Conventional Steam Coal	BIT	ST
2016	4	5580	East Kentucky Power Coop, Inc	Electric Utility	Dale	KY	1385	3	74.0	Conventional Steam Coal	BIT	ST
2016	4	5580	East Kentucky Power Coop, Inc	Electric Utility	Dale	KY	1385	4	75.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	3	40.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	4	56.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	5	62.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	6	99.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	IC1	3.0	Petroleum Liquids	DFO	IC
2016	4	12341	MidAmerican Energy Co	Electric Utility	George Neal North	IA	1091	1	134.3	Conventional Steam Coal	SUB	ST
2016	4	12341	MidAmerican Energy Co	Electric Utility	George Neal North	IA	1091	2	283.7	Conventional Steam Coal	SUB	ST
2016	4	26840	Port Townsend Paper Co	Industrial	Port Townsend Paper	WA	50544	GEN4	3.0	Wood/Wood Waste Biomass	BLQ	ST
2016	4	15474	Public Service Co of Oklahoma	Electric Utility	Northeastern	OK	2963	4	460.0	Conventional Steam Coal	SUB	ST
2016	4	17698	Southwestern Electric Power Co	Electric Utility	Welsh	TX	6139	2	528.0	Conventional Steam Coal	SUB	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	1	178.0	Conventional Steam Coal	BIT	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	2	178.0	Conventional Steam Coal	BIT	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	3	178.0	Conventional Steam Coal	BIT	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	4	178.0	Conventional Steam Coal	BIT	ST
2016	4	20847	Wisconsin Electric Power Co	Electric Utility	Milwaukee County	WI	7549	1	7.0	Conventional Steam Coal	SUB	ST
2016	5	4161	Constellation Power Source Gen	IPP	Riverside (MD)	MD	1559	4	74.0	Natural Gas Steam Turbine	NG	ST
2016	5	5517	Dynegy Midwest Generation Inc	IPP	Wood River	IL	898	4	89.5	Conventional Steam Coal	SUB	ST
2016	5	5517	Dynegy Midwest Generation Inc	IPP	Wood River	IL	898	5	375.5	Conventional Steam Coal	SUB	ST
2016	5	12807	Michigan South Central Pwr Agy	Electric Utility	Endicott Station	MI	4259	1	55.0	Conventional Steam Coal	BIT	ST
2016	5	14165	NRG Power Midwest LP	IPP	Avon Lake	OH	2836	7	70.0	Conventional Steam Coal	BIT	ST
2016	5	56217	Portsmouth Operating Services LLC	IPP	Portsmouth Genco LLC	VA	10071	GEN1	57.5	Conventional Steam Coal	BIT	ST
2016	5	56217	Portsmouth Operating Services LLC	IPP	Portsmouth Genco LLC	VA	10071	GEN2	57.5	Conventional Steam Coal	BIT	ST
2016	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	IC1	2.0	Petroleum Liquids	DFO	IC
2016	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	IC2	2.0	Petroleum Liquids	DFO	IC
2016	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	IC3	2.0	Petroleum Liquids	DFO	IC
2016	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	IC4	2.0	Petroleum Liquids	DFO	IC
2016	5	7726	Sharp Grossmont Hospital	Commercial	Grossmont Hospital	CA	10115	GEN1	0.8	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	7726	Sharp Grossmont Hospital	Commercial	Grossmont Hospital	CA	10115	GEN2	0.8	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	40211	Wabash Valley Power Assn, Inc	Electric Utility	Wabash Valley Power IGCC	IN	57842	1	85.0	Petroleum Coke	SGP	CA

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of capacity for some technologies such as solar photovoltaic generation.

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Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	6	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	5A	0.8	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.8
2016	6	40577	American Mun Power-Ohio, Inc	Electric Utility	Cannelton Hydroelectric Plant	KY	57399	CG3	29.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	29.3
2016	6	772	Archer Daniels Midland Co	Industrial	Archer Daniels Midland Cedar Rapids	IA	10864	GEN7	35.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	38.5
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	4.4
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	4.4
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	4.4
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	4.4
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	4.4
2016	6	14534	City of Pasadena - (CA)	Electric Utility	Glenarm	CA	422	GT5	68.0	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	71.0
2016	6	57365	Consolidated Edison Solutions Inc	IPP	Future Generation Wind	MA	59622	FGMA	7.9	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	8.0
2016	6	57044	Constellation Solar New Jersey, LLC	IPP	NHA at Mansfield NJ	NJ	60378	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	6	58695	Coronal Development Services	IPP	Holdrege Solar Center	NE	59713	HDSC	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2016	6	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	SEG	1.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2016	6	59765	Eight Flags Energy LLC	Electric CHP	Eight Flags Energy	FL	60025	01	19.8	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	21.0
2016	6	59745	First Solar Asset Management	IPP	Rancho Seco Solar, LLC	CA	60226	GEN01	10.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.8
2016	6	59263	Fresh Air Energy XVII, LLC	IPP	Meadows PV 1	NC	59513	MEAD1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	6	59776	Frontier Solar, LLC	IPP	Frontier Solar LLC	CA	60039	FTRS	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2016	6	57104	Golden Springs Development Company LLC	IPP	Freeway Springs	CA	60183	FSPR1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	6	9273	Indianapolis Power & Light Co	Electric Utility	Harding Street	IN	990	BAT1	20.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	20.0
2016	6	59441	Innovative Solar 46, LLC	IPP	Innovative Solar 46	NC	59671	IS046	78.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	78.5
2016	6	59897	LKL Goldfinch, LLC	IPP	Goldfinch	FL	60124	GFNCH	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2016	6	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	4	214.4	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	216.9
2016	6	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	5	107.2	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	118.9
2016	6	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	6	105.8	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	106.9
2016	6	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	7	105.8	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	106.9
2016	6	59120	Los Vientos Windpower IV, LLC	IPP	Los Vientos Windpower IV	TX	59321	GEN1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2016	6	26253	Louisiana Energy & Power Authority	Electric Utility	LEPA Unit No. 1	LA	58478	LEPA1	59.0	Natural Gas Fired Combined Cycle	NG	CC	(TS) Construction complete, but not yet in commercial operation	64.0
2016	6	58451	McCoy Solar LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK3	39.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	39.5
2016	6	12397	Metropolitan Water District of S CA	Electric Utility	Weymouth Solar Plant	CA	60255	1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	6	12397	Metropolitan Water District of S CA	Electric Utility	Weymouth Solar Plant	CA	60255	2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2016	6	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF2	40.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.4
2016	6	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF	14.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	14.4
2016	6	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF2	33.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.7
2016	6	60145	NRG Solar Las Vegas MB 2	IPP	NRG Solar Las Vegas MB 2, LLC	NV	60350	LVMB2	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2016	6	60048	PHR Holdings LLC	IPP	Cielo Lindo	TX	60264	CLGT1	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2016	6	60048	PHR Holdings LLC	IPP	Cielo Lindo	TX	60264	CLGT2	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2016	6	60048	PHR Holdings LLC	IPP	Cielo Lindo	TX	60264	CLGT3	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2016	6	60048	PHR Holdings LLC	IPP	Cielo Lindo	TX	60264	CLGT4	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2016	6	60048	PHR Holdings LLC	IPP	Cielo Lindo	TX	60264	CLGT5	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2016	6	60048	PHR Holdings LLC	IPP	Cielo Lindo	TX	60264	CLGT6	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2016	6	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CC	(TS) Construction complete, but not yet in commercial operation	435.0
2016	6	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CC	(TS) Construction complete, but not yet in commercial operation	435.0
2016	6	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	435.0
2016	6	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	435.0
2016	6	60068	Red Horse III	IPP	Red Horse III	AZ	60285	RH3	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2016	6	16179	Rochele Municipal Utilities	Electric Utility	South Main Street	IL	961	16	1.8	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.8
2016	6	16179	Rochele Municipal Utilities	Electric Utility	South Main Street	IL	961	17	1.8	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.8
2016	6	16179	Rochele Municipal Utilities	Electric Utility	South Main Street	IL	961	18	1.8	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.8
2016	6	59451	Seaboard Solar LLC	IPP	Seaboard Solar LLC	NC	59643	SMWVJ	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	6	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	59644	BLK9	16.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.2
2016	6	57313	SolarCity Corporation	IPP	Hewlett-Packard (HP) - Andover, MA	MA	60099	PV1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2016	6	59837	South Plains Wind Energy II, LLC	IPP	South Plains II	TX	60087	SP11	300.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	300.0
2016	6	58661	Sustainable Power Group, LLC	IPP	Leavenworth Greenworks LLC	NY	59276	LEAVG	9.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.5
2016	6	58661	Sustainable Power Group, LLC	IPP	SEPV Mojave West	CA	59740	SPVMW	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2016	6	58661	Sustainable Power Group, LLC	IPP	Summer Solar LLC	CA	60280	SUMSL	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	6	18642	Tennessee Valley Authority	Electric Utility	Watts Bar Nuclear Plant	TN	7722	2	1,122.0	Nuclear	NUC	ST	(TS) Construction complete, but not yet in commercial operation	1,269.9
2016	6	59116	WED Coventry Five, LLC	IPP	WED Coventry 5	RI	59313	COV5	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	6	59108	WED Coventry Four, LLC	IPP	WED Coventry 4	RI	59306	WEDC4	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	6	59105	WED Coventry One, LLC	IPP	WED Coventry 1	RI	59301	WEDC1	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	6	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	6	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6A	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	6	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6B	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	6	59107	WED Coventry Three, LLC	IPP	WED Coventry 3	RI	59305	WEDC3	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	6	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	6	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2A	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	6	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2B	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-1	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-2	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-3	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-4	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-5	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-6	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-7	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-8	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-9	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV10	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-1	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-2	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-3	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	20910	Wolverine Power Supply Coop	Electric Utility	Alpine Power Plant	MI	59926	A11	202.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	226.9
2016	6	20910	Wolverine Power Supply Coop	Electric Utility	Alpine Power Plant	MI	59926	A12	202.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	226.9
2016	7	59273	625K time, LLC	IPP	Springbok Solar Farm 1	CA	59532	SB1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2016	7	59616	635U 8me, LLC	IPP	Springbok Solar Farm 2	CA	59840	SB2	155.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	155.0
2016	7	59050	Algonquin Power Co	IPP	Odell Wind Farm	MN	58657	1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2016	7	59843	Bythe Solar II, LLC	IPP	Bythe Solar II, LLC	CA	60092	BLCK4	33.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	33.2
2016	7	60136	Boulder Solar Power, LLC	IPP	Boulder Solar Power, LLC	NV	60352	BSP	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2016	7	58695	Coronal Development Services	IPP	Mariposa Solar Center LLC	NC	59162	MSC 1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	7	58468	Dominion Renewable Energy	IPP	Enterprise Solar, LLC	UT	59386	ENTS1	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	7	58468	Dominion Renewable Energy	IPP	Escalante Solar III, LLC	UT	59389	ESCS3	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	7	6455	Duke Energy Florida, Inc	Electric Utility	Perry Solar Facility	FL	60071	XXXXX	5.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less	

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	7	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B4	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	7	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B5	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	7	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B6	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	7	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Greenwood (MO)	MO	6074	5	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2016	7	60214	Maxton Solar, LLC	IPP	Maxton Solar, LLC	NC	60416	MSPV	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2016	7	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF	18.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	18.0
2016	7	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF3	40.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.4
2016	7	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF3	33.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.7
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J16	0.9	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.9
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U4J16	1.2	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.4
2016	7	56990	NJR Clean Energy Ventures Corporation	IPP	Cedar Branch	NJ	60266	CEDAR	5.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.9
2016	7	13511	New York State Elec & Gas Corp	Electric Utility	Harris Lake	NY	2528	2	2.3	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.5
2016	7	58489	OCI Solar Power	IPP	OCI Alamo 6 LLC	TX	59206	OCIA6	105.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	105.0
2016	7	58589	Orbit Energy Charlotte	IPP	Orbit Energy Charlotte	NC	58638	1	5.2	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	5.2
2016	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	6A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2016	7	15248	Portland General Electric Co	Electric Utility	Carly Generating Station	OR	58503	GEN1	300.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	300.0
2016	7	15248	Portland General Electric Co	Electric Utility	Carly Generating Station	OR	58503	GEN2	200.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	200.0
2016	7	40307	Prairie Power, Inc	Electric Utility	Askey	IL	7818	6	42.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	48.0
2016	7	60191	RE Barren Ridge 1, LLC	IPP	RE Barren Ridge 1	CA	60389	REBR1	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	62.0
2016	7	58968	RE Mustang LLC	IPP	RE Mustang LLC	CA	59150	PV1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2016	7	57313	SolarCity Corporation	IPP	BJ's Wholesale Club, Inc.-Burlington, NJ	NJ	60227	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2016	7	57313	SolarCity Corporation	IPP	Jackson Board of Education-Liberty HS	NJ	60113	PV1	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2016	7	57313	SolarCity Corporation	IPP	Maricopa County Community Colleges- Estr	AZ	60230	PV1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2016	7	57313	SolarCity Corporation	IPP	Orange County Solar Farm (NY)	NY	60229	PV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2016	7	57313	SolarCity Corporation	IPP	Oregon Convention Center	OR	60112	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2016	7	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG01	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	7	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG02	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	7	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG03	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	7	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG04	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	7	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG05	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	7	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG06	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	7	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG07	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	7	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG08	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	7	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG09	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	7	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG10	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	7	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG11	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	7	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG12	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	7	17650	Saltwater Utilities Authority	IPP	Saltwater Solar	CA	58646	STL7	37.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	37.9
2016	7	18125	Saltwater Utilities Authority	Electric Utility	Saltwater Energy Center	OK	59647	1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2016	7	18125	Saltwater Utilities Authority	Electric Utility	Saltwater Energy Center	OK	59647	2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2016	7	18125	Saltwater Utilities Authority	Electric Utility	Saltwater Energy Center	OK	59647	3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2016	7	60216	Sullivan Solar, LLC	IPP	Sullivan Solar, LLC	IN	60410	SULPV	5.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.2
2016	7	58661	Sustainable Power Group, LLC	IPP	Elevation Solar C	CA	59964	ELVSC	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2016	7	59963	TWE New Bern Solar Project, LLC	IPP	TWE New Bern Solar Project, LLC	NC	60191	FLS1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2016	7	59598	Tooele Army Depot	IPP	Tooele Wind Turbine	UT	59817	GEN03	1.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.7
2016	7	19876	Virginia Electric & Power Co	Electric Utility	Merck	VA	59905	1	2.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.1
2016	7	59831	White Oak Solar, LLC	IPP	White Oak Solar, LLC	GA	60082	WHTOK	76.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	76.5
2016	7	59803	White Pine Solar, LLC	IPP	White Pine Solar, LLC	GA	60064	WHTPN	101.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	101.2
2016	7	20947	Wisconsin Electric Power Co	Electric Utility	Twin Falls (WI)	WI	59836	11	4.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	4.6
2016	7	20947	Wisconsin Electric Power Co	Electric Utility	Twin Falls (WI)	WI	59836	12	4.6	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	4.6
2016	8	57369	Apple, Inc	Industrial	Apple Campus 2 Fuel Cell	CA	59557	AC2FC	4.0	Other Waste Biomass	OBG	FC	(U) Under construction, less than or equal to 50 percent complete	4.0
2016	8	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK5	33.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	33.9
2016	8	59903	Candace Solar LLC	IPP	Candace Solar	NC	59499	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	8	17845	City of Springville - (UT)	Electric Utility	Whitehead	UT	7028	K6CAT	2.5	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	2.5
2016	8	17845	City of Springville - (UT)	Electric Utility	Whitehead	UT	7028	K7CAT	2.5	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	2.5
2016	8	59938	Cohen Farm Solar, LLC	IPP	Cohen Farm Solar, LLC	NC	60146	FLS1	6.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	6.5
2016	8	59429	Comanche LLC	IPP	Comanche Solar	CO	59656	COMCH	120.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	120.0
2016	8	56769	Consolidated Edison Development Inc.	IPP	CED Westfield Solar, LLC	MA	60274	WFMA	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	8	56769	Consolidated Edison Development Inc.	IPP	OCI Alamo 7 LLC	TX	59207	OCIA7	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2016	8	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV01	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.1
2016	8	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV02	41.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	41.8
2016	8	4329	Copper Valley Elec Assn, Inc	Electric Utility	Allison Creek Hydro	AK	58982	GEN1	6.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.5
2016	8	58468	Dominion Renewable Energy	IPP	Granite Mountain Solar East	UT	59946	GMSE	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	8	58468	Dominion Renewable Energy	IPP	Granite Mountain Solar West	UT	59945	GMSW	50.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.4
2016	8	58468	Dominion Renewable Energy	IPP	Iron Springs Solar	UT	59941	ISS	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	8	58135	Ecos Energy LLC	IPP	Munro Valley Solar	CA	60412	MUN	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2016	8	59481	Franklinton Solar LLC	IPP	Franklinton Solar	NC	59708	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	8	57104	Golden Springs Development Company LLC	IPP	Building L	CA	60154	BLDG1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2016	8	57104	Golden Springs Development Company LLC	IPP	Building F	CA	60151	BLDGF	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2016	8	57104	Golden Springs Development Company LLC	IPP	Building G	CA	60153	BLDGG	1.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.2
2016	8	57104	Golden Springs Development Company LLC	IPP	Building B	CA	60152	BLDGB	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2016	8	59462	Healdstone Energy Holdings, LLC	IPP	Cornwall Solar Center, LLC	NC	59663	CSC1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	8	9324	Indiana Michigan Power Co	Electric Utility	OlivePV	IN	59854	OLPV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	8	9324	Indiana Michigan Power Co	Electric Utility	Twin Branch PV	IN	59861	TBPV1	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6
2016	8	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Huntingburg Solar Park	IN	60251	SHUNT	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	8	49893	Invenery Services LLC	IPP	Gunsight Mountain Wind Energy LLC	TX	56776	1	120.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	120.0
2016	8	11208	Los Angeles Department of Water & Power	Electric Utility	MacLay Solar Project	CA	57308	1	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2016	8	60190	MC1 Solar Farm, LLC	IPP	MC1 Solar	NC	60395	MC1PV	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	8	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF4	40.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.4
2016	8	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF4	33.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.7
2016	8	60213	Modin Solar, LLC	IPP	Modin Solar Farm	NC	60417	MSFPV	51.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2016	8	57313	SolarCity Corporation	IPP	BJ's Wholesale Club, Inc- Uxbridge	MA	60116	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	8	57313	SolarCity Corporation	IPP	Oneida County- DPW	NY	60114	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2016	8	57313	SolarCity Corporation	IPP	Onondaga County - Oak Orchard WWTP	NY	60098	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2016	8	57313	SolarCity Corporation	IPP	Onondaga County- Jamesville	NY	60232	PV1	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2016	8	57313	SolarCity Corporation	IPP	Town of Halfmoon	NY	60115	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	8	59773	SunE Solar XVI Lessor, LLC	IPP	SunE Rochester	CA	60032	RCHTR	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	8	58661	Sustainable Power Group, LLC	IPP	Antelope Big Sky Ranch	CA	60279	ABSR	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	8	56694	Thermo No 1 BE 01 LLC	IPP	Thermo Solar PV-01	UT	59883	SOLAR	2.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.9
2016	8	60184	Tropico, LLC	IPP	Tropico Solar PV Plant	CA	59599	GEN1	13.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	14.0
2016	9	59050	Algonquin Power Co	IPP	Algonquin SKIC 10 Solar, LLC	CA	60242	SK10G	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less	

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	9	59680	Lillington Solar LLC	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	9	59802	Live Oak Solar, LLC	IPP	Live Oak Solar, LLC	GA	60063	LVEOK	51.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	51.0
2016	9	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF5	40.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.4
2016	9	59600	Mohave Sunrise Solar I, LLC	IPP	Mohave Electric at Fort Mohave	AZ	59819	PV2	11.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	11.8
2016	9	9436	Mosaic Phosphates Co.	Industrial	Mosaic Phosphates Uncle Sam	LA	10198	GEN3	15.0	All Other	OTH	ST	(V) Under construction, more than 50 percent complete	15.0
2016	9	60185	Nicolls, LLC	IPP	Nicolls Solar PV Plant	CA	59600	GEN1	19.0	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	20.0
2016	9	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 4	0.6	Conventional Steam Coal	BIT	ST	(U) Under construction, less than or equal to 50 percent complete	2.9
2016	9	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 5	0.6	Conventional Steam Coal	BIT	ST	(U) Under construction, less than or equal to 50 percent complete	2.2
2016	9	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG1	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	107.0
2016	9	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG2	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	107.0
2016	9	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG3	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	107.0
2016	9	59682	Pollockville Solar, LLC	IPP	Pollockville Solar	NC	59917	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	9	59790	River Bend Solar, LLC	IPP	River Bend Solar, LLC	AL	60058	RVRBN	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	75.0
2016	9	59662	Riverside Fuel Cell, LLC	Commercial	Riverside RWQCP Fuel Cell	CA	59877	MB20	1.4	Other Waste Biomass	OBG	FC	(V) Under construction, more than 50 percent complete	1.4
2016	9	60209	Roswell Solar, LLC	IPP	Roswell Solar, LLC	NM	60406	RSPV	70.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	70.0
2016	9	60060	SR Mavericks, LLC	IPP	SR Mavericks	CO	60263	MVRKS	6.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.5
2016	9	57313	SolarCity Corporation	IPP	AVS Lancaster 1	CA	60095	PV1	3.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.7
2016	9	57313	SolarCity Corporation	IPP	Connecticut Municipal Electric Energy Co	CT	60225	PV1	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2016	9	57313	SolarCity Corporation	IPP	Connecticut Municipal Electric Energy Co	CT	60228	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	9	57313	SolarCity Corporation	IPP	US-TOPCO (Soccer Center)	CA	60086	PV1	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2016	9	59605	South Lousburg Solar LLC	IPP	South Lousburg Solar	NC	59825	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	9	60045	Stainback Solar Farm, LLC	IPP	Stainback Solar Farm	NC	60257	INV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	9	59138	SunPower Corporation, Systems	IPP	Rio Bravo Solar 1 LLC	CA	59249	PV1	19.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	9	59138	SunPower Corporation, Systems	IPP	Wildwood Solar II	CA	59253	PV1	14.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	15.0
2016	9	59840	Wallace Solar 2 LLC	IPP	Wallace Solar 2	NC	60090	2MWPV	1.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.9
2016	9	59731	Windham Solar, LLC	IPP	Lebanon Solar 1	CT	59991	LEB1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	9	59731	Windham Solar, LLC	IPP	Lebanon Solar 2	CT	59992	LEB2	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	9	60142	Worham Solar Farm, LLC	IPP	Worham Solar Farm	NC	60351	INV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	5.0
2016	10	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG1	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2016	10	58680	Ayrshire Holdings, LLC	IPP	Ayrshire	NC	58792	PV1	19.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.4
2016	10	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	04	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	60.5
2016	10	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	05	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	60.5
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	11	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	12	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	13	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	14	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	15	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	16	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	17	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	18	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	19	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	20	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	21	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	22	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	57421	BayWa r e Wind LLC	IPP	Chopin Wind LLC	OR	59076	WT1	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	10	60143	Bison Solar LLC	IPP	Bison Solar LLC	CO	60351	BSPV1	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2016	10	59843	Bythe Solar II, LLC	IPP	Bythe Solar II, LLC	CA	60092	BLCK7	32.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	32.1
2016	10	60148	Brady Wind, LLC	IPP	Brady Wind Energy Center	ND	60355	BWEC1	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2016	10	60094	Clinton Battery Utility, LLC	IPP	Clinton Battery	OH	60297	INV1	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	10	58695	Coronal Development Services	IPP	Hyline Solar Center, LLC	OR	60331	HSC1	9.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	9.0
2016	10	58695	Coronal Development Services	IPP	Vale Air Solar Center, LLC	OR	60335	VASC1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2016	10	58468	Dominion Renewable Energy	IPP	Eastern Shore Solar, LLC	VA	60127	PV1	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	10	60128	Electra Wind, LLC	IPP	Electra Wind Farm	TX	60338	EWF	230.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.0
2016	10	25438	Friant Power Authority	IPP	Friant Hydro Facility	CA	50393	RO2	9.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	6.9
2016	10	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	4TG	62.0	Wood/Wood Waste Biomass	BLQ	ST	(V) Under construction, more than 50 percent complete	75.0
2016	10	60195	Groton Fuel Cell I, LLC	Electric CHP	Pfizer Groton Fuel Cell	CT	60392	MM-24	2.8	Other Natural Gas	NG	FC	(T) Regulatory approvals received. Not under construction	2.8
2016	10	60195	Groton Fuel Cell I, LLC	Electric CHP	Pfizer Groton Fuel Cell	CT	60392	MM-25	2.8	Other Natural Gas	NG	FC	(T) Regulatory approvals received. Not under construction	2.8
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Ellettsville Solar RES	IN	59985	PV1	1.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.1
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Henryville Solar RES	IN	59986	PV1	1.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.1
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Johnson Co. Solar RES	IN	59989	PV1	1.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.1
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	New Haven Solar RES	IN	59983	PV1	1.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.1
2016	10	9324	Indiana Michigan Power Co	Electric Utility	Waterdriet PV	MI	59853	WVPV1	4.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.6
2016	10	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park	IN	60253	SANDE	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	10	4361	Ingredion Inc - Stockton	Industrial	Ingredion Stockton	CA	52115	GEN2	6.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	7.2
2016	10	49893	Invenery Services LLC	IPP	Wake Wind Energy Center	TX	58766	1	129.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	129.5
2016	10	49893	Invenery Services LLC	IPP	Wake Wind Energy Center	TX	58766	2	109.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	109.2
2016	10	49893	Invenery Services LLC	IPP	Wake Wind Energy Center	TX	58766	3	61.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	61.1
2016	10	59022	Leonardo Wind 1 LLC	IPP	Leonardo Wind 1 LLC	IA	59228	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	58849	Mariah del Este LLC	IPP	Mariah North	TX	59005	MAR1	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2016	10	59026	Michelangelo Wind 1 LLC	IPP	Michelangelo Wind 1 LLC	IA	59231	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	58827	Michelangelo Wind 3 LLC	IPP	Michelangelo Wind 3 LLC	IA	59053	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59027	Michelangelo Wind 4 LLC	IPP	Michelangelo Wind 4 LLC	IA	59232	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF6	40.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.4
2016	10	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF6	33.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.7
2016	10	59668	Mount Olive Solar LLC	IPP	Mount Olive Solar	NC	59908	2MWPV	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2016	10	59025	Optimum Wind 3 LLC	IPP	Optimum Wind 3 LLC	IA	59227	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59024	Optimum Wind 4 LLC	IPP	Optimum Wind 4 LLC	IA	59226	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59017	Optimum Wind 5 LLC	IPP	Optimum Wind 5 LLC	IA	59223	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59018	Optimum Wind 6 LLC	IPP	Optimum Wind 6 LLC	IA	59224	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59019	Optimum Wind 7 LLC	IPP	Optimum Wind 7 LLC	IA	59225	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	58838	Parley, LLC	IPP	Henrietta Solar Project	CA	59975	PV1	102.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	102.0
2016	10	59728	RE Astoria 2 LLC	IPP	RE Astoria 2	CA	59977	ASTR2	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2016	10	59727	RE Astoria LLC	IPP	RE Astoria	CA	59976	ASTR1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2016	10	17650	Southern Power Co	IPP	Butler Solar Project 103	GA	58896	1	103.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	103.0
2016	10	17650	Southern Power Co	IPP	RE Roserock	TX	59994	ROSEK	160.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	160.0
2016	10	17650	Southern Power Co	IPP	RE Tranquility	TX	59939	TQ	205.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	205.3
2016	10	58661	Sustainable Power Group, LLC	IPP	Antelope DSR 2	CA	60187	DSR2	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	10	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 4	CA	59317	BEAC4	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2016	10	58661	Sustainable Power Group, LLC	IPP	Western Antelope Dry Ranch	CA	58627	WADR	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	10	59826	SynCarpha Bondsville, LLC	IPP	Palmer Landfill	MA	60076	SYNPL	4.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)	
2016	11	58695	Coronal Development Services	IPP	Railroad Solar Center, LLC	OR	60333	RSC1	4.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.5	
2016	11	58695	Coronal Development Services	IPP	Thunderegg Solar Center, LLC	OR	60334	TSC1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0	
2016	11	59979	Cotton Plains Wind I, LLC	IPP	Cotton Plains Wind Farm	TX	60210	CPWF	50.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.4	
2016	11	57406	Deepwater Wind Block Island LLC	IPP	Block Island Wind Farm	RI	58035	BIWF	29.3	Offshore Wind Turbine	WND	WS	(V) Under construction, more than 50 percent complete	30.0	
2016	11	58970	Ecoplexus, Inc	IPP	Turkey Creek PV1	NC	60000	TRKCK	13.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	13.5	
2016	11	6452	Florida Power & Light Co	Electric Utility	Babcock Solar Energy Center	FL	59993		74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5	
2016	11	6452	Florida Power & Light Co	Electric Utility	Citrus Solar Energy Center	FL	60061		74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5	
2016	11	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP1	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5	
2016	11	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP2	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5	
2016	11	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP3	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5	
2016	11	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP4	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5	
2016	11	59941	Innovative Solar 43, LLC	IPP	Innovative Solar 43, LLC	NC	60149	FLS1	50.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.8	
2016	11	59446	Innovative Solar 55, LLC	IPP	Innovative Solar 55	NC	59676	IS044	6.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.5	
2016	11	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF5	33.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.7	
2016	11	56990	NJR Clean Energy Ventures Corporation	IPP	Ringer Hill Wind Farm, LLC	PA	60329	RINGR	39.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	39.9	
2016	11	59634	North Star Solar PV LLC	IPP	North Star Solar Project	MN	59652	NSSP1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0	
2016	11	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton Solar	WI	60203		3.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.5	
2016	11	60155	OW Settler Wind, LLC	IPP	OW Settler Wind	TX	60366	OSWF	151.2	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	151.2	
2016	11	17470	PUD 1 of Snohomish County	Electric Utility	MESA 2	WA	60021	MESA2	2.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.4	
2016	11	60189	SJA Solar, LLC	IPP	SJA Solar LLC-Solterra Monastery	MA	60391	SJAPV	20.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.1	
2016	11	60097	San Isabel Solar, LLC	IPP	San Isabel Solar, LLC	CO	60304	SISPV	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0	
2016	11	60177	Solar Star Arizona XIII, LLC	IPP	Sulphur Springs	AZ	60381	SSSP	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0	
2016	11	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	Anna Solar	NC	60176	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	Blue Bird Solar	NC	60177	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0	
2016	11	58658	Sunlight Partners	IPP	Bonnie Solar	NC	60175	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5	
2016	11	58658	Sunlight Partners	IPP	Sadie Solar	NC	60167	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	Christina Solar	NC	60172	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0	
2016	11	58658	Sunlight Partners	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	Hawk Solar	NC	60163	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0	
2016	11	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0	
2016	11	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	11	58661	Sustainable Power Group, LLC	IPP	Antelope DSR 1	CA	60186	DSR1	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0	
2016	11	58661	Sustainable Power Group, LLC	IPP	Pioneer Wind Park, LLC	WY	60259	PWP1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0	
2016	11	58661	Sustainable Power Group, LLC	IPP	Solverde 1	CA	60185	SOLV1	85.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	85.0	
2016	11	58661	Sustainable Power Group, LLC	IPP	Western Antelope Blue Sky B	CA	59961	WABSB	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0	
2016	11	18454	Tampa Electric Co	Electric Utility	Legoland Solar	FL	60371		1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5	
2016	11	59011	Tiburon Holdings	IPP	Tiburon Holdings	NC	59217	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	11	24211	Tucson Electric Power Co	Electric Utility	Fort Huachuca Solar PV Project	AZ	58972	FHUA2	4.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.1	
2016	12	58603	Aloha Solar Energy Fund I LLC	IPP	Aloha Solar Energy Fund I PK1	HI	58659	PK-1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0	
2016	12	59758	American Falls Solar I, LLC	IPP	American Falls Solar I	ID	60012	IFAF2	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0	
2016	12	59757	American Falls Solar LLC	IPP	American Falls Solar	ID	60011	IFAF	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0	
2016	12	59725	Ariel Solar, LLC	IPP	Bloomshury Solar, LLC	NC	59970	BLOOM	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0	
2016	12	59359	BHE Renewables, LLC	IPP	Grande Prairie Wind Farm	NE	58695		1	400.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	400.0
2016	12	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0	
2016	12	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0	
2016	12	58625	Black Oak Wind, LLC	IPP	Black Oak Wind Farm	MN	58692		1	78.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	78.0
2016	12	60149	Brady Wind II, LLC	IPP	Brady II Wind Energy Center	ND	60354	BWEC2	150.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	150.0	
2016	12	59006	Calypso Farm LLC	IPP	Calypso Farm	NC	59212	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	12	59991	Caprock Solar 1, LLC	IPP	Caprock Solar 1 LLC	NM	59251	PV1	24.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	25.0	
2016	12	58998	Chapman Ranch Wind LLC	IPP	Chapman Ranch Wind I	TX	59193	CHAI	236.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	236.0	
2016	12	4180	Connecticut Mun Elec Enrgy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP1	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0	
2016	12	4180	Connecticut Mun Elec Enrgy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP2	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0	
2016	12	4180	Connecticut Mun Elec Enrgy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP3	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0	
2016	12	4180	Connecticut Mun Elec Enrgy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP4	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0	
2016	12	56769	Consolidated Edison Development Inc.	IPP	Blackwell Solar Park	CA	59524	FRBSP	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0	
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Avenal	CA	60077	AVCA	15.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	15.8	
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 1	CA	60078	DU1CA	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0	
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 2	CA	60079	DU2CA	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0	
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 3	CA	60080	DU3CA	15.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	15.0	
2016	12	56769	Consolidated Edison Development Inc.	IPP	Oro Loma	CA	59915	ORCA	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0	
2016	12	59319	Cotton Solar, LLC	IPP	Cotton Solar	SC	59572	PV1	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0	
2016	12	59997	Customized Energy Solutions	IPP	ESS Fairygrounds	MD	60215	ESSFG	6.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	6.0	
2016	12	59997	Customized Energy Solutions	IPP	ESS Wesel	MD	60214	ESSWL	6.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	6.0	
2016	12	59997	Customized Energy Solutions	IPP	NA 1 (Hagerstown)	MD	60213	MPSHG	2.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.0	
2016	12	5109	DTE Electric Company	Electric Utility	Echo Wind Park	MI	58121	GEN3	50.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.0	
2016	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	65.0	
2016	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	65.0	
2016	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Mocksville Solar Facility	NC	60382	MSFPV	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4	
2016	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Monroe Solar Facility	NC	60383	MONPV	59.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	59.4	
2016	12	58970	Ecoplexus, Inc	IPP	American Legion PV 1	NC	59516	AMLEG	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0	
2016	12	58970	Ecoplexus, Inc	IPP	Baker PV 1	NC	59517	BAKE1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0	
2016	12	58970	Ecoplexus, Inc	IPP	Bentall Bridge PV 1	NC	59515	BENT1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0	
2016	12	58970	Ecoplexus, Inc	IPP	Flat Meeks PV 1	NC	59514	FLAT1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0	
2016	12	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0	
2016	12	5701	El Paso Electric Co	Electric Utility	Montana Solar Facility	TX	60300	IMPV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0	
2016	12	58720	Enbridge	IPP	New Creek Wind	WV	60132	NCG01	103.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	103.0	
2016	12	59380	Enel Green Power NA, Inc.	IPP	Apple Blossom Wind Farm	MI	58690	APLB1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0	
2016	12	59380	Enel Green Power NA, Inc.	IPP	Courtenay Wind Farm	ND	58658		1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Drift Sand Wind Project LLC	OK	59065	WT1	109.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	109.8	
2016	12	59380	Enel Green Power NA, Inc.	IPP	Lindahl Wind Project, LLC	ND	59684	LWP01	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0	
2016	12	59380	Enel Green Power NA, Inc.	IPP	Mustang Run Wind Project LLC	OK	59000	MRWP	136.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	136.0	
2016	12	59330	Enel Green Power NA, Inc.	IPP	South Fork Wind Farm	MN	58691	STFK1	13.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	13.0	
2016	12	60201	Exum Farm Solar, LLC	IPP	Exum Farm Solar, LLC	NC	60400	FLS1							

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	12	49893	Invenery Services LLC	IPP	Bethel Wind Farm LLC	TX	60414	GEN1	276.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	276.0
2016	12	60198	Kennedy Solar, LLC	IPP	Kennedy Solar, LLC	NC	60397	FLS1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2016	12	55910	Lanai Sustainability Research LLC	IPP	Millian South Solar Farm	HI	57242	1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	12	60200	Lincoln Solar, LLC	IPP	Lincoln Solar, LLC (NC)	NC	60399	FLS1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2016	12	59669	Louisburg Solar LLC	IPP	Louisburg Solar	NC	59895	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	59573	Marshall Solar Energy Project	IPP	Marshall Solar Energy Project	MN	59875	PV1	62.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	62.3
2016	12	59761	McLean Homestead, LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2016	12	60106	Mesquite Solar 2, LLC	IPP	Mesquite Solar 2, LLC	AZ	60307	1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2016	12	60107	Mesquite Solar 3, LLC	IPP	Mesquite Solar 3, LLC	AZ	60308	1	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2016	12	59483	Metropolitan Airports Commission	IPP	St. Paul Intl Airport Red & Blue Parking	MN	59709	PV2	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	0.9
2016	12	59469	Mt. Home Solar 1, LLC	IPP	Mountain Home Solar	ID	59695	MHPV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	59755	Murphy Flat Power, LLC	IPP	Murphy Flat Solar	ID	60009	IPMF	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	59099	New Dimension Energy Company, LLC	IPP	Westwind Trust	CA	54258	WTGS	15.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.6
2016	12	13781	Northern States Power Co - Minnesota	Electric Utility	Courtney Wind Farm	ND	60204	CWF01	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2016	12	58477	OZenergies, Inc.	IPP	Five Forks Solar	NC	59951	5FRK	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	12	59756	Orchard Ranch Solar, LLC	IPP	Orchard Ranch Solar	ID	60010	PCOR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	60207	Pisgah Mountain, LLC	IPP	Pisgah Mountain Wind	ME	60404	PISCA	9.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	9.1
2016	12	60125	Providence Solar Center, LLC	IPP	Providence Solar	TN	60337	PROV	16.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.0
2016	12	59010	Rhubarb One LLC	IPP	Rhubarb One SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	60182	SRJFC, LLC	Electric CHP	Santa Rita Jail Fuel Cell	CA	60385	MB-18	1.4	Other Natural Gas	NG	FC	(T) Regulatory approvals received. Not under construction	1.4
2016	12	59109	SUNE BEACON SITE 2, LLC	IPP	Beacon Solar Plant Site 2	CA	59309	BEAC2	48.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	48.0
2016	12	59110	SUNE BEACON SITE 5, LLC	IPP	Beacon Solar Plant Site 5	CA	59308	BEAC5	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2016	12	60178	Shoe Creek Solar, LLC	IPP	Shoe Creek Solar, LLC	NC	60380	SCSPV	5.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.2
2016	12	59779	Shoreham Solar Commons	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	24.9
2016	12	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2016	12	59681	Smithfield Solar LLC	IPP	Smithfield Solar LLC	NC	59920	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	12	58704	Sonnie Two LLC	IPP	Sonnie Two	NC	58829	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	17650	Southern Power Co	IPP	RE Garland	CA	60233	PV2	185.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	185.0
2016	12	17650	Southern Power Co	IPP	RE Garland A	CA	60386	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	12	17650	Southern Power Co	IPP	Taylor County Solar	GA	59897	1	148.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	148.0
2016	12	59318	Soy Solar LLC	IPP	Soy Solar	NC	59571	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	60197	St. Pauls Solar 1, LLC	IPP	St. Pauls Solar 1, LLC	NC	60396	FLS1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2016	12	59138	SunPower Corporation, Systems	IPP	Aragonne Solar LLC	NM	59252	PV1	38.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2016	12	59138	SunPower Corporation, Systems	IPP	Rio Bravo Solar II LLC	CA	59250	PV1	19.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	12	58658	Sunlight Partners	IPP	Beetle Solar	NC	59511	PV1	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2016	12	58658	Sunlight Partners	IPP	Cardinal Solar	NC	60174	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Carol Jean Solar	NC	59017	GEN1	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2016	12	58658	Sunlight Partners	IPP	Clayton Solar	NC	60171	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Engle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2016	12	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2016	12	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Husky Solar	NC	59510	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	12	58658	Sunlight Partners	IPP	Icarus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2016	12	58658	Sunlight Partners	IPP	Jordan Solar	NC	60164	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Willcott Solar	NC	60182	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	59661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 3	CA	59316	BEAC3	56.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.0
2016	12	59661	Sustainable Power Group, LLC	IPP	North Lancaster Ranch	CA	59962	NLR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	59661	Sustainable Power Group, LLC	IPP	North Lancaster Ranch Solar LLC	CA	60282	NLR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	59317	Toprak LLC	IPP	Toprak	NC	59570	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	60071	Trinity Solar, LLC	IPP	Trinity Solar	NC	60291	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	24211	Tucson Electric Power Co	Electric Utility	Demoss Petrie	AZ	124	BA1	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2016	12	58153	US Magnesium	Industrial	US Magnesium	UT	58191	GT4	24.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	30.0
2016	12	59896	Uppo Power 1, LLC	IPP	Castle Gap Solar	TX	60123	CGAP	117.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	117.3
2016	12	57341	Veolia Energy	Electric CHP	Univ Minnesota CHP Plant	MN	59197	CTG-1	17.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	21.0
2016	12	19876	Virginia Electric & Power Co	Electric Utility	Scott Solar Farm	VA	60316	1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2016	12	19876	Virginia Electric & Power Co	Electric Utility	Whitethouse Solar Farm	VA	60319	1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	19876	Virginia Electric & Power Co	Electric Utility	Woodland Solar Farm	VA	60318	1	19.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	19.0
2016	12	54842	WM Renewable Energy LLC	IPP	Waste Management Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	54842	WM Renewable Energy LLC	IPP	Waste Management Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	60156	White Farm Solar, LLC	IPP	White Farm Solar, LLC	NC	60363	WFSPV	5.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.2
2016	12	59316	Whitetail Solar LLC	IPP	Whitetail Solar	SC	59569	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2016	12	59330	Wommack Farm, LLC	IPP	Wommack Farm	NC	59585	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	1	56140	Black Hills/Colorado Elec Util	Electric Utility	Peak View Wind Farm	CO	60143	WTG	60.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.8
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	10	18.7	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.7
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	8	18.7	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.7
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	9	18.7	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.7
2017	1	5109	DTE Electric Company	Electric Utility	Demile Solar Farm	MI	60346	1	28.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	28.4
2017	1	5109	DTE Electric Company	Electric Utility	O'Shea Solar Farm	MI	60348	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	1	5109	DTE Electric Company	Electric Utility	Turrill Solar Farm	MI	60347	1	19.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.6
2017	1	56615	First Solar Project Development	IPP	Portal Ridge Solar B, LLC	CA	60310	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	1	58909	Fremont Farm LLC	IPP	Fremont Farm	NC	59103	1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	1	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE1	478.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	478.0
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	1	59323	Monroe Moore Farm, LLC	IPP	Monroe Moore Farm	NC	59578	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	59338	Spring Valley Farm 2, LLC	IPP	Spring Valley Farm 2, LLC	NC	59593	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	59839	Sunflower Wind Project	IPP	Sunflower Wind Project	ND	60088	SNFLR	104.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	104.0
2017	1	58661	Sustainable Power Group, LLC	IPP	Aspiration G	CA	59737	ASPRG	9.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	9.0
2017	1	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch B LLC	CA	60281	CADRB	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	1	58661	Sustainable Power Group, LLC	IPP	Lancaster WAD B	CA	59739	LWADB	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	60046	TPE Alta Luna, LLC	IPP	Alta Luna	NM	60258	ALPV1	28.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	28.1
2017	1	18454	Tampa Electric Co	Electric Utility	Polk	FL	7242	2CC	459.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	463.0
2017	1	59328	Tart Farm, LLC	IPP	Tart Farm	NC	59563	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	2	57369	Apple, Inc.	Industrial	Apple Campus 2 PV	CA	59473	AC2PV	14.4	Solar Photovoltaic	SUN	PV	(U) Under construction, more than 50 percent complete	14.4

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	3	59977	Hemlock Solar LLC	IPP	Hemlock Solar	NC	60207	HEMLK	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	60098	MS Solar 2, LLC	IPP	Sumrall 1 Solar Farm	MS	60306	SUM1	52.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	52.0
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy JN, LLC	NM	60145	1	181.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	181.7
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy KW, LLC	NM	60152	1	142.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	142.6
2017	3	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(T) Regulatory approvals received. Not under construction	2.0
2017	3	60159	RES America Developments Inc.	IPP	Lamesa Solar	TX	60372	LSPV1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2017	3	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH2	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2017	4	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3CT	324.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	365.5
2017	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3ST	191.8	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	204.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN1	230.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	232.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN3	314.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	338.0
2017	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	207.0
2017	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	207.0
2017	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	230.0
2017	4	59435	Innovative Solar 37, LLC	IPP	Innovative Solar 37	NC	59665	ISU37	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG1	219.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	222.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG2	219.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	222.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	STG1	224.1	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	260.5
2017	4	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 1	CA	59315	BEAC1	56.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT4	307.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT5	307.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	STG6	454.9	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	511.2
2017	5	59745	First Solar Asset Management	IPP	Playa Solar 2	NV	60261	GEN1	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2017	5	59155	First Wind O&M, LLC	IPP	Millant South PV	HI	58281	1	14.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	14.7
2017	5	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN2	230.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	232.0
2017	5	59898	Kaivaloa Solar, LLC	IPP	Kaivaloa Solar	HI	60125	KAWS	49.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	49.0
2017	5	59342	Maricopa West Solar PV 2, LLC	IPP	Maricopa West Solar 2	CA	59688	MW52	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	5	12258	Medical Area Total Epy Pft Inc	Commercial	Medical Area Total Energy Plant	CA	10883	CT3	128	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	138
2017	5	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT1	310.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2017	5	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2017	5	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	493.0
2017	5	59336	Schell Solar Farm, LLC	IPP	Schell Solar Farm	NC	59591	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	5	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	1	19.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	19.0
2017	5	24211	Tucson Electric Power Co	Electric Utility	UAOTP II	AZ	57717	UABA	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2017	5	59764	Waipio PV, LLC	IPP	Waipio Solar	HI	60024	WPO	45.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	45.9
2017	6	60130	Albany Green Energy, LLC	Electric CHP	Albany Green Energy	GA	60340	1	42.0	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	50.0
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	56771	Black Hills Service Company LLC	IPP	Pueblo Airport Generating Station	CO	56998	CT08	37.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	40.0
2017	6	58662	Blue Mountain Power Partners	IPP	Blue Mountain Wind Farm	UT	58764	BM1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2017	6	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG5	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2017	6	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG6	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2017	6	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	STG2	395.1	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	419.6
2017	6	60096	Calvert Energy LLC	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	59365	Capital Power Corporation	IPP	CP Bloom Wind LLC	KS	59888	GEN2	180.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	180.0
2017	6	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2017	6	60075	Climax Solar, LLC	IPP	Climax Solar	NC	60286	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	58895	Coronal Development Services	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	6	60076	Crawford Solar, LLC	IPP	Crawford Solar	NC	60294	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	60077	Crimson Solar, LLC	IPP	Crimson Solar	NC	60295	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT7	313.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	360.9
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT8	313.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	360.9
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	STG9	461.4	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	508.5
2017	6	59745	First Solar Asset Management	IPP	CA Flats Solar 130, LLC	CA	60033	GEN01	130.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	130.0
2017	6	56625	Flat Water Wind Farm LLC	IPP	Flat Water Wind Farm LLC	NE	57283	WTG2	10.3	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	10.5
2017	6	59529	Footprint Salem Harbor Development LP	IPP	Salem Harbor	MA	1626	5	340.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	340.0
2017	6	59528	Footprint Salem Harbor Development LP	IPP	Salem Harbor	MA	1626	6	340.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	340.0
2017	6	58959	Freeport LNG Development LP	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	97.0
2017	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2017	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2017	6	9267	Hoosier Energy R E C, Inc	Electric Utility	Cabin Creek Renewable Energy Station	IN	59791	1	1.9	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	2.0
2017	6	9267	Hoosier Energy R E C, Inc	Electric Utility	Cabin Creek Renewable Energy Station	IN	59791	2	1.9	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	2.0
2017	6	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	6	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	6	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	6	59438	Innovative Solar 53, LLC	IPP	Innovative Solar 53	NC	59668	IS053	4.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2017	6	59438	Innovative Solar 54, LLC	IPP	Innovative Solar 54	NC	59668	IS054	4.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	54.0
2017	6	59448	Innovative Solar 67, LLC	IPP	Innovative Solar 67	NC	59678	IS067	33.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	33.3
2017	6	59449	Innovative Solar 68, LLC	IPP	Innovative Solar 68	NC	59679	IS068	48.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	48.3
2017	6	11664	Mark Technologies Corp	IPP	Alta Mesa Project Phase IV	CA	55352	GEN1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2017	6	59101	NTE Texas, LLC	IPP	Pecan Creek Energy Center	TX	59298	PCEC1	133.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	171.8
2017	6	59101	NTE Texas, LLC	IPP	Pecan Creek Energy Center	TX	59298	PCEC2	133.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	171.8
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG11	256.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	328.0
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG12	256.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	328.0
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	STG10	334.6	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	404.0
2017	6	60070	Organ Church Solar	IPP	Organ Church Solar	NC	60284	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	59771	Pecan Solar LLC	IPP	Pecan Solar	NC	60300	PECAN	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2017	6	58696	Soluga Farms IV	IPP	Soluga Farms IV	NC	59934	SFV	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2017	6	60073	St. Matthews Solar, LLC	IPP	St. Matthews Solar	SC	60293	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	58960	Timberline Energy LLC	IPP	Front Range Project	CO	59143	FR-2	1.5	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2017	6	60192	Warbler Holdings, LLC	IPP	Warbler Holdings	NC	60393	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2017	6	60079	Whiteville Solar 2, LLC	IPP	Whiteville Solar 2	NC	60292	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	7	59594	Black Oak Wind Farm LLC	IPP	Black Oak Wind Farm	NY	59813	NA	16.1	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	16.1
2017	7	60078	Bladen Solar Farm, LLC	IPP	Bladen Solar Farm	NC	60296	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	7	60179	Duroc Holdings, LLC	IPP	Duroc Holdings	NC	60379	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	7	59362	Jericho Rise Wind Farm LLC	IPP	Jericho Rise Wind Farm LLC	NY	59629	GEN1	77.7	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	77.7
2017	7	58783	Marselles Land and Water Company	IPP	Marselles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY		

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	10	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	345.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	390.0
2019	10	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	345.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	390.0
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Ashville	NC	2706	CT5	191.2	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	191.2
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Ashville	NC	2706	CT7	191.2	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	191.2
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Ashville	NC	2706	ST6	102.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	102.0
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Ashville	NC	2706	ST8	102.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	102.0
2019	12	59365	Capital Power Corporation	IPP	Garrison Butte Wind, LLC	ND	60066	GEN	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT1	301.5	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	319.5
2019	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT2	301.5	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	319.5
2019	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	ST	187.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	187.0
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Magic Valley Wind Farm III LLC	TX	60362	MVIII	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm II	TX	59064	WT1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2019	12	56615	First Solar Project Development	IPP	North Rosamond Solar LLC	CA	59879	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2019	12	56615	First Solar Project Development	IPP	Sunshine Valley Solar	NV	59826	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	40.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TGB1	97.0	Natural Gas Fired Combustion Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TGB2	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	1	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2019	12	56094	Medicine Bow Fuel & Power LLC	IPP	Medicine Bow Fuel & Power LLC	WY	56452	1	350.0	Conventional Steam Coal	BIT	ST	(P) Planned for installation, but regulatory approvals not initiated	350.0
2019	12	14354	PacificCorp	Electric Utility	Blundell	UT	299	3	35.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	30.0
2019	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	687.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	687.0
2019	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1A	274.0	Other Gases	OG	CT	(T) Regulatory approvals received. Not under construction	274.0
2019	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1B	126.0	Other Gases	OG	CA	(T) Regulatory approvals received. Not under construction	126.0
2019	12	56709	Turning Point Solar LLC	IPP	Turning Point Solar	OH	57371	TPS50	44.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	44.0
2020	1	56794	CE Obsidian Energy LLC	IPP	Black Rock II	CA	57478	G3202	60.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	70.0
2020	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SPECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,105.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTC3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	250.0
2020	5	18445	City of Tallahassee - (FL)	Electric Utility	Aravah B Hopkins	FL	688	GT5	42.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.0
2020	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	4	282.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	321.0
2020	5	18454	Tampa Electric Co	Electric Utility	Tampa Electric Co NA 2	FL	56352	1	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	220.0
2020	6	60118	B3WI BME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2020	6	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	49846	Coastal Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
2020	6	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCA1	261.2	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	280.5
2020	6	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT1	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2020	6	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT2	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCA1	205.4	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	207.4
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCT1	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2020	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCA1	302.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	331.5
2020	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT1	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2020	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT2	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2020	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	4	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	6	56167	Imperial Valley Solar, LLC	IPP	Imperial Valley Solar, LLC	CA	56917	2	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2020	6	59589	Lake Creek 3 Power Company LLC	IPP	Lake Creek	TX	5602	CT1	350.0	Natural Gas Fired Combustion Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT5	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT6	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	6	56883	Tradinghouse Power Company LLC	IPP	Tradinghouse	TX	3506	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	56883	Tradinghouse Power Company LLC	IPP	Tradinghouse	TX	3506	CT2	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	7	58758	CPV Smyth Generation Company LLC	IPP	CPV Smyth Generation Company LLC	VA	58878	1	989.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	1,017.0
2020	8	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	9	7277	Calpine Corporation	IPP	Buckeye Geothermal Power Plant	CA	57180	1	49.9	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	56.9
2020	10	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	5580	East Kentucky Power Coop, Inc	Electric Utility	Green Valley LFGTE	KY	56278	4	0.8	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	0.8
2020	12	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	7277	Calpine Corporation	IPP	Telephone Flat	CA	55846	1	42.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	49.9
2020	12	59365	Capital Power Corporation	IPP	Nolin Hills Wind, LLC	OR	60070	GEN	350.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	350.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	8	209.5	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	209.5
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	9	209.5	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	108.8
2020	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	813.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	813.0
2020	12	19316	Two Elk Generation Partners LP	IPP	Two Elk Generating Station	WY	55360	GEN1	275.0	Conventional Steam Coal	WC	ST	(U) Under construction, less than or equal to 50 percent complete	320.0
2021	1	56794	CE Obsidian Energy LLC	IPP	Black Rock III	CA	57479	G303	60.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	70.0
2021	4	55927	PowerGeorgians LLC	Electric Utility	Plant Washington	GA	56675	MAIN	850.0	Conventional Steam Coal	SUB	ST	(T) Regulatory approvals received. Not under construction	850.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS1	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS3	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS2	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS4	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT1	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT2	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	ST1	344.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2022	12	56943	Blackstone Wind Farm III LLC	IPP	Blackstone Wind Farm III	IL	57618	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	12	56944	Blackstone Wind Farm IV LLC	IPP	Blackstone Wind Farm IV	IL	57619	GEN1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	12	7277	Calpine Corporation	IPP	Four Mile Hill	CA	55845	1	42.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	49.9
2022	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2022	12	56425	Simpson Ridge Wind Farm LLC	IPP	Simpson Ridge Wind Farm LLC	WY	57117	GEN 1	50.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS5	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2023	5	18454	Tampa Electric Co	Electric Utility	Tampa Electric Co NA 2	FL	56352	2	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	220.0
2023	12	57470	Noble Energy Systems, Inc.	IPP	Pea Patch Wind Farm	MD	58087	PEAP	50.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.0
2023	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of capacity for some technologies such as solar photovoltaic generation.
Entity ID and Plant ID are official, unique identification numbers assigned by EIA. Generator IDs are assigned by plant owners and/or operators.
Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

Table 6.6. Planned U.S. Electric Generating Unit Retirements

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2016	6	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	5	0.5	Petroleum Liquids	DFO	IC
2016	6	1009	City of Austin - (MN)	Electric Utility	Austin Northeast	MN	1961	1	28.0	Natural Gas Steam Turbine	NG	ST
2016	6	8198	City of Harrisonburg - (VA)	Electric Utility	Harrisonburg Power Plant	VA	56006	ST-1	2.7	Natural Gas Steam Turbine	NG	ST
2016	6	8723	City of Holland	Electric Utility	James De Young	MI	1830	3	10.5	Conventional Steam Coal	BIT	ST
2016	6	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2016	6	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2016	6	4329	Copper Valley Elec Assn, Inc	Electric Utility	Valdez	AK	6306	1	0.5	Petroleum Liquids	DFO	IC
2016	6	4329	Copper Valley Elec Assn, Inc	Electric Utility	Valdez	AK	6306	2	0.5	Petroleum Liquids	DFO	IC
2016	6	4329	Copper Valley Elec Assn, Inc	Electric Utility	Valdez	AK	6306	3	0.5	Petroleum Liquids	DFO	IC
2016	6	5109	DTE Electric Company	Electric Utility	River Rouge	MI	1740	2	251.0	Conventional Steam Coal	SUB	ST
2016	6	5701	El Paso Electric Co	Electric Utility	Hueco Mountain Wind Ranch	TX	55578	EXIS	1.3	Onshore Wind Turbine	WND	WT
2016	6	50128	Georgia-Pacific Consr Ops LLC-Palatka	Industrial	Georgia-Pacific Palatka Operations	FL	10611	GEN2	7.0	Natural Gas Steam Turbine	NG	ST
2016	6	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	1	170.0	Conventional Steam Coal	SUB	ST
2016	6	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	GT7	7.3	Natural Gas Fired Combustion Turbine	NG	GT
2016	6	18125	Stillwater Utilities Authority	Electric Utility	Boomer Lake Station	OK	3000	2	13.0	Natural Gas Steam Turbine	NG	ST
2016	7	18947	City of Tipton - (IA)	Electric Utility	Tipton	IA	8106	4	0.3	Petroleum Liquids	DFO	IC
2016	7	7140	Georgia Power Co	Electric Utility	Mitchell (GA)	GA	727	3	155.0	Conventional Steam Coal	BIT	ST
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J98	1.0	Landfill Gas	LFG	IC
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U4J08	1.4	Landfill Gas	LFG	IC
2016	7	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN1	0.4	Other Waste Biomass	OBG	IC
2016	7	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN3	0.4	Other Waste Biomass	OBG	IC
2016	8	14534	City of Pasadena - (CA)	Electric Utility	Broadway (CA)	CA	420	B3	71.0	Natural Gas Steam Turbine	NG	ST
2016	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3	103.8	Conventional Hydroelectric	WAT	HY
2016	8	20838	Win-Sam Inc	Commercial	University of Texas at San Antonio	TX	54606	GEN1	3.3	Natural Gas Internal Combustion Engine	NG	IC
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	1	1.3	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	2	1.3	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	3	1.3	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	4	1.2	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	5	1.2	Conventional Hydroelectric	WAT	HY
2016	10	6035	Exelon Power	IPP	Exelon L. Street	MA	1587	GT1	16.0	Petroleum Liquids	DFO	GT
2016	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2016	10	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN2	0.4	Other Waste Biomass	OBG	IC
2016	11	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	1	28.0	Natural Gas Steam Turbine	NG	ST
2016	11	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	2	29.0	Natural Gas Steam Turbine	NG	ST
2016	11	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	3	71.0	Natural Gas Steam Turbine	NG	ST
2016	11	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	1TG	10.5	Wood/Wood Waste Biomass	BLQ	ST
2016	11	14127	Omaha Public Power District	Electric Utility	Fort Calhoun	NE	2289	1	478.1	Nuclear	NUC	ST
2016	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	1	200.0	Conventional Steam Coal	BIT	ST
2016	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	2	200.0	Conventional Steam Coal	BIT	ST
2016	12	5347	Dow Chemical Co	Industrial	LaO Energy Systems	LA	52006	GEN7	95.0	Natural Gas Fired Combined Cycle	NG	CT
2016	12	7160	Geysers Power Co LLC	IPP	West Ford Flat Power Plant	CA	10199	WFF1	15.0	Geothermal	GEO	ST
2016	12	7160	Geysers Power Co LLC	IPP	West Ford Flat Power Plant	CA	10199	WFF2	15.0	Geothermal	GEO	ST
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	El Cajon	CA	301	ENCI	16.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	ST1	106.0	Natural Gas Steam Turbine	NG	ST
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	Kearny	CA	303	KEA3	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	Miramar	CA	305	MRGT	36.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	1	5943	Entergy Nuc Fitzpatrick LLC	IPP	James A Fitzpatrick	NY	6110	1	836.8	Nuclear	NUC	ST
2017	2	57440	SABIC IP Mt. Vernon, LLC	Industrial	SABIC Innovative Plastics Mt. Vernon	IN	58063	1	3.0	Conventional Steam Coal	BIT	ST
2017	3	54843	WM Illinois Renewable Energy LLC	IPP	Lake Gas Recovery	IL	50575	GEN2	2.9	Landfill Gas	LFG	GT
2017	3	54843	WM Illinois Renewable Energy LLC	IPP	Lake Gas Recovery	IL	50575	GEN3	2.9	Landfill Gas	LFG	GT
2017	3	54842	WM Renewable Energy LLC	IPP	BJ Gas Recovery	GA	54392	GEN1	0.8	Landfill Gas	LFG	IC
2017	3	54842	WM Renewable Energy LLC	IPP	BJ Gas Recovery	GA	54392	GEN3	0.8	Landfill Gas	LFG	IC
2017	3	54842	WM Renewable Energy LLC	IPP	Monroe Livingston Gas Recovery	NY	50565	GEN2	0.8	Landfill Gas	LFG	IC
2017	4	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2017	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST
2017	5	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2017	5	7570	Great River Energy	Electric Utility	Stanton	ND	2824	1	188.1	Conventional Steam Coal	SUB	ST
2017	5	7570	Great River Energy	Electric Utility	Stanton	ND	2824	2	1.0	Petroleum Liquids	DFO	IC
2017	5	12628	NRG Chalk Point LLC	IPP	Chalk Point LLC	MD	1571	ST1	331.0	Conventional Steam Coal	BIT	ST
2017	5	12628	NRG Chalk Point LLC	IPP	Chalk Point LLC	MD	1571	ST2	336.0	Conventional Steam Coal	BIT	ST
2017	5	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	4	16.9	Petroleum Liquids	KER	GT
2017	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	2	150.0	Conventional Steam Coal	BIT	ST
2017	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	3	148.0	Petroleum Liquids	RFO	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	1	236.1	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	2	238.6	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	3	596.3	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	4	434.0	Petroleum Liquids	RFO	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	3	31.1	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	4	37.5	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC1	2.0	Petroleum Liquids	DFO	IC
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC2	1.4	Petroleum Liquids	DFO	IC
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	1	17.0	Natural Gas Steam Turbine	NG	ST
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	2	17.0	Natural Gas Steam Turbine	NG	ST
2017	6	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	1	628.0	Conventional Steam Coal	BIT	ST
2017	6	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	2	602.0	Conventional Steam Coal	BIT	ST
2017	6	54842	WM Renewable Energy LLC	IPP	New Milford Gas Recovery	CT	50564	GEN4	0.8	Landfill Gas	LFG	IC
2017	7	13781	Northern States Power Co - Minnesota	Commercial	United Hospital	MN	7378	1	1.6	Petroleum Liquids	DFO	IC
2017	7	13781	Northern States Power Co - Minnesota	Commercial	United Hospital	MN	7378	2	1.6	Petroleum Liquids	DFO	IC
2017	7	13781	Northern States Power Co - Minnesota	Commercial	United Hospital	MN	7378	3	1.6	Petroleum Liquids	DFO	IC
2017	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4	103.8	Conventional Hydroelectric	WAT	HY
2017	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT4	0.3	Landfill Gas	LFG	IC
2017	12	463	Ameresco LFG I Inc	IPP	Al Turi	NY	10549	3010	0.8	Landfill Gas	LFG	IC
2017	12	56730	Cedar Bay Operating Services LLC	Electric CHP	Cedar Bay Generating Company LP	FL	10672	GEN1	250.0	Conventional Steam Coal	BIT	ST
2017	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	83.0	Natural Gas Fired Combined Cycle	NG	CA
2017	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	72.0	Natural Gas Fired Combined Cycle	NG	CT
2017	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	72.0	Natural Gas Fired Combined Cycle	NG	CT
2017	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
2017	12	7160	Geysers Power Co LLC	IPP	Geysers Unit 5-20	CA	286	U10	30.0	Geothermal	GEO	ST
2017	12	7160	Geysers Power Co LLC	IPP	Geysers Unit 5-20	CA	286	U9	30.0	Geothermal	GEO	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.4	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	1	2.1	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	2	1.8	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	3	1.9	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT1	21.6	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT2	25.7	Petroleum Liquids	DFO	GT

Table 6.6. Planned U.S. Electric Generating Unit Retirements

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	1	13.2	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	3	85.2	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	1	23.7	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	2	20.6	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	1	27.9	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	3	80.8	Natural Gas Steam Turbine	NG	ST
2017	12	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-01	2.0	Petroleum Liquids	DFO	IC
2017	12	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-02	2.0	Petroleum Liquids	DFO	IC
2017	12	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-03	2.0	Petroleum Liquids	DFO	IC
2017	12	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-04	2.0	Petroleum Liquids	DFO	IC
2017	12	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-05	2.0	Petroleum Liquids	DFO	IC
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	2	104.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	3	110.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	4	300.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	5	330.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	13407	Nevada Power Co	Electric Utility	Reid Gardner	NV	2324	4	257.0	Conventional Steam Coal	BIT	ST
2017	12	59099	New Dimension Energy Company, LLC	IPP	Altamont Midway Ltd	CA	50001	WTGS	10.9	Onshore Wind Turbine	WND	WT
2017	12	59099	New Dimension Energy Company, LLC	IPP	Dyer Road	CA	50818	GEN1	10.5	Onshore Wind Turbine	WND	WT
2017	12	59099	New Dimension Energy Company, LLC	IPP	Santa Clara (85C)	CA	50534	WGNS	18.0	Onshore Wind Turbine	WND	WT
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	3	121.0	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	4	259.0	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN1	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN2	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN4	5.2	Natural Gas Steam Turbine	NG	ST
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Balch 2	CA	218	2	52.5	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Balch 2	CA	218	3	52.5	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
2017	12	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	5	184.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	2	340.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	3	497.0	Conventional Steam Coal	BIT	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	1	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	2	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	3	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	4	107.0	Conventional Steam Coal	SUB	ST
2018	1	12541	City of Milford - (IA)	Electric Utility	Milford	IA	1164	1	0.6	Petroleum Liquids	DFO	IC
2018	1	12541	City of Milford - (IA)	Electric Utility	Milford	IA	1164	4	0.5	Petroleum Liquids	DFO	IC
2018	1	17891	City of St Marys - (OH)	Electric Utility	St Marys	OH	2942	7	12.0	Petroleum Liquids	DFO	GT
2018	4	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT2	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	6455	Duke Energy Florida, Inc	Electric Utility	Crystal River	FL	628	1	370.0	Conventional Steam Coal	BIT	ST
2018	4	6455	Duke Energy Florida, Inc	Electric Utility	Crystal River	FL	628	2	499.0	Conventional Steam Coal	BIT	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewarten Generating Station	NJ	2411	1	102.8	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewarten Generating Station	NJ	2411	2	118.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewarten Generating Station	NJ	2411	3	106.2	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewarten Generating Station	NJ	2411	4	123.6	Natural Gas Steam Turbine	NG	ST
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	7	7308	Hawkeye Energy Greenport LLC	IPP	Hawkeye Energy Greenport LLC	NY	55969	U-01	52.7	Petroleum Liquids	KER	GT
2018	7	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	1	0.8	Conventional Hydroelectric	WAT	HY
2018	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8	103.8	Conventional Hydroelectric	WAT	HY
2018	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
2018	10	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	2LOT7	0.5	Solar Photovoltaic	SUN	PV
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG1	163.0	Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG2		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG3		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	STG1		Natural Gas Fired Combined Cycle	NG	CA
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2018	12	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	ST
2018	12	12686	Mississippi Power Co	Electric Utility	Sweatt	MS	2048	1	46.0	Natural Gas Steam Turbine	NG	ST
2018	12	12686	Mississippi Power Co	Electric Utility	Sweatt	MS	2048	2	46.0	Natural Gas Steam Turbine	NG	ST
2018	12	13781	Northern States Power Co - Minnesota	Electric Utility	Northern States Flambeau	WI	3984	1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	302.4	Conventional Steam Coal	SUB	ST
2019	6	29926	Entergy Nuclear Generation Co	IPP	Pilgrim Nuclear Power Station	MA	1590	1	682.3	Nuclear	NUC	ST
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2019	10	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1	225.8	Natural Gas Steam Turbine	NG	ST
2019	10	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	7	480.0	Natural Gas Steam Turbine	NG	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	1	189.0	Conventional Steam Coal	BIT	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	189.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	1	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	2	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	1	64.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	2	66.0	Conventional Steam Coal	BIT	ST
2019	12	56706	Chevron Technology Ventures	IPP	Questa Solar Facility	NM	57369	QST	1.0	Solar Photovoltaic	SUN	PV
2019	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	6	754.0	Natural Gas Steam Turbine	NG	ST
2019	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	7	755.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	102.0	Natural Gas Steam Turbine	NG	ST
2019	12	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	1	49.8	Conventional Steam Coal	SUB	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	47.1	Conventional Steam Coal	SUB	ST
2019	12	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	CTG1	19.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	1	71.0	Natural Gas Steam Turbine	NG	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	1	38.0	Natural Gas Steam Turbine	NG	ST
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	24.8	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.4	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	44.1	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	28.4	Natural Gas Fired Combustion Turbine	NG	GT
2020	1	21622	The University of Texas at Dallas	Commercial	University of Texas at Dallas	TX	54607	GEN1	3.5	Natural Gas Internal Combustion Engine	NG	IC
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	78.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	78.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	9	78.0	Conventional Steam Coal	SUB	ST
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P1	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P2	25.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P3	32.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P4	32.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	2	173.0	Conventional Steam Coal	BIT	ST

Table 6.6. Planned U.S. Electric Generating Unit Retirements

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	3	173.0	Conventional Steam Coal	BIT	ST
2020	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	ST1	173.0	Conventional Steam Coal	BIT	ST
2020	6	58177	Raven Power Holdings LLC	IPP	CP Crane Power, LLC	MD	1552	1	190.0	Conventional Steam Coal	SUB	ST
2020	6	58177	Raven Power Holdings LLC	IPP	CP Crane Power, LLC	MD	1552	2	195.0	Conventional Steam Coal	SUB	ST
2020	6	58177	Raven Power Holdings LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	BIT	ST
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	6	495.0	Natural Gas Steam Turbine	NG	ST
2020	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	2	225.8	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	5	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	6	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	8	480.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	174.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	177.0	Natural Gas Steam Turbine	NG	ST
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D1	0.2	Petroleum Liquids	DFO	IC
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D2	0.1	Petroleum Liquids	DFO	IC
2020	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	2	90.0	Natural Gas Steam Turbine	NG	ST
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	SUB	ST
2021	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	1	76.0	Natural Gas Steam Turbine	NG	ST
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2021	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	ST
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	4	96.3	Conventional Steam Coal	SUB	ST
2021	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	2	164.0	Conventional Steam Coal	SUB	ST
2021	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	3	176.0	Conventional Steam Coal	SUB	ST
2021	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2022	1	59409	Eco Services Operations LLC	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	8	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	Natural Gas Steam Turbine	NG	ST
2022	9	177	AES Hawaii Inc	Electric CHP	AES Hawaii	HI	10673	GEN1	180.0	Conventional Steam Coal	BIT	ST
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	1	6.2	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	2	6.4	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	3	6.9	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY1	0.7	Conventional Hydroelectric	WAT	HY
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY2	0.7	Conventional Hydroelectric	WAT	HY
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT3	1.8	Landfill Gas	LFG	IC
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	STM	24.0	Natural Gas Fired Combined Cycle	NG	CA
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTA	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTB	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTC	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	STM	28.0	Natural Gas Fired Combined Cycle	NG	CA
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	1	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	2	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	3	36.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	4	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	1	9.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	2	7.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Laverne Battery	MN	58579	1	1.0	Batteries	MWH	BA
2023	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	6	167.8	Natural Gas Steam Turbine	NG	ST
2023	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN1	18.0	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN3	18.0	Natural Gas Steam Turbine	NG	ST
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	1	0.4	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	3	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	4	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	2	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	3	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	4	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	1	0.2	Conventional Hydroelectric	WAT	HY
2025	8	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	2	0.2	Conventional Hydroelectric	WAT	HY
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	1	0.4	Conventional Hydroelectric	WAT	HY
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	2	0.3	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	1	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	2	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	2	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	3	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	5	52.0	Petroleum Liquids	DFO	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	6	48.0	Petroleum Liquids	DFO	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Carlsbad	NM	2453	5	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	2	183.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	2	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	3	10.0	Natural Gas Fired Combustion Turbine	NG	GT

Table 6.6. Planned U.S. Electric Generating Unit Retirements

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2025	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	2	670.0	Conventional Steam Coal	SUB	ST
2028	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	1	125.0	Conventional Steam Coal	BIT	ST
2028	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	2	125.0	Conventional Steam Coal	BIT	ST
2034	6	58944	Enerparc CA 1, LLC	IPP	Enerparc CA1 LLC	CA	59122	ECA11	1.5	Solar Photovoltaic	SUN	PV
2045		195	Alabama Power Co	Electric Utility	Holt Dam	AL	12	1	45.0	Conventional Hydroelectric	WAT	HY

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a signifciant portion of capacity for some technologies such as solar photovoltaic generation.
Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.
Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

Table 6.7.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels, January 2013-May 2016

	Coal	Natural Gas				Petroleum		
Period		Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Steam Turbine	Petroleum Liquids Fired Combustion Turbine	Internal Combustion Engine
Annual Factors								
2013	59.7%	48.2%	4.9%	10.6%	6.1%	12.1%	0.8%	2.2%
2014	61.0%	48.3%	5.2%	10.4%	8.5%	12.5%	1.1%	1.4%
2015	54.6%	56.3%	6.7%	11.7%	NA	14.7%	1.3%	7.5%
Year 2014								
January	71.2%	47.2%	6.6%	10.0%	7.8%	19.5%	3.8%	2.3%
February	71.9%	42.5%	4.7%	9.2%	8.7%	12.0%	0.9%	1.5%
March	61.7%	39.7%	4.7%	7.2%	7.1%	13.7%	1.1%	1.4%
April	51.1%	40.3%	3.8%	7.2%	7.9%	9.4%	0.5%	1.0%
May	54.1%	45.0%	5.0%	9.8%	7.8%	10.2%	0.6%	1.6%
June	64.8%	51.1%	5.4%	11.8%	7.6%	14.8%	0.9%	1.3%
July	67.9%	57.7%	6.2%	15.2%	9.7%	15.0%	1.0%	1.5%
August	67.5%	61.0%	6.6%	16.9%	11.0%	14.4%	1.3%	1.5%
Sept	59.2%	55.4%	5.7%	12.7%	9.5%	13.5%	0.7%	1.4%
October	50.7%	49.0%	5.2%	10.6%	8.8%	8.6%	0.7%	1.3%
November	56.0%	43.7%	4.5%	7.6%	8.3%	7.7%	0.8%	1.2%
December	56.6%	46.2%	4.1%	5.9%	7.2%	10.7%	0.6%	1.1%
Year 2015								
January	62.0%	53.2%	4.0%	6.7%	NA	13.4%	0.6%	8.2%
February	65.4%	52.8%	6.0%	8.8%	NA	23.4%	1.7%	6.7%
March	50.6%	51.1%	4.9%	8.6%	NA	8.9%	0.7%	5.5%
April	42.9%	48.3%	5.6%	10.3%	NA	12.8%	1.1%	7.1%
May	49.8%	50.6%	6.9%	9.9%	NA	13.7%	1.4%	7.1%
June	62.5%	61.8%	8.3%	14.0%	NA	13.6%	1.3%	6.5%
July	66.7%	67.7%	10.7%	19.9%	NA	18.6%	1.6%	9.2%
August	64.7%	67.6%	8.7%	19.6%	NA	18.5%	1.5%	10.3%
Sept	58.5%	61.9%	7.9%	15.0%	NA	17.4%	1.5%	7.3%
October	46.8%	54.0%	6.4%	10.8%	NA	15.0%	1.2%	6.9%
November	43.7%	51.4%	7.0%	8.3%	NA	11.3%	2.4%	7.0%
December	43.1%	55.1%	4.4%	8.0%	NA	10.6%	1.3%	8.1%
Year 2016								
January	55.4%	56.3%	4.4%	7.1%	NA	11.3%	0.5%	9.5%
February	48.1%	53.8%	4.4%	6.7%	NA	11.2%	0.5%	6.4%
March	35.5%	50.0%	7.1%	10.1%	NA	8.5%	1.3%	5.8%
April	37.4%	47.9%	8.5%	11.9%	NA	9.1%	1.0%	6.0%
May	41.0%	52.9%	7.6%	12.6%	NA	10.6%	1.3%	6.7%

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. NA = Not Available
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels, January 2013-May 2016

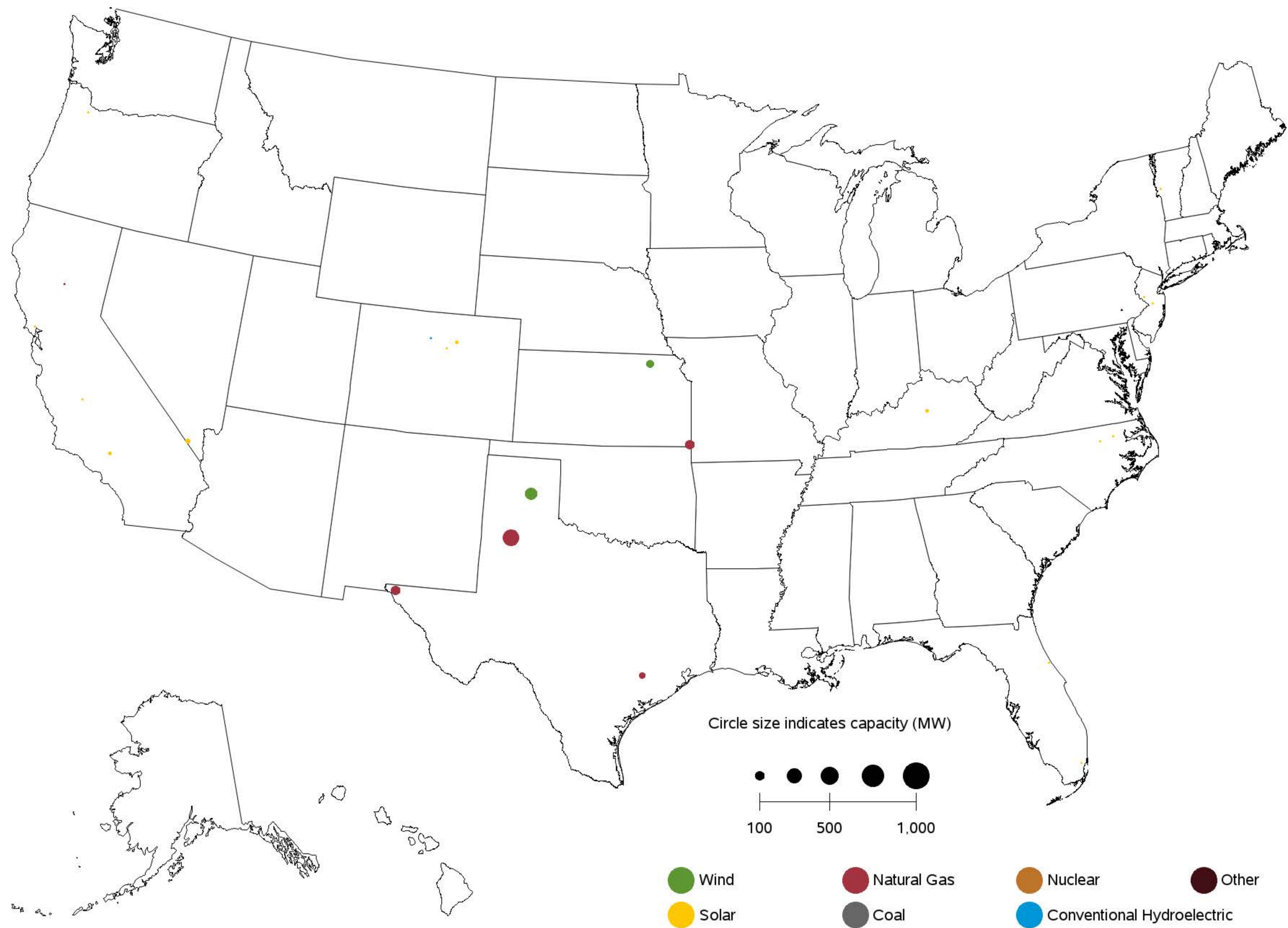
Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.2%	35.9%	32.5%	28.6%	22.7%	67.6%	52.9%	71.7%
Year 2014								
January	99.1%	36.7%	40.3%	NA	NA	68.1%	60.0%	74.0%
February	94.0%	32.6%	34.8%	NA	NA	68.3%	59.5%	73.3%
March	84.5%	40.7%	39.8%	NA	NA	69.6%	59.7%	73.5%
April	78.8%	44.5%	43.2%	NA	NA	69.9%	49.5%	74.6%
May	85.2%	44.6%	34.9%	NA	NA	70.6%	48.2%	73.2%
June	95.4%	44.8%	36.5%	NA	NA	70.8%	63.0%	73.4%
July	97.5%	41.3%	27.0%	NA	NA	73.1%	63.4%	72.5%
August	96.4%	33.7%	22.5%	30.9%	25.4%	71.1%	62.8%	73.0%
Sept	94.6%	28.2%	26.1%	30.7%	26.3%	68.9%	61.2%	74.2%
October	84.5%	29.2%	31.6%	26.5%	21.1%	64.4%	56.5%	73.9%
November	91.3%	32.6%	42.3%	22.3%	13.8%	66.1%	62.1%	77.3%
December	99.6%	37.8%	30.4%	15.1%	5.6%	65.4%	60.8%	75.5%
Year 2015								
January	101.3%	41.5%	31.7%	19.7%	5.1%	67.2%	55.3%	73.3%
February	95.8%	42.5%	34.5%	26.2%	15.9%	62.0%	58.4%	73.8%
March	88.0%	41.8%	31.7%	30.5%	24.2%	58.9%	50.5%	74.5%
April	84.2%	39.2%	37.8%	34.3%	32.5%	65.3%	41.7%	70.2%
May	89.7%	34.0%	35.2%	34.0%	31.1%	67.1%	48.0%	74.3%
June	96.4%	35.0%	28.3%	34.4%	34.5%	69.4%	54.3%	71.9%
July	97.2%	35.5%	27.7%	33.9%	35.1%	70.6%	59.9%	72.3%
August	98.6%	33.0%	26.0%	33.7%	32.8%	72.8%	61.3%	71.7%
Sept	93.5%	28.3%	28.3%	29.2%	27.5%	67.6%	52.0%	65.5%
October	82.5%	28.0%	31.9%	25.5%	16.7%	68.3%	46.3%	69.4%
November	84.8%	33.4%	39.0%	23.5%	17.1%	69.7%	51.0%	71.9%
December	94.8%	38.6%	37.5%	19.2%	9.6%	71.9%	56.0%	72.0%
Year 2016								
January	98.8%	42.4%	34.2%	17.9%	6.9%	69.2%	52.3%	72.8%
February	95.5%	43.1%	39.9%	26.6%	19.8%	66.0%	54.8%	72.8%
March	90.1%	45.1%	40.3%	27.8%	19.9%	63.5%	49.8%	72.2%
April	87.8%	44.3%	39.2%	30.7%	20.9%	68.5%	38.4%	68.3%
May	90.6%	42.5%	34.4%	34.8%	28.9%	75.2%	41.2%	73.6%

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. NA = Not Available

Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.

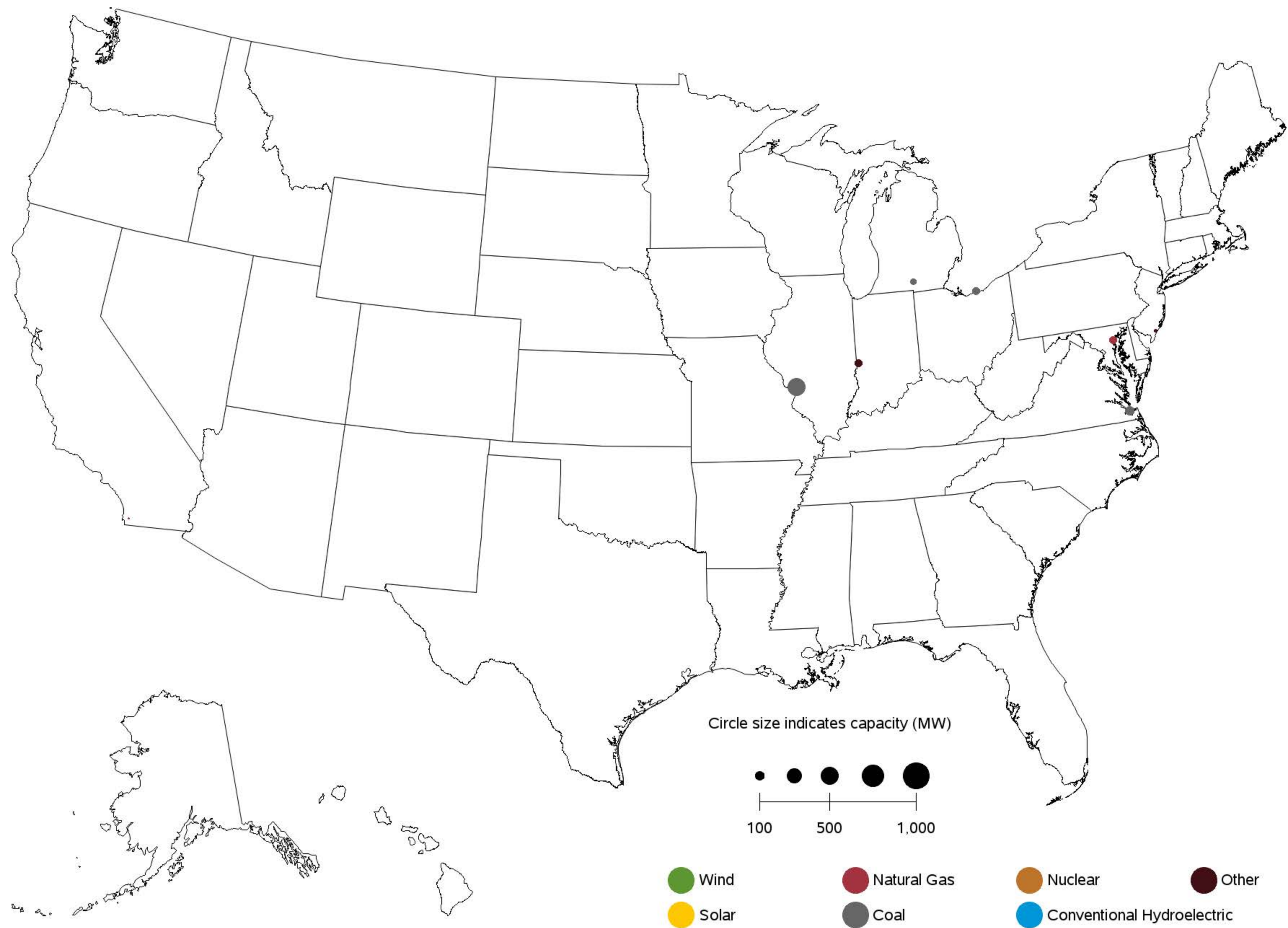
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.A. Utility-Scale Generating Units Added in May 2016



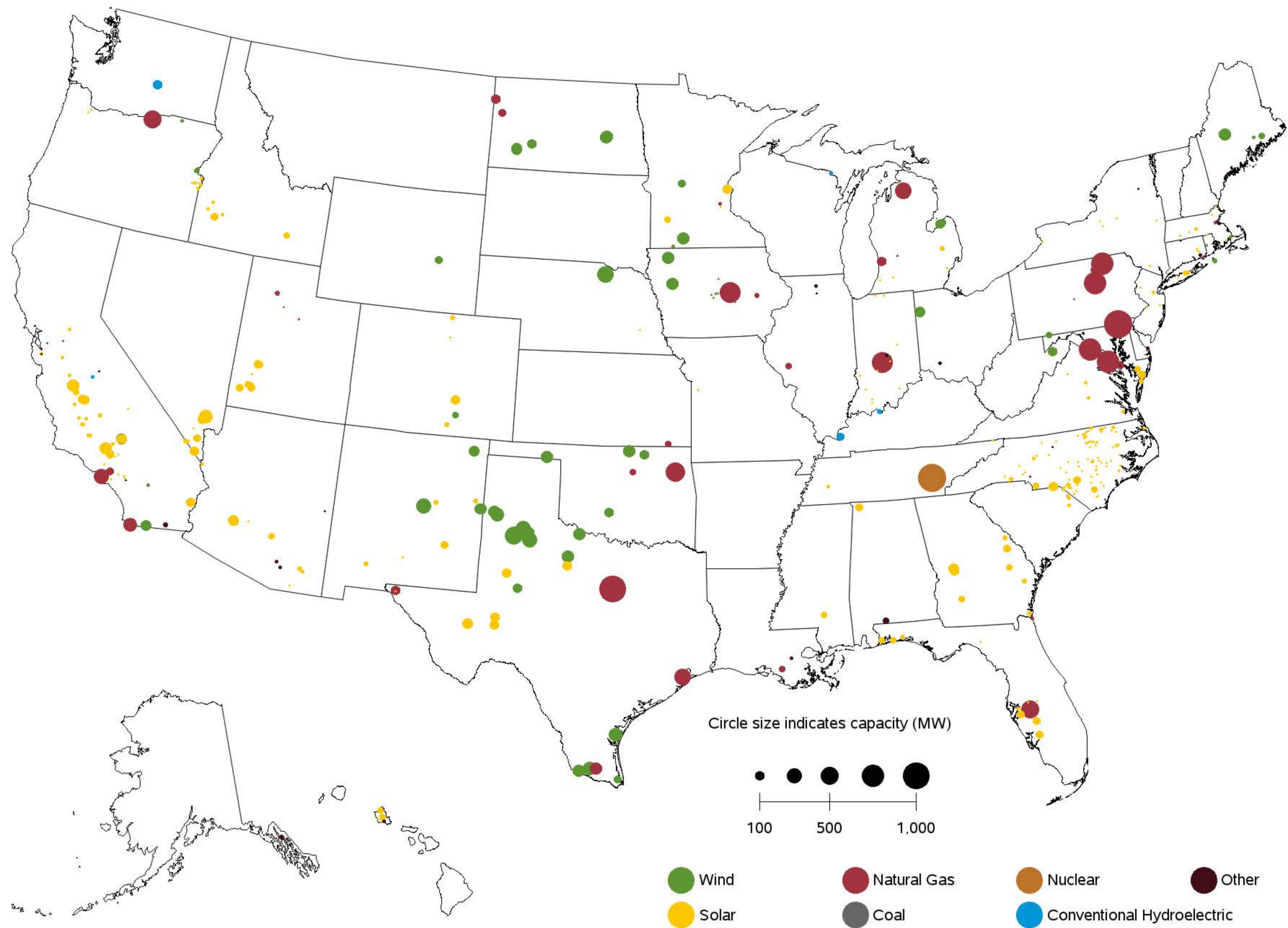
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in May 2016



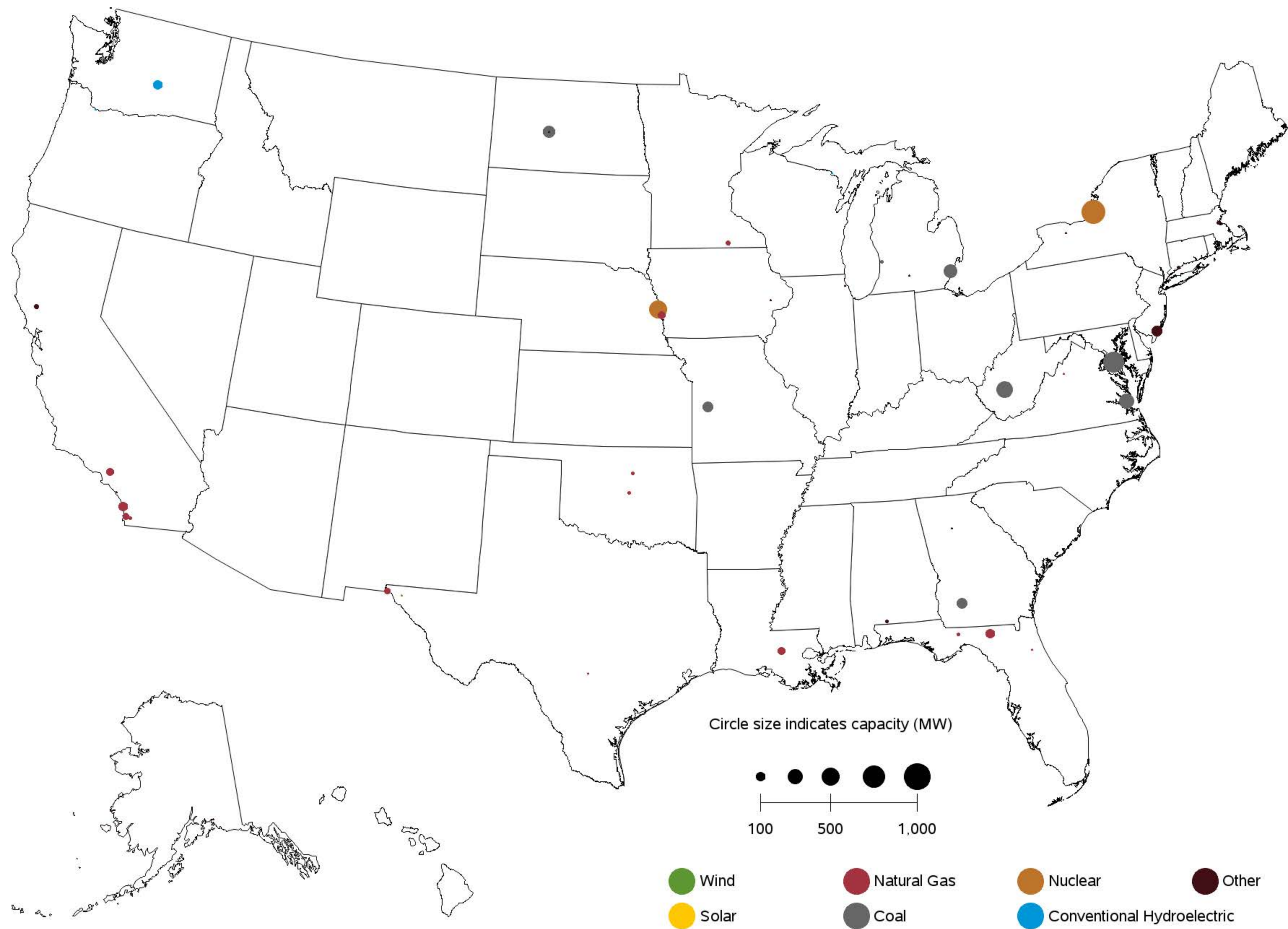
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from June 2016 to May 2017



Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.D. Utility-Scale Generating Units Planned to Retire from June 2016 to May 2017



Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

**Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:
Total (All Sectors) by Census Division and State, May 2016**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	7	45	0	2	0	0	16
Connecticut	0	39	0	3	0	0	83
Maine	0	59	0	9	0	0	23
Massachusetts	9	141	0	2	0	0	46
New Hampshire	0	106	0	2	0	0	25
Rhode Island	0	105	0	2	0	0	801
Vermont	0	556	0	0	0	0	50
Middle Atlantic	3	38	70	1	30	0	4
New Jersey	0	306	191	2	153	0	298
New York	0	91	0	2	0	0	4
Pennsylvania	3	27	74	2	17	0	15
East North Central	0	11	7	2	15	0	18
Illinois	0	6	0	4	109	0	110
Indiana	0	7	0	2	20	0	39
Michigan	3	15	19	3	0	0	32
Ohio	1	2	3	2	68	0	56
Wisconsin	0	212	0	4	0	0	26
West North Central	1	29	120	5	284	0	9
Iowa	5	36	120	12	0	0	45
Kansas	0	4	0	40	0	0	386
Minnesota	4	185	0	5	0	0	51
Missouri	0	3	0	8	0	0	9
Nebraska	3	99	0	51	0	0	36
North Dakota	2	108	0	68	284	0	0
South Dakota	0	1,322	0	35	0	0	1
South Atlantic	1	7	0	0	0	0	8
Delaware	0	89	0	5	0	0	0
District of Columbia	0	0	0	191	0	0	0
Florida	2	6	0	1	0	0	119
Georgia	1	10	0	1	0	0	22
Maryland	0	16	0	8	0	0	3
North Carolina	6	35	0	1	0	0	15
South Carolina	1	8	0	2	0	0	24
Virginia	6	3	0	1	0	0	15
West Virginia	0	0	0	1	0	0	23
East South Central	0	4	0	1	88	0	10
Alabama	1	29	0	1	274	0	15
Kentucky	1	3	0	4	0	0	10
Mississippi	0	17	0	1	0	0	0
Tennessee	0	3	0	2	0	0	20
West South Central	1	4	5	0	4	0	7
Arkansas	0	0	0	1	0	0	16
Louisiana	0	1	4	1	7	0	0
Oklahoma	9	32	0	1	0	0	10
Texas	0	6	44	1	6	0	20
Mountain	1	47	0	1	18	0	3
Arizona	0	33	0	1	0	0	2
Colorado	2	553	0	3	0	0	25
Idaho	98	11,295	0	12	0	0	8
Montana	11	196	0	59	0	0	4
Nevada	0	0	0	1	0	0	4
New Mexico	0	112	0	5	0	0	100
Utah	2	57	0	5	0	0	46
Wyoming	3	20	0	38	18	0	7
Pacific Contiguous	0	19	0	2	5	0	2
California	0	14	0	3	6	0	5
Oregon	0	28,109	0	5	0	0	3
Washington	0	212	0	7	0	0	2
Pacific Noncontiguous	12	9	0	19	109	0	31
Alaska	17	27	0	19	0	0	32
Hawaii	15	9	0	0	109	0	113
U.S. Total	0	8	3	0	7	0	2

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, May 2016 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	0	0	0	14	4	0	5	1
Connecticut	0	0	0	77	5	0	7	2
Maine	0	0	0	0	1	0	13	7
Massachusetts	0	0	0	15	8	0	6	2
New Hampshire	0	0	0	0	14	0	41	2
Rhode Island	0	0	0	93	8	0	0	2
Vermont	0	0	0	47	15	0	0	30
Middle Atlantic	0	0	0	12	2	0	4	1
New Jersey	0	0	0	13	7	0	8	1
New York	0	0	0	29	3	0	7	1
Pennsylvania	0	0	0	38	3	0	5	1
East North Central	0	0	0	18	1	0	6	0
Illinois	0	0	0	42	1	0	19	0
Indiana	0	0	0	24	2	0	3	1
Michigan	0	0	0	107	4	0	10	1
Ohio	0	0	0	40	5	0	0	1
Wisconsin	0	0	0	271	3	0	29	2
West North Central	0	0	0	69	1	0	10	1
Iowa	0	0	0	0	1	0	0	2
Kansas	0	0	0	281	0	0	158	1
Minnesota	0	0	0	137	2	0	10	2
Missouri	0	0	0	83	4	0	0	1
Nebraska	0	0	0	0	1	0	0	2
North Dakota	0	0	0	0	1	0	58	2
South Dakota	0	0	0	0	1	0	0	5
South Atlantic	0	0	0	6	2	0	3	0
Delaware	0	0	0	43	26	0	0	5
District of Columbia	0	0	0	0	0	0	0	191
Florida	0	0	0	12	4	0	3	0
Georgia	0	0	0	10	4	0	0	1
Maryland	0	0	0	26	5	0	0	1
North Carolina	0	0	0	7	5	0	17	1
South Carolina	0	0	0	139	6	0	14	1
Virginia	0	0	0	162	3	0	6	1
West Virginia	0	0	0	0	1	0	0	1
East South Central	0	0	0	41	5	0	15	0
Alabama	0	0	0	0	7	0	0	1
Kentucky	0	0	0	0	10	0	0	1
Mississippi	0	0	0	0	5	0	166	1
Tennessee	0	0	0	41	12	0	0	1
West South Central	0	0	0	9	0	0	8	0
Arkansas	0	0	0	81	6	0	0	1
Louisiana	0	0	0	0	7	0	9	1
Oklahoma	0	0	0	0	0	0	37	1
Texas	0	0	0	9	0	0	10	0
Mountain	0	7	0	2	1	0	4	1
Arizona	0	0	0	3	2	0	0	0
Colorado	0	0	0	11	1	0	53	1
Idaho	0	62	0	0	5	0	0	5
Montana	0	0	0	0	3	0	0	4
Nevada	0	7	0	3	4	0	112	1
New Mexico	0	167	0	11	2	0	9,565	2
Utah	0	13	0	9	5	0	3	2
Wyoming	0	0	0	0	2	0	0	3
Pacific Contiguous	0	5	0	2	1	0	9	1
California	0	5	0	2	1	0	9	2
Oregon	0	13	0	54	2	0	44	2
Washington	0	0	0	0	1	0	36	1
Pacific Noncontiguous	0	0	0	42	6	0	0	7
Alaska	0	0	0	0	25	0	0	13
Hawaii	0	0	0	42	5	0	0	7
U.S. Total	0	5	0	2	0	0	2	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, Year-to-Date through May 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	7	45	0	2	0	0	16
Connecticut	0	39	0	3	0	0	83
Maine	0	59	0	9	0	0	23
Massachusetts	9	141	0	2	0	0	46
New Hampshire	0	106	0	2	0	0	25
Rhode Island	0	105	0	2	0	0	801
Vermont	0	556	0	0	0	0	50
Middle Atlantic	3	38	70	1	30	0	4
New Jersey	0	306	191	2	153	0	298
New York	0	91	0	2	0	0	4
Pennsylvania	3	27	74	2	17	0	15
East North Central	0	11	7	2	15	0	18
Illinois	0	6	0	4	109	0	110
Indiana	0	7	0	2	20	0	39
Michigan	3	15	19	3	0	0	32
Ohio	1	2	3	2	68	0	56
Wisconsin	0	212	0	4	0	0	26
West North Central	1	29	120	5	284	0	9
Iowa	5	36	120	12	0	0	45
Kansas	0	4	0	40	0	0	386
Minnesota	4	185	0	5	0	0	51
Missouri	0	3	0	8	0	0	9
Nebraska	3	99	0	51	0	0	36
North Dakota	2	108	0	68	284	0	0
South Dakota	0	1,322	0	35	0	0	1
South Atlantic	1	7	0	0	0	0	8
Delaware	0	89	0	5	0	0	0
District of Columbia	0	0	0	191	0	0	0
Florida	2	6	0	1	0	0	119
Georgia	1	10	0	1	0	0	22
Maryland	0	16	0	8	0	0	3
North Carolina	6	35	0	1	0	0	15
South Carolina	1	8	0	2	0	0	24
Virginia	6	3	0	1	0	0	15
West Virginia	0	0	0	1	0	0	23
East South Central	0	4	0	1	88	0	10
Alabama	1	29	0	1	274	0	15
Kentucky	1	3	0	4	0	0	10
Mississippi	0	17	0	1	0	0	0
Tennessee	0	3	0	2	0	0	20
West South Central	1	4	5	0	4	0	7
Arkansas	0	0	0	1	0	0	16
Louisiana	0	1	4	1	7	0	0
Oklahoma	9	32	0	1	0	0	10
Texas	0	6	44	1	6	0	20
Mountain	1	47	0	1	18	0	3
Arizona	0	33	0	1	0	0	2
Colorado	2	553	0	3	0	0	25
Idaho	98	11,295	0	12	0	0	8
Montana	11	196	0	59	0	0	4
Nevada	0	0	0	1	0	0	4
New Mexico	0	112	0	5	0	0	100
Utah	2	57	0	5	0	0	46
Wyoming	3	20	0	38	18	0	7
Pacific Contiguous	0	19	0	2	5	0	2
California	0	14	0	3	6	0	5
Oregon	0	28,109	0	5	0	0	3
Washington	0	212	0	7	0	0	2
Pacific Noncontiguous	12	9	0	19	109	0	31
Alaska	17	27	0	19	0	0	32
Hawaii	15	9	0	0	109	0	113
U.S. Total	0	8	3	0	7	0	2

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, Year-to-Date through May 2016 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	0	0	0	14	4	0	5	1
Connecticut	0	0	0	77	5	0	7	2
Maine	0	0	0	0	1	0	13	7
Massachusetts	0	0	0	15	8	0	6	2
New Hampshire	0	0	0	0	14	0	41	2
Rhode Island	0	0	0	93	8	0	0	2
Vermont	0	0	0	47	15	0	0	30
Middle Atlantic	0	0	0	12	2	0	4	1
New Jersey	0	0	0	13	7	0	8	1
New York	0	0	0	29	3	0	7	1
Pennsylvania	0	0	0	38	3	0	5	1
East North Central	0	0	0	18	1	0	6	0
Illinois	0	0	0	42	1	0	19	0
Indiana	0	0	0	24	2	0	3	1
Michigan	0	0	0	107	4	0	10	1
Ohio	0	0	0	40	5	0	0	1
Wisconsin	0	0	0	271	3	0	29	2
West North Central	0	0	0	69	1	0	10	1
Iowa	0	0	0	0	1	0	0	2
Kansas	0	0	0	281	0	0	158	1
Minnesota	0	0	0	137	2	0	10	2
Missouri	0	0	0	83	4	0	0	1
Nebraska	0	0	0	0	1	0	0	2
North Dakota	0	0	0	0	1	0	58	2
South Dakota	0	0	0	0	1	0	0	5
South Atlantic	0	0	0	6	2	0	3	0
Delaware	0	0	0	43	26	0	0	5
District of Columbia	0	0	0	0	0	0	0	191
Florida	0	0	0	12	4	0	3	0
Georgia	0	0	0	10	4	0	0	1
Maryland	0	0	0	26	5	0	0	1
North Carolina	0	0	0	7	5	0	17	1
South Carolina	0	0	0	139	6	0	14	1
Virginia	0	0	0	162	3	0	6	1
West Virginia	0	0	0	0	1	0	0	1
East South Central	0	0	0	41	5	0	15	0
Alabama	0	0	0	0	7	0	0	1
Kentucky	0	0	0	0	10	0	0	1
Mississippi	0	0	0	0	5	0	166	1
Tennessee	0	0	0	41	12	0	0	1
West South Central	0	0	0	9	0	0	8	0
Arkansas	0	0	0	81	6	0	0	1
Louisiana	0	0	0	0	7	0	9	1
Oklahoma	0	0	0	0	0	0	37	1
Texas	0	0	0	9	0	0	10	0
Mountain	0	7	0	2	1	0	4	1
Arizona	0	0	0	3	2	0	0	0
Colorado	0	0	0	11	1	0	53	1
Idaho	0	62	0	0	5	0	0	5
Montana	0	0	0	0	3	0	0	4
Nevada	0	7	0	3	4	0	112	1
New Mexico	0	167	0	11	2	0	9,565	2
Utah	0	13	0	9	5	0	3	2
Wyoming	0	0	0	0	2	0	0	3
Pacific Contiguous	0	5	0	2	1	0	9	1
California	0	5	0	2	1	0	9	2
Oregon	0	13	0	54	2	0	44	2
Washington	0	0	0	0	1	0	36	1
Pacific Noncontiguous	0	0	0	42	6	0	0	7
Alaska	0	0	0	0	25	0	0	13
Hawaii	0	0	0	42	5	0	0	7
U.S. Total	0	5	0	2	0	0	2	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

**Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:
Electric Utilities by Census Division and State, May 2016**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	20	0	15	0	0	42
Connecticut	0	47	0	0	0	0	294
Maine	0	184	0	0	0	0	0
Massachusetts	0	13	0	20	0	0	114
New Hampshire	0	54	0	0	0	0	34
Rhode Island	0	22	0	0	0	0	0
Vermont	0	563	0	0	0	0	83
Middle Atlantic	0	137	0	7	0	0	2
New Jersey	0	966	0	178	0	0	0
New York	0	140	0	7	0	0	2
Pennsylvania	0	69	0	496	0	0	192
East North Central	1	17	0	2	0	0	19
Illinois	0	20	0	16	0	0	251
Indiana	0	6	0	2	0	0	39
Michigan	3	15	0	7	0	0	33
Ohio	2	4	0	9	0	0	28
Wisconsin	0	250	0	4	0	0	28
West North Central	1	28	0	6	0	0	9
Iowa	5	36	0	11	0	0	45
Kansas	0	4	0	46	0	0	0
Minnesota	4	249	0	5	0	0	67
Missouri	0	3	0	14	0	0	9
Nebraska	3	99	0	52	0	0	36
North Dakota	2	109	0	69	0	0	0
South Dakota	0	1,346	0	35	0	0	1
South Atlantic	0	10	0	0	0	0	10
Delaware	0	517	0	254	0	0	0
Florida	0	4	0	0	0	0	119
Georgia	0	5	0	0	0	0	22
Maryland	0	44	0	0	0	0	0
North Carolina	0	37	0	1	0	0	15
South Carolina	0	7	0	2	0	0	23
Virginia	0	6	0	0	0	0	13
West Virginia	0	0	0	0	0	0	78
East South Central	0	1	0	1	0	0	10
Alabama	1	0	0	5	0	0	15
Kentucky	1	3	0	3	0	0	10
Mississippi	0	18	0	1	0	0	0
Tennessee	0	0	0	0	0	0	20
West South Central	0	3	0	1	0	0	8
Arkansas	0	0	0	4	0	0	16
Louisiana	0	1	0	1	0	0	0
Oklahoma	0	5	0	1	0	0	10
Texas	0	6	0	2	0	0	19
Mountain	1	55	0	1	0	0	3
Arizona	0	33	0	1	0	0	2
Colorado	0	554	0	2	0	0	25
Idaho	0	11,295	0	20	0	0	8
Montana	185	1,045	0	62	0	0	4
Nevada	0	0	0	0	0	0	2
New Mexico	0	112	0	9	0	0	100
Utah	0	1	0	3	0	0	47
Wyoming	3	6	0	155	0	0	7
Pacific Contiguous	0	104	0	5	0	0	1
California	0	66	0	6	0	0	5
Oregon	0	0	0	2	0	0	3
Washington	0	2,473	0	14	0	0	1
Pacific Noncontiguous	0	6	0	19	0	0	32
Alaska	0	28	0	19	0	0	32
Hawaii	0	6	0	0	0	0	269
U.S. Total	0	5	0	0	0	0	1

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

**Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:
Electric Utilities by Census Division and State, May 2016 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	0	0	0	83	4	0	0	19
Connecticut	0	0	0	189	189	0	0	179
Maine	0	0	0	0	0	0	0	184
Massachusetts	0	0	0	91	46	0	0	50
New Hampshire	0	0	0	0	0	0	0	16
Rhode Island	0	0	0	0	0	0	0	22
Vermont	0	0	0	0	0	0	0	35
Middle Atlantic	0	0	0	38	38	0	0	2
New Jersey	0	0	0	38	38	0	0	25
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	179
East North Central	0	0	0	49	2	0	33	1
Illinois	0	0	0	229	98	0	0	3
Indiana	0	0	0	67	17	0	0	0
Michigan	0	0	0	107	2	0	77	2
Ohio	0	0	0	99	70	0	0	2
Wisconsin	0	0	0	0	1	0	0	2
West North Central	0	0	0	0	1	0	7	1
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	2
Minnesota	0	0	0	0	4	0	0	2
Missouri	0	0	0	0	41	0	0	1
Nebraska	0	0	0	0	12	0	0	2
North Dakota	0	0	0	0	1	0	58	2
South Dakota	0	0	0	0	1	0	0	7
South Atlantic	0	0	0	11	3	0	0	0
Delaware	0	0	0	120	120	0	0	217
Florida	0	0	0	9	4	0	0	0
Georgia	0	0	0	22	22	0	0	0
Maryland	0	0	0	103	103	0	0	57
North Carolina	0	0	0	26	26	0	0	1
South Carolina	0	0	0	0	8	0	0	1
Virginia	0	0	0	162	2	0	0	0
West Virginia	0	0	0	0	0	0	0	1
East South Central	0	0	0	0	51	0	0	1
Alabama	0	0	0	0	360	0	0	1
Kentucky	0	0	0	0	31	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	0	0	0	0	1
West South Central	0	0	0	0	0	0	0	0
Arkansas	0	0	0	0	0	0	0	1
Louisiana	0	0	0	0	0	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	0	2	0	0	1
Mountain	0	0	0	12	4	0	118	1
Arizona	0	0	0	13	13	0	0	0
Colorado	0	0	0	0	13	0	0	1
Idaho	0	0	0	0	6	0	0	7
Montana	0	0	0	0	0	0	0	5
Nevada	0	0	0	73	73	0	112	0
New Mexico	0	0	0	24	24	0	9,565	2
Utah	0	0	0	0	0	0	0	2
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	0	4	0	15	1	0	0	1
California	0	0	0	15	3	0	0	3
Oregon	0	198	0	119	2	0	0	2
Washington	0	0	0	0	1	0	0	1
Pacific Noncontiguous	0	0	0	57	24	0	0	7
Alaska	0	0	0	0	40	0	0	14
Hawaii	0	0	0	57	31	0	0	6
U.S. Total	0	3	0	7	1	0	4	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.2.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Electric Utilities by Census Division and State, Year-to-Date through May 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	20	0	15	0	0	42
Connecticut	0	47	0	0	0	0	294
Maine	0	184	0	0	0	0	0
Massachusetts	0	13	0	20	0	0	114
New Hampshire	0	54	0	0	0	0	34
Rhode Island	0	22	0	0	0	0	0
Vermont	0	563	0	0	0	0	83
Middle Atlantic	0	137	0	7	0	0	2
New Jersey	0	966	0	178	0	0	0
New York	0	140	0	7	0	0	2
Pennsylvania	0	69	0	496	0	0	192
East North Central	1	17	0	2	0	0	19
Illinois	0	20	0	16	0	0	251
Indiana	0	6	0	2	0	0	39
Michigan	3	15	0	7	0	0	33
Ohio	2	4	0	9	0	0	28
Wisconsin	0	250	0	4	0	0	28
West North Central	1	28	0	6	0	0	9
Iowa	5	36	0	11	0	0	45
Kansas	0	4	0	46	0	0	0
Minnesota	4	249	0	5	0	0	67
Missouri	0	3	0	14	0	0	9
Nebraska	3	99	0	52	0	0	36
North Dakota	2	109	0	69	0	0	0
South Dakota	0	1,346	0	35	0	0	1
South Atlantic	0	10	0	0	0	0	10
Delaware	0	517	0	254	0	0	0
Florida	0	4	0	0	0	0	119
Georgia	0	5	0	0	0	0	22
Maryland	0	44	0	0	0	0	0
North Carolina	0	37	0	1	0	0	15
South Carolina	0	7	0	2	0	0	23
Virginia	0	6	0	0	0	0	13
West Virginia	0	0	0	0	0	0	78
East South Central	0	1	0	1	0	0	10
Alabama	1	0	0	5	0	0	15
Kentucky	1	3	0	3	0	0	10
Mississippi	0	18	0	1	0	0	0
Tennessee	0	0	0	0	0	0	20
West South Central	0	3	0	1	0	0	8
Arkansas	0	0	0	4	0	0	16
Louisiana	0	1	0	1	0	0	0
Oklahoma	0	5	0	1	0	0	10
Texas	0	6	0	2	0	0	19
Mountain	1	55	0	1	0	0	3
Arizona	0	33	0	1	0	0	2
Colorado	0	554	0	2	0	0	25
Idaho	0	11,295	0	20	0	0	8
Montana	185	1,045	0	62	0	0	4
Nevada	0	0	0	0	0	0	2
New Mexico	0	112	0	9	0	0	100
Utah	0	1	0	3	0	0	47
Wyoming	3	6	0	155	0	0	7
Pacific Contiguous	0	104	0	5	0	0	1
California	0	66	0	6	0	0	5
Oregon	0	0	0	2	0	0	3
Washington	0	2,473	0	14	0	0	1
Pacific Noncontiguous	0	6	0	19	0	0	32
Alaska	0	28	0	19	0	0	32
Hawaii	0	6	0	0	0	0	269
U.S. Total	0	5	0	0	0	0	1

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.2.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Electric Utilities by Census Division and State, Year-to-Date through May 2016 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	0	0	0	83	4	0	0	19
Connecticut	0	0	0	189	189	0	0	179
Maine	0	0	0	0	0	0	0	184
Massachusetts	0	0	0	91	46	0	0	50
New Hampshire	0	0	0	0	0	0	0	16
Rhode Island	0	0	0	0	0	0	0	22
Vermont	0	0	0	0	0	0	0	35
Middle Atlantic	0	0	0	38	38	0	0	2
New Jersey	0	0	0	38	38	0	0	25
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	179
East North Central	0	0	0	49	2	0	33	1
Illinois	0	0	0	229	98	0	0	3
Indiana	0	0	0	67	17	0	0	0
Michigan	0	0	0	107	2	0	77	2
Ohio	0	0	0	99	70	0	0	2
Wisconsin	0	0	0	0	1	0	0	2
West North Central	0	0	0	0	1	0	7	1
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	2
Minnesota	0	0	0	0	4	0	0	2
Missouri	0	0	0	0	41	0	0	1
Nebraska	0	0	0	0	12	0	0	2
North Dakota	0	0	0	0	1	0	58	2
South Dakota	0	0	0	0	1	0	0	7
South Atlantic	0	0	0	11	3	0	0	0
Delaware	0	0	0	120	120	0	0	217
Florida	0	0	0	9	4	0	0	0
Georgia	0	0	0	22	22	0	0	0
Maryland	0	0	0	103	103	0	0	57
North Carolina	0	0	0	26	26	0	0	1
South Carolina	0	0	0	0	8	0	0	1
Virginia	0	0	0	162	2	0	0	0
West Virginia	0	0	0	0	0	0	0	1
East South Central	0	0	0	0	51	0	0	1
Alabama	0	0	0	0	360	0	0	1
Kentucky	0	0	0	0	31	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	0	0	0	0	1
West South Central	0	0	0	0	0	0	0	0
Arkansas	0	0	0	0	0	0	0	1
Louisiana	0	0	0	0	0	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	0	2	0	0	1
Mountain	0	0	0	12	4	0	118	1
Arizona	0	0	0	13	13	0	0	0
Colorado	0	0	0	0	13	0	0	1
Idaho	0	0	0	0	6	0	0	7
Montana	0	0	0	0	0	0	0	5
Nevada	0	0	0	73	73	0	112	0
New Mexico	0	0	0	24	24	0	9,565	2
Utah	0	0	0	0	0	0	0	2
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	0	4	0	15	1	0	0	1
California	0	0	0	15	3	0	0	3
Oregon	0	198	0	119	2	0	0	2
Washington	0	0	0	0	1	0	0	1
Pacific Noncontiguous	0	0	0	57	24	0	0	7
Alaska	0	0	0	0	40	0	0	14
Hawaii	0	0	0	57	31	0	0	6
U.S. Total	0	3	0	7	1	0	4	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.3.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, May 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	59	0	1	0	0	18
Connecticut	0	34	0	2	0	0	86
Maine	0	76	0	1	0	0	25
Massachusetts	0	274	0	2	0	0	50
New Hampshire	0	180	0	0	0	0	31
Rhode Island	0	0	0	1	0	0	801
Vermont	0	0	0	0	0	0	61
Middle Atlantic	3	40	0	1	0	0	16
New Jersey	0	329	0	2	0	0	298
New York	0	249	0	2	0	0	26
Pennsylvania	3	28	0	1	0	0	14
East North Central	0	2	0	1	18	0	63
Illinois	0	0	0	3	0	0	99
Indiana	1	6,730	0	10	0	0	0
Michigan	10	0	0	2	0	0	113
Ohio	0	1	0	1	76	0	114
Wisconsin	0	0	0	1	0	0	129
West North Central	154	544	0	4	0	0	87
Iowa	0	86	0	2,069	0	0	509
Kansas	0	0	0	0	0	0	386
Minnesota	0	604	0	6	0	0	90
Missouri	154	0	0	4	0	0	0
South Dakota	0	314	0	0	0	0	0
South Atlantic	7	7	0	1	0	0	9
Delaware	0	83	0	6	0	0	0
Florida	0	386	0	3	0	0	0
Georgia	0	32	0	1	0	0	443
Maryland	0	16	0	6	0	0	3
North Carolina	221	74	0	0	0	0	222
South Carolina	0	333	0	8	0	0	182
Virginia	200	2	0	3	0	0	212
West Virginia	1	0	0	1	0	0	4
East South Central	0	39	0	0	0	0	621
Alabama	0	41	0	0	0	0	0
Kentucky	0	0	0	0	0	0	621
Mississippi	0	0	0	0	0	0	0
Tennessee	0	76	0	625	0	0	0
West South Central	0	0	0	0	0	0	11
Arkansas	0	0	0	0	0	0	297
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	1	0	0	0
Texas	0	0	0	0	0	0	296
Mountain	13	13	0	2	0	0	24
Arizona	0	0	0	0	0	0	0
Colorado	651	0	0	13	0	0	88
Idaho	0	0	0	11	0	0	23
Montana	10	11	0	186	0	0	102
Nevada	0	0	0	7	0	0	203
New Mexico	0	0	0	2	0	0	0
Utah	155	596	0	81	0	0	454
Wyoming	117	0	0	967	0	0	401
Pacific Contiguous	0	117	0	3	0	0	22
California	0	131	0	3	0	0	26
Oregon	0	0	0	9	0	0	70
Washington	0	59	0	0	0	0	54
Pacific Noncontiguous	4	14	0	0	0	0	0
Alaska	59	0	0	0	0	0	0
Hawaii	0	14	0	0	0	0	0
U.S. Total	1	10	0	0	11	0	8

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.3.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, May 2016 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	0	0	0	14	5	0	5	1
Connecticut	0	0	0	84	5	0	7	2
Maine	0	0	0	0	2	0	13	8
Massachusetts	0	0	0	15	8	0	6	2
New Hampshire	0	0	0	0	17	0	41	2
Rhode Island	0	0	0	93	7	0	0	1
Vermont	0	0	0	47	39	0	0	45
Middle Atlantic	0	0	0	13	2	0	4	1
New Jersey	0	0	0	16	8	0	10	1
New York	0	0	0	29	3	0	6	2
Pennsylvania	0	0	0	42	3	0	6	1
East North Central	0	0	0	20	1	0	18	0
Illinois	0	0	0	42	1	0	0	0
Indiana	0	0	0	25	2	0	0	2
Michigan	0	0	0	0	6	0	18	2
Ohio	0	0	0	45	5	0	0	1
Wisconsin	0	0	0	271	7	0	0	1
West North Central	0	0	0	71	1	0	26	1
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	281	0	0	0	1
Minnesota	0	0	0	137	3	0	26	3
Missouri	0	0	0	87	4	0	0	3
Nebraska	0	0	0	0	1	0	0	1
North Dakota	0	0	0	0	1	0	0	1
South Dakota	0	0	0	0	2	0	0	2
South Atlantic	0	0	0	6	4	0	4	2
Delaware	0	0	0	47	30	0	0	6
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	41	6	0	6	2
Georgia	0	0	0	11	9	0	0	2
Maryland	0	0	0	27	5	0	0	1
North Carolina	0	0	0	7	6	0	17	13
South Carolina	0	0	0	139	56	0	124	11
Virginia	0	0	0	0	9	0	0	8
West Virginia	0	0	0	0	1	0	0	1
East South Central	0	0	0	42	12	0	0	0
Alabama	0	0	0	0	8	0	0	0
Kentucky	0	0	0	0	124	0	0	5
Mississippi	0	0	0	0	82	0	0	0
Tennessee	0	0	0	42	24	0	0	30
West South Central	0	0	0	9	0	0	38	0
Arkansas	0	0	0	81	29	0	0	1
Louisiana	0	0	0	0	31	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	9	0	0	76	0
Mountain	0	7	0	2	1	0	3	2
Arizona	0	0	0	2	2	0	0	1
Colorado	0	0	0	11	1	0	656	5
Idaho	0	62	0	0	6	0	0	7
Montana	0	0	0	0	3	0	0	8
Nevada	0	7	0	3	4	0	0	3
New Mexico	0	167	0	11	2	0	0	1
Utah	0	24	0	9	6	0	163	23
Wyoming	0	0	0	0	3	0	0	26
Pacific Contiguous	0	5	0	2	1	0	13	1
California	0	5	0	1	1	0	14	2
Oregon	0	0	0	60	2	0	44	3
Washington	0	0	0	0	1	0	36	3
Pacific Noncontiguous	0	0	0	60	6	0	0	5
Alaska	0	0	0	0	57	0	0	46
Hawaii	0	0	0	60	6	0	0	5
U.S. Total	0	5	0	2	1	0	3	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, Year-to-Date through May 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	59	0	1	0	0	18
Connecticut	0	34	0	2	0	0	86
Maine	0	76	0	1	0	0	25
Massachusetts	0	274	0	2	0	0	50
New Hampshire	0	180	0	0	0	0	31
Rhode Island	0	0	0	1	0	0	801
Vermont	0	0	0	0	0	0	61
Middle Atlantic	3	40	0	1	0	0	16
New Jersey	0	329	0	2	0	0	298
New York	0	249	0	2	0	0	26
Pennsylvania	3	28	0	1	0	0	14
East North Central	0	2	0	1	18	0	63
Illinois	0	0	0	3	0	0	99
Indiana	1	6,730	0	10	0	0	0
Michigan	10	0	0	2	0	0	113
Ohio	0	1	0	1	76	0	114
Wisconsin	0	0	0	1	0	0	129
West North Central	154	544	0	4	0	0	87
Iowa	0	86	0	2,069	0	0	509
Kansas	0	0	0	0	0	0	386
Minnesota	0	604	0	6	0	0	90
Missouri	154	0	0	4	0	0	0
South Dakota	0	314	0	0	0	0	0
South Atlantic	7	7	0	1	0	0	9
Delaware	0	83	0	6	0	0	0
Florida	0	386	0	3	0	0	0
Georgia	0	32	0	1	0	0	443
Maryland	0	16	0	6	0	0	3
North Carolina	221	74	0	0	0	0	222
South Carolina	0	333	0	8	0	0	182
Virginia	200	2	0	3	0	0	212
West Virginia	1	0	0	1	0	0	4
East South Central	0	39	0	0	0	0	621
Alabama	0	41	0	0	0	0	0
Kentucky	0	0	0	0	0	0	621
Mississippi	0	0	0	0	0	0	0
Tennessee	0	76	0	625	0	0	0
West South Central	0	0	0	0	0	0	11
Arkansas	0	0	0	0	0	0	297
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	1	0	0	0
Texas	0	0	0	0	0	0	296
Mountain	13	13	0	2	0	0	24
Arizona	0	0	0	0	0	0	0
Colorado	651	0	0	13	0	0	88
Idaho	0	0	0	11	0	0	23
Montana	10	11	0	186	0	0	102
Nevada	0	0	0	7	0	0	203
New Mexico	0	0	0	2	0	0	0
Utah	155	596	0	81	0	0	454
Wyoming	117	0	0	967	0	0	401
Pacific Contiguous	0	117	0	3	0	0	22
California	0	131	0	3	0	0	26
Oregon	0	0	0	9	0	0	70
Washington	0	59	0	0	0	0	54
Pacific Noncontiguous	4	14	0	0	0	0	0
Alaska	59	0	0	0	0	0	0
Hawaii	0	14	0	0	0	0	0
U.S. Total	1	10	0	0	11	0	8

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, Year-to-Date through May 2016 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	0	0	0	14	5	0	5	1
Connecticut	0	0	0	84	5	0	7	2
Maine	0	0	0	0	2	0	13	8
Massachusetts	0	0	0	15	8	0	6	2
New Hampshire	0	0	0	0	17	0	41	2
Rhode Island	0	0	0	93	7	0	0	1
Vermont	0	0	0	47	39	0	0	45
Middle Atlantic	0	0	0	13	2	0	4	1
New Jersey	0	0	0	16	8	0	10	1
New York	0	0	0	29	3	0	6	2
Pennsylvania	0	0	0	42	3	0	6	1
East North Central	0	0	0	20	1	0	18	0
Illinois	0	0	0	42	1	0	0	0
Indiana	0	0	0	25	2	0	0	2
Michigan	0	0	0	0	6	0	18	2
Ohio	0	0	0	45	5	0	0	1
Wisconsin	0	0	0	271	7	0	0	1
West North Central	0	0	0	71	1	0	26	1
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	281	0	0	0	1
Minnesota	0	0	0	137	3	0	26	3
Missouri	0	0	0	87	4	0	0	3
Nebraska	0	0	0	0	1	0	0	1
North Dakota	0	0	0	0	1	0	0	1
South Dakota	0	0	0	0	2	0	0	2
South Atlantic	0	0	0	6	4	0	4	2
Delaware	0	0	0	47	30	0	0	6
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	41	6	0	6	2
Georgia	0	0	0	11	9	0	0	2
Maryland	0	0	0	27	5	0	0	1
North Carolina	0	0	0	7	6	0	17	13
South Carolina	0	0	0	139	56	0	124	11
Virginia	0	0	0	0	9	0	0	8
West Virginia	0	0	0	0	1	0	0	1
East South Central	0	0	0	42	12	0	0	0
Alabama	0	0	0	0	8	0	0	0
Kentucky	0	0	0	0	124	0	0	5
Mississippi	0	0	0	0	82	0	0	0
Tennessee	0	0	0	42	24	0	0	30
West South Central	0	0	0	9	0	0	38	0
Arkansas	0	0	0	81	29	0	0	1
Louisiana	0	0	0	0	31	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	9	0	0	76	0
Mountain	0	7	0	2	1	0	3	2
Arizona	0	0	0	2	2	0	0	1
Colorado	0	0	0	11	1	0	656	5
Idaho	0	62	0	0	6	0	0	7
Montana	0	0	0	0	3	0	0	8
Nevada	0	7	0	3	4	0	0	3
New Mexico	0	167	0	11	2	0	0	1
Utah	0	24	0	9	6	0	163	23
Wyoming	0	0	0	0	3	0	0	26
Pacific Contiguous	0	5	0	2	1	0	13	1
California	0	5	0	1	1	0	14	2
Oregon	0	0	0	60	2	0	44	3
Washington	0	0	0	0	1	0	36	3
Pacific Noncontiguous	0	0	0	60	6	0	0	5
Alaska	0	0	0	0	57	0	0	46
Hawaii	0	0	0	60	6	0	0	5
U.S. Total	0	5	0	2	1	0	3	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

**Table A.4.A. Relative Standard Error for Net Generation by Fuel Type:
Commercial Sector by Census Division and State, May 2016**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	123	0	37	0	0	710
Connecticut	0	1,007	0	79	0	0	0
Maine	0	706	0	309	0	0	0
Massachusetts	0	101	0	35	0	0	710
New Hampshire	0	296	0	388	0	0	0
Rhode Island	0	280	0	218	0	0	0
Vermont	0	1,361	0	0	0	0	0
Middle Atlantic	304	99	0	38	0	0	811
New Jersey	0	710	0	110	0	0	0
New York	0	105	0	39	0	0	811
Pennsylvania	304	285	0	119	0	0	0
East North Central	52	246	0	31	0	0	936
Illinois	81	261	0	44	0	0	936
Indiana	62	1,357	0	55	0	0	0
Michigan	0	227	0	49	0	0	0
Ohio	455	195	0	128	0	0	0
Wisconsin	602	483	0	155	0	0	0
West North Central	68	179	0	56	0	0	0
Iowa	68	145	0	144	0	0	0
Minnesota	674	187	0	138	0	0	0
Missouri	0	202	0	0	0	0	0
Nebraska	0	0	0	1,065	0	0	0
North Dakota	0	241	0	0	0	0	0
South Dakota	0	503	0	0	0	0	0
South Atlantic	1,597	152	0	59	0	0	283
District of Columbia	0	0	0	191	0	0	0
Florida	0	0	0	130	0	0	0
Georgia	0	47	0	0	0	0	0
Maryland	0	1,501	0	72	0	0	0
North Carolina	0	216	0	0	0	0	268
South Carolina	0	750	0	228	0	0	971
Virginia	1,597	257	0	381	0	0	0
East South Central	0	397	0	119	0	0	0
Mississippi	0	0	0	221	0	0	0
Tennessee	0	397	0	135	0	0	0
West South Central	0	1,303	0	26	0	0	0
Arkansas	0	0	0	576	0	0	0
Louisiana	0	0	0	78	0	0	0
Oklahoma	0	25,969	0	159	0	0	0
Texas	0	1,266	0	27	0	0	0
Mountain	0	472	0	19	0	0	417
Arizona	0	472	0	33	0	0	0
Colorado	0	0	0	0	0	0	417
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	47	0	0	0
New Mexico	0	0	0	37	0	0	0
Utah	0	0	0	41	0	0	0
Pacific Contiguous	0	1,011	0	12	0	0	210
California	0	1,131	0	10	0	0	210
Oregon	0	28,109	0	253	0	0	0
Washington	0	970	0	289	0	0	0
Pacific Noncontiguous	40	167	0	431	0	0	0
Alaska	40	258	0	431	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	68	69	0	12	0	0	152

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

**Table A.4.A. Relative Standard Error for Net Generation by Fuel Type:
Commercial Sector by Census Division and State, May 2016 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	0	0	0	119	23	0	33	28
Connecticut	0	0	0	0	0	0	0	79
Maine	0	0	0	0	26	0	33	33
Massachusetts	0	0	0	119	63	0	0	31
New Hampshire	0	0	0	0	43	0	0	95
Rhode Island	0	0	0	0	136	0	0	168
Vermont	0	0	0	0	186	0	0	212
Middle Atlantic	0	0	0	28	10	0	11	18
New Jersey	0	0	0	29	17	0	0	32
New York	0	0	0	257	18	0	22	24
Pennsylvania	0	0	0	147	11	0	0	42
East North Central	0	0	0	173	11	0	12	22
Illinois	0	0	0	0	202	0	0	41
Indiana	0	0	0	0	61	0	73	41
Michigan	0	0	0	0	9	0	12	28
Ohio	0	0	0	173	139	0	0	119
Wisconsin	0	0	0	0	42	0	0	115
West North Central	0	0	0	281	33	0	52	38
Iowa	0	0	0	0	50	0	0	71
Minnesota	0	0	0	0	52	0	52	86
Missouri	0	0	0	281	281	0	0	4
Nebraska	0	0	0	0	65	0	0	116
North Dakota	0	0	0	0	0	0	0	241
South Dakota	0	0	0	0	0	0	0	503
South Atlantic	0	0	0	31	12	0	11	28
Delaware	0	0	0	228	142	0	0	142
District of Columbia	0	0	0	0	0	0	0	191
Florida	0	0	0	230	49	0	0	91
Georgia	0	0	0	178	139	0	0	99
Maryland	0	0	0	156	71	0	0	67
North Carolina	0	0	0	32	24	0	0	27
South Carolina	0	0	0	0	0	0	0	229
Virginia	0	0	0	0	9	0	11	36
East South Central	0	0	0	180	180	0	0	116
Mississippi	0	0	0	0	0	0	0	221
Tennessee	0	0	0	180	180	0	0	131
West South Central	0	0	0	200	43	0	0	24
Arkansas	0	0	0	0	122	0	0	250
Louisiana	0	0	0	0	0	0	0	78
Oklahoma	0	0	0	0	0	0	0	160
Texas	0	0	0	200	44	0	0	25
Mountain	0	0	0	34	32	0	0	19
Arizona	0	0	0	64	64	0	0	29
Colorado	0	0	0	84	67	0	0	130
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	43	43	0	0	32
New Mexico	0	0	0	0	193	0	0	36
Utah	0	0	0	0	0	0	0	41
Pacific Contiguous	0	0	0	31	8	0	0	9
California	0	0	0	31	9	0	0	7
Oregon	0	0	0	0	56	0	0	179
Washington	0	0	0	0	61	0	0	187
Pacific Noncontiguous	0	0	0	0	7	0	0	11
Alaska	0	0	0	0	36	0	0	37
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	0	0	0	15	5	0	6	8

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.4.B. Relative Standard Error for Net Generation by Fuel Type:

Commercial Sector by Census Division and State, Year-to-Date through May 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	123	0	37	0	0	710
Connecticut	0	1,007	0	79	0	0	0
Maine	0	706	0	309	0	0	0
Massachusetts	0	101	0	35	0	0	710
New Hampshire	0	296	0	388	0	0	0
Rhode Island	0	280	0	218	0	0	0
Vermont	0	1,361	0	0	0	0	0
Middle Atlantic	304	99	0	38	0	0	811
New Jersey	0	710	0	110	0	0	0
New York	0	105	0	39	0	0	811
Pennsylvania	304	285	0	119	0	0	0
East North Central	52	246	0	31	0	0	936
Illinois	81	261	0	44	0	0	936
Indiana	62	1,357	0	55	0	0	0
Michigan	0	227	0	49	0	0	0
Ohio	455	195	0	128	0	0	0
Wisconsin	602	483	0	155	0	0	0
West North Central	68	179	0	56	0	0	0
Iowa	68	145	0	144	0	0	0
Minnesota	674	187	0	138	0	0	0
Missouri	0	202	0	0	0	0	0
Nebraska	0	0	0	1,065	0	0	0
North Dakota	0	241	0	0	0	0	0
South Dakota	0	503	0	0	0	0	0
South Atlantic	1,597	152	0	59	0	0	283
District of Columbia	0	0	0	191	0	0	0
Florida	0	0	0	130	0	0	0
Georgia	0	47	0	0	0	0	0
Maryland	0	1,501	0	72	0	0	0
North Carolina	0	216	0	0	0	0	268
South Carolina	0	750	0	228	0	0	971
Virginia	1,597	257	0	381	0	0	0
East South Central	0	397	0	119	0	0	0
Mississippi	0	0	0	221	0	0	0
Tennessee	0	397	0	135	0	0	0
West South Central	0	1,303	0	26	0	0	0
Arkansas	0	0	0	576	0	0	0
Louisiana	0	0	0	78	0	0	0
Oklahoma	0	25,969	0	159	0	0	0
Texas	0	1,266	0	27	0	0	0
Mountain	0	472	0	19	0	0	417
Arizona	0	472	0	33	0	0	0
Colorado	0	0	0	0	0	0	417
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	47	0	0	0
New Mexico	0	0	0	37	0	0	0
Utah	0	0	0	41	0	0	0
Pacific Contiguous	0	1,011	0	12	0	0	210
California	0	1,131	0	10	0	0	210
Oregon	0	28,109	0	253	0	0	0
Washington	0	970	0	289	0	0	0
Pacific Noncontiguous	40	167	0	431	0	0	0
Alaska	40	258	0	431	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	68	69	0	12	0	0	152

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.4.B. Relative Standard Error for Net Generation by Fuel Type:

Commercial Sector by Census Division and State, Year-to-Date through May 2016 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	0	0	0	119	23	0	33	28
Connecticut	0	0	0	0	0	0	0	79
Maine	0	0	0	0	26	0	33	33
Massachusetts	0	0	0	119	63	0	0	31
New Hampshire	0	0	0	0	43	0	0	95
Rhode Island	0	0	0	0	136	0	0	168
Vermont	0	0	0	0	186	0	0	212
Middle Atlantic	0	0	0	28	10	0	11	18
New Jersey	0	0	0	29	17	0	0	32
New York	0	0	0	257	18	0	22	24
Pennsylvania	0	0	0	147	11	0	0	42
East North Central	0	0	0	173	11	0	12	22
Illinois	0	0	0	0	202	0	0	41
Indiana	0	0	0	0	61	0	73	41
Michigan	0	0	0	0	9	0	12	28
Ohio	0	0	0	173	139	0	0	119
Wisconsin	0	0	0	0	42	0	0	115
West North Central	0	0	0	281	33	0	52	38
Iowa	0	0	0	0	50	0	0	71
Minnesota	0	0	0	0	52	0	52	86
Missouri	0	0	0	281	281	0	0	4
Nebraska	0	0	0	0	65	0	0	116
North Dakota	0	0	0	0	0	0	0	241
South Dakota	0	0	0	0	0	0	0	503
South Atlantic	0	0	0	31	12	0	11	28
Delaware	0	0	0	228	142	0	0	142
District of Columbia	0	0	0	0	0	0	0	191
Florida	0	0	0	230	49	0	0	91
Georgia	0	0	0	178	139	0	0	99
Maryland	0	0	0	156	71	0	0	67
North Carolina	0	0	0	32	24	0	0	27
South Carolina	0	0	0	0	0	0	0	229
Virginia	0	0	0	0	9	0	11	36
East South Central	0	0	0	180	180	0	0	116
Mississippi	0	0	0	0	0	0	0	221
Tennessee	0	0	0	180	180	0	0	131
West South Central	0	0	0	200	43	0	0	24
Arkansas	0	0	0	0	122	0	0	250
Louisiana	0	0	0	0	0	0	0	78
Oklahoma	0	0	0	0	0	0	0	160
Texas	0	0	0	200	44	0	0	25
Mountain	0	0	0	34	32	0	0	19
Arizona	0	0	0	64	64	0	0	29
Colorado	0	0	0	84	67	0	0	130
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	43	43	0	0	32
New Mexico	0	0	0	0	193	0	0	36
Utah	0	0	0	0	0	0	0	41
Pacific Contiguous	0	0	0	31	8	0	0	9
California	0	0	0	31	9	0	0	7
Oregon	0	0	0	0	56	0	0	179
Washington	0	0	0	0	61	0	0	187
Pacific Noncontiguous	0	0	0	0	7	0	0	11
Alaska	0	0	0	0	36	0	0	37
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	0	0	0	15	5	0	6	8

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

**Table A.5.A. Relative Standard Error for Net Generation by Fuel Type:
Industrial Sector by Census Division and State, May 2016**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	105	118	0	44	0	0	50
Connecticut	0	715	0	73	0	0	0
Maine	0	61	0	58	0	0	49
Massachusetts	158	1,783	0	123	0	0	678
New Hampshire	0	300	0	285	0	0	0
Middle Atlantic	15	42	70	35	30	0	216
New Jersey	0	1,289	191	79	153	0	0
New York	0	41	0	69	0	0	216
Pennsylvania	33	114	74	43	17	0	0
East North Central	8	75	69	29	23	0	95
Illinois	8	1,874	0	72	109	0	0
Indiana	193	12	0	39	20	0	0
Michigan	98	456	80	60	0	0	244
Ohio	28	75	758	202	128	0	0
Wisconsin	20	367	0	61	0	0	103
West North Central	12	330	120	52	284	0	0
Iowa	12	292	120	119	0	0	0
Kansas	0	0	0	68	0	0	0
Minnesota	31	335	0	94	0	0	0
Missouri	123	0	0	658	0	0	0
Nebraska	42	0	0	236	0	0	0
North Dakota	88	1,116	0	483	284	0	0
South Atlantic	82	33	0	9	0	0	19
Delaware	0	0	0	0	0	0	0
Florida	273	86	0	17	0	0	0
Georgia	106	33	0	18	0	0	384
Maryland	0	125	0	105	0	0	0
North Carolina	374	177	0	53	0	0	815
South Carolina	67	0	0	63	0	0	0
Virginia	179	313	0	23	0	0	499
West Virginia	0	0	0	0	0	0	12
East South Central	8	82	0	15	88	0	0
Alabama	49	86	0	17	274	0	0
Kentucky	0	0	0	96	0	0	0
Mississippi	0	0	0	38	0	0	0
Tennessee	0	373	0	19	0	0	0
West South Central	242	46	54	2	6	0	0
Arkansas	0	0	0	25	0	0	0
Louisiana	0	0	72	2	7	0	0
Oklahoma	289	873	0	73	0	0	0
Texas	0	313	44	3	10	0	0
Mountain	43	251	0	15	18	0	0
Colorado	2,766	503	0	95	0	0	0
Idaho	98	0	0	94	0	0	0
Montana	280	0	0	0	0	0	0
Nevada	0	0	0	28	0	0	0
New Mexico	0	231	0	100	0	0	0
Utah	0	4,544	0	17	0	0	0
Wyoming	40	167	0	28	18	0	0
Pacific Contiguous	0	13	0	3	6	0	0
California	0	9	0	3	6	0	0
Oregon	0	0	0	87	0	0	0
Washington	0	157	0	0	0	0	0
Pacific Noncontiguous	621	204	0	328	109	0	176
Alaska	0	12	0	328	0	0	0
Hawaii	621	245	0	0	109	0	176
U.S. Total	17	81	33	2	8	0	24

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

**Table A.5.A. Relative Standard Error for Net Generation by Fuel Type:
Industrial Sector by Census Division and State, May 2016 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	0	0	0	0	3	0	29	19
Connecticut	0	0	0	0	0	0	0	73
Maine	0	0	0	0	2	0	29	17
Massachusetts	0	0	0	0	210	0	0	107
New Hampshire	0	0	0	0	0	0	0	284
Middle Atlantic	0	0	0	98	10	0	0	15
New Jersey	0	0	0	277	277	0	0	67
New York	0	0	0	0	5	0	0	22
Pennsylvania	0	0	0	105	12	0	0	17
East North Central	0	0	0	229	8	0	7	8
Illinois	0	0	0	0	0	0	19	15
Indiana	0	0	0	0	33	0	0	14
Michigan	0	0	0	0	15	0	0	24
Ohio	0	0	0	229	13	0	0	33
Wisconsin	0	0	0	0	12	0	40	17
West North Central	0	0	0	0	9	0	40	12
Iowa	0	0	0	0	28	0	0	15
Kansas	0	0	0	0	237	0	158	67
Minnesota	0	0	0	0	9	0	41	17
Missouri	0	0	0	0	144	0	0	121
Nebraska	0	0	0	0	0	0	0	44
North Dakota	0	0	0	0	147	0	0	113
South Atlantic	0	0	0	0	3	0	4	7
Delaware	0	0	0	0	65	0	0	1
Florida	0	0	0	0	8	0	4	13
Georgia	0	0	0	0	4	0	0	7
Maryland	0	0	0	0	0	0	0	30
North Carolina	0	0	0	0	9	0	0	44
South Carolina	0	0	0	0	1	0	0	5
Virginia	0	0	0	0	5	0	0	26
West Virginia	0	0	0	0	0	0	0	9
East South Central	0	0	0	0	5	0	22	5
Alabama	0	0	0	0	7	0	0	7
Kentucky	0	0	0	0	3	0	0	42
Mississippi	0	0	0	0	5	0	166	9
Tennessee	0	0	0	0	13	0	0	6
West South Central	0	0	0	0	5	0	8	2
Arkansas	0	0	0	0	6	0	0	7
Louisiana	0	0	0	0	7	0	9	2
Oklahoma	0	0	0	0	28	0	67	117
Texas	0	0	0	0	13	0	10	2
Mountain	0	0	0	193	4	0	9	10
Colorado	0	0	0	0	181	0	51	174
Idaho	0	0	0	0	2	0	0	13
Montana	0	0	0	0	110	0	0	121
Nevada	0	0	0	193	193	0	0	27
New Mexico	0	0	0	0	0	0	0	99
Utah	0	0	0	0	0	0	0	12
Wyoming	0	0	0	0	0	0	0	16
Pacific Contiguous	0	0	0	116	8	0	12	3
California	0	0	0	116	20	0	12	3
Oregon	0	0	0	0	13	0	0	20
Washington	0	0	0	0	10	0	0	9
Pacific Noncontiguous	0	0	0	0	26	0	0	108
Alaska	0	0	0	0	101	0	0	134
Hawaii	0	0	0	0	26	0	0	124
U.S. Total	0	0	0	69	2	0	4	2

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.5.B. Relative Standard Error for Net Generation by Fuel Type:

Industrial Sector by Census Division and State, Year-to-Date through May 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	105	118	0	44	0	0	50
Connecticut	0	715	0	73	0	0	0
Maine	0	61	0	58	0	0	49
Massachusetts	158	1,783	0	123	0	0	678
New Hampshire	0	300	0	285	0	0	0
Middle Atlantic	15	42	70	35	30	0	216
New Jersey	0	1,289	191	79	153	0	0
New York	0	41	0	69	0	0	216
Pennsylvania	33	114	74	43	17	0	0
East North Central	8	75	69	29	23	0	95
Illinois	8	1,874	0	72	109	0	0
Indiana	193	12	0	39	20	0	0
Michigan	98	456	80	60	0	0	244
Ohio	28	75	758	202	128	0	0
Wisconsin	20	367	0	61	0	0	103
West North Central	12	330	120	52	284	0	0
Iowa	12	292	120	119	0	0	0
Kansas	0	0	0	68	0	0	0
Minnesota	31	335	0	94	0	0	0
Missouri	123	0	0	658	0	0	0
Nebraska	42	0	0	236	0	0	0
North Dakota	88	1,116	0	483	284	0	0
South Atlantic	82	33	0	9	0	0	19
Delaware	0	0	0	0	0	0	0
Florida	273	86	0	17	0	0	0
Georgia	106	33	0	18	0	0	384
Maryland	0	125	0	105	0	0	0
North Carolina	374	177	0	53	0	0	815
South Carolina	67	0	0	63	0	0	0
Virginia	179	313	0	23	0	0	499
West Virginia	0	0	0	0	0	0	12
East South Central	8	82	0	15	88	0	0
Alabama	49	86	0	17	274	0	0
Kentucky	0	0	0	96	0	0	0
Mississippi	0	0	0	38	0	0	0
Tennessee	0	373	0	19	0	0	0
West South Central	242	46	54	2	6	0	0
Arkansas	0	0	0	25	0	0	0
Louisiana	0	0	72	2	7	0	0
Oklahoma	289	873	0	73	0	0	0
Texas	0	313	44	3	10	0	0
Mountain	43	251	0	15	18	0	0
Colorado	2,766	503	0	95	0	0	0
Idaho	98	0	0	94	0	0	0
Montana	280	0	0	0	0	0	0
Nevada	0	0	0	28	0	0	0
New Mexico	0	231	0	100	0	0	0
Utah	0	4,544	0	17	0	0	0
Wyoming	40	167	0	28	18	0	0
Pacific Contiguous	0	13	0	3	6	0	0
California	0	9	0	3	6	0	0
Oregon	0	0	0	87	0	0	0
Washington	0	157	0	0	0	0	0
Pacific Noncontiguous	621	204	0	328	109	0	176
Alaska	0	12	0	328	0	0	0
Hawaii	621	245	0	0	109	0	176
U.S. Total	17	81	33	2	8	0	24

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.5.B. Relative Standard Error for Net Generation by Fuel Type:

Industrial Sector by Census Division and State, Year-to-Date through May 2016 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	0	0	0	0	3	0	29	19
Connecticut	0	0	0	0	0	0	0	73
Maine	0	0	0	0	2	0	29	17
Massachusetts	0	0	0	0	210	0	0	107
New Hampshire	0	0	0	0	0	0	0	284
Middle Atlantic	0	0	0	98	10	0	0	15
New Jersey	0	0	0	277	277	0	0	67
New York	0	0	0	0	5	0	0	22
Pennsylvania	0	0	0	105	12	0	0	17
East North Central	0	0	0	229	8	0	7	8
Illinois	0	0	0	0	0	0	19	15
Indiana	0	0	0	0	33	0	0	14
Michigan	0	0	0	0	15	0	0	24
Ohio	0	0	0	229	13	0	0	33
Wisconsin	0	0	0	0	12	0	40	17
West North Central	0	0	0	0	9	0	40	12
Iowa	0	0	0	0	28	0	0	15
Kansas	0	0	0	0	237	0	158	67
Minnesota	0	0	0	0	9	0	41	17
Missouri	0	0	0	0	144	0	0	121
Nebraska	0	0	0	0	0	0	0	44
North Dakota	0	0	0	0	147	0	0	113
South Atlantic	0	0	0	0	3	0	4	7
Delaware	0	0	0	0	65	0	0	1
Florida	0	0	0	0	8	0	4	13
Georgia	0	0	0	0	4	0	0	7
Maryland	0	0	0	0	0	0	0	30
North Carolina	0	0	0	0	9	0	0	44
South Carolina	0	0	0	0	1	0	0	5
Virginia	0	0	0	0	5	0	0	26
West Virginia	0	0	0	0	0	0	0	9
East South Central	0	0	0	0	5	0	22	5
Alabama	0	0	0	0	7	0	0	7
Kentucky	0	0	0	0	3	0	0	42
Mississippi	0	0	0	0	5	0	166	9
Tennessee	0	0	0	0	13	0	0	6
West South Central	0	0	0	0	5	0	8	2
Arkansas	0	0	0	0	6	0	0	7
Louisiana	0	0	0	0	7	0	9	2
Oklahoma	0	0	0	0	28	0	67	117
Texas	0	0	0	0	13	0	10	2
Mountain	0	0	0	193	4	0	9	10
Colorado	0	0	0	0	181	0	51	174
Idaho	0	0	0	0	2	0	0	13
Montana	0	0	0	0	110	0	0	121
Nevada	0	0	0	193	193	0	0	27
New Mexico	0	0	0	0	0	0	0	99
Utah	0	0	0	0	0	0	0	12
Wyoming	0	0	0	0	0	0	0	16
Pacific Contiguous	0	0	0	116	8	0	12	3
California	0	0	0	116	20	0	12	3
Oregon	0	0	0	0	13	0	0	20
Washington	0	0	0	0	10	0	0	9
Pacific Noncontiguous	0	0	0	0	26	0	0	108
Alaska	0	0	0	0	101	0	0	134
Hawaii	0	0	0	0	26	0	0	124
U.S. Total	0	0	0	69	2	0	4	2

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

**Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers
by End-Use Sector, Census Division, and State, May 2016**

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	1	4	0	1
Connecticut	0	1	5	0	1
Maine	0	1	2	0	1
Massachusetts	1	1	8	0	1
New Hampshire	0	1	5	0	1
Rhode Island	0	0	0	0	0
Vermont	2	3	7	0	3
Middle Atlantic	0	0	1	0	0
New Jersey	0	0	3	0	0
New York	0	0	3	0	0
Pennsylvania	0	0	1	0	0
East North Central	0	1	1	0	0
Illinois	0	1	2	0	1
Indiana	1	1	2	0	1
Michigan	0	2	2	0	1
Ohio	0	1	2	0	1
Wisconsin	1	3	4	0	2
West North Central	0	2	3	0	1
Iowa	1	8	4	0	3
Kansas	2	1	5	0	2
Minnesota	1	4	6	0	2
Missouri	1	1	7	0	1
Nebraska	1	7	7	0	4
North Dakota	1	5	8	0	4
South Dakota	1	9	10	0	5
South Atlantic	0	0	1	0	0
Delaware	1	2	8	0	2
District of Columbia	0	0	0	0	0
Florida	1	0	4	0	0
Georgia	1	1	3	0	1
Maryland	0	0	4	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	0	3	0	1
West Virginia	0	0	0	0	0
East South Central	1	1	2	0	1
Alabama	1	1	2	0	1
Kentucky	1	2	4	0	2
Mississippi	2	1	3	0	2
Tennessee	1	2	4	0	1
West South Central	1	0	1	0	0
Arkansas	2	1	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	2	1	3	0	1
Texas	1	0	1	0	1
Mountain	0	2	2	0	1
Arizona	0	3	3	0	1
Colorado	1	5	5	0	3
Idaho	1	5	3	0	2
Montana	1	8	7	0	4
Nevada	0	3	1	0	1
New Mexico	1	8	7	0	4
Utah	1	6	2	0	2
Wyoming	1	8	3	0	3
Pacific Contiguous	0	1	2	0	1
California	0	1	2	0	1
Oregon	1	4	7	0	3
Washington	1	4	6	0	2
Pacific Noncontiguous	1	4	3	0	2
Alaska	2	10	12	0	5
Hawaii	0	0	0	0	0
U.S. Total	0	0	1	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.6.B. Relative Standard Error for Sales of Electricity to Ultimate Customers

by End-Use Sector, Census Division, and State, Year-to-Date through May 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	1	3	0	1
Connecticut	0	1	4	0	1
Maine	2	11	3	0	4
Massachusetts	1	1	6	0	1
New Hampshire	1	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	2	2	6	0	2
Middle Atlantic	0	0	1	0	0
New Jersey	0	0	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	0	0	0
East North Central	0	1	1	0	0
Illinois	1	1	1	0	0
Indiana	1	1	2	0	1
Michigan	0	2	2	0	1
Ohio	1	1	1	0	1
Wisconsin	1	3	3	0	1
West North Central	1	1	2	0	1
Iowa	1	5	3	0	2
Kansas	1	1	4	0	1
Minnesota	1	3	4	0	2
Missouri	1	1	5	0	1
Nebraska	1	6	6	0	3
North Dakota	1	3	6	0	3
South Dakota	2	7	8	0	3
South Atlantic	0	0	1	0	0
Delaware	1	1	7	0	1
District of Columbia	0	0	0	0	0
Florida	0	0	3	0	0
Georgia	1	1	2	0	1
Maryland	0	0	3	0	0
North Carolina	1	0	2	0	0
South Carolina	1	1	2	0	1
Virginia	1	0	2	0	0
West Virginia	0	0	0	0	0
East South Central	1	1	1	0	1
Alabama	1	1	1	0	1
Kentucky	1	1	3	0	1
Mississippi	2	1	3	0	1
Tennessee	1	1	3	0	1
West South Central	1	0	1	0	0
Arkansas	1	1	2	0	1
Louisiana	1	1	1	0	0
Oklahoma	1	1	3	0	1
Texas	1	0	1	0	0
Mountain	0	1	1	0	1
Arizona	0	2	2	0	1
Colorado	1	4	4	0	2
Idaho	1	3	3	0	1
Montana	1	6	5	0	3
Nevada	0	2	1	0	1
New Mexico	2	6	5	0	3
Utah	1	4	2	0	2
Wyoming	1	5	2	0	2
Pacific Contiguous	0	1	2	0	1
California	0	1	1	0	1
Oregon	1	3	6	0	2
Washington	1	3	4	0	2
Pacific Noncontiguous	10	4	2	0	3
Alaska	22	8	9	0	8
Hawaii	0	0	0	0	0
U.S. Total	0	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

**Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers
by End-Use Sector, Census Division, and State, May 2016**

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	1	3	0	0
Connecticut	0	1	9	0	1
Maine	0	1	2	0	0
Massachusetts	0	1	5	0	1
New Hampshire	0	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	1	4	6	0	2
Middle Atlantic	0	0	1	0	0
New Jersey	0	0	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	0	1	1	0	0
Illinois	0	1	3	0	1
Indiana	1	2	2	0	1
Michigan	0	1	3	0	1
Ohio	0	1	3	0	1
Wisconsin	1	2	5	0	2
West North Central	1	1	3	0	1
Iowa	1	6	6	0	3
Kansas	1	2	5	0	1
Minnesota	1	3	7	0	2
Missouri	1	2	5	0	1
Nebraska	1	6	10	0	4
North Dakota	1	4	8	0	4
South Dakota	2	7	12	0	4
South Atlantic	0	0	1	0	0
Delaware	1	2	9	0	2
District of Columbia	0	0	0	0	0
Florida	0	1	4	0	0
Georgia	1	1	3	0	1
Maryland	0	1	3	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	3	0	1
West Virginia	0	1	0	0	0
East South Central	1	1	2	0	1
Alabama	1	1	2	0	1
Kentucky	1	2	4	0	1
Mississippi	2	2	5	0	2
Tennessee	1	2	5	0	1
West South Central	1	1	2	0	0
Arkansas	2	2	4	0	1
Louisiana	1	1	2	0	1
Oklahoma	1	2	5	0	1
Texas	1	1	2	0	1
Mountain	0	2	2	0	1
Arizona	0	2	4	0	1
Colorado	1	6	8	0	3
Idaho	1	4	3	0	2
Montana	2	5	14	0	3
Nevada	0	4	2	0	1
New Mexico	2	9	12	0	5
Utah	1	6	4	0	3
Wyoming	2	6	4	0	3
Pacific Contiguous	0	1	2	0	1
California	0	1	2	0	1
Oregon	1	3	9	0	2
Washington	1	3	8	0	2
Pacific Noncontiguous	1	3	3	0	1
Alaska	2	7	11	0	4
Hawaii	0	0	0	0	0
U.S. Total	0	0	1	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.7.B. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers

by End-Use Sector, Census Division, and State, Year-to-Date through May 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	0	2	2	0
Connecticut	0	1	5	5	1
Maine	1	3	2	0	1
Massachusetts	1	1	3	0	1
New Hampshire	1	1	2	0	1
Rhode Island	0	0	0	0	0
Vermont	3	3	4	0	2
Middle Atlantic	0	0	1	0	0
New Jersey	0	0	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	1	0	0
East North Central	0	1	1	0	0
Illinois	1	1	2	0	1
Indiana	1	2	1	0	1
Michigan	0	1	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	2	4	0	1
West North Central	1	1	2	0	1
Iowa	1	5	5	0	2
Kansas	1	1	3	0	1
Minnesota	1	3	5	0	2
Missouri	2	2	4	0	1
Nebraska	2	5	7	0	3
North Dakota	1	3	6	0	2
South Dakota	2	5	9	0	3
South Atlantic	0	0	1	0	0
Delaware	2	2	7	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	3	0	0
Georgia	1	1	3	0	1
Maryland	0	0	2	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	1	2	0	0
West Virginia	0	1	0	0	0
East South Central	1	1	1	0	1
Alabama	1	1	2	0	1
Kentucky	2	2	3	0	1
Mississippi	2	2	3	0	1
Tennessee	1	2	4	0	1
West South Central	1	1	1	0	0
Arkansas	1	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	2	4	0	1
Texas	1	1	1	0	0
Mountain	0	2	2	0	1
Arizona	1	2	3	0	1
Colorado	1	4	6	0	2
Idaho	1	3	3	0	1
Montana	2	4	10	0	2
Nevada	1	3	1	0	1
New Mexico	2	7	9	0	4
Utah	2	4	3	0	2
Wyoming	2	5	3	0	2
Pacific Contiguous	0	1	2	0	0
California	0	1	2	0	0
Oregon	1	2	7	0	1
Washington	1	2	6	0	1
Pacific Noncontiguous	12	3	2	0	4
Alaska	30	7	9	0	12
Hawaii	0	0	0	0	0
U.S. Total	0	0	1	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

**Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers
by End-Use Sector, Census Division, and State, May 2016**

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	0	3	0	0
Connecticut	0	1	9	0	1
Maine	0	1	1	0	0
Massachusetts	1	1	4	0	1
New Hampshire	0	1	2	0	1
Rhode Island	0	0	0	0	0
Vermont	2	2	3	0	2
Middle Atlantic	0	0	0	0	0
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	1	0	0
East North Central	0	0	1	0	0
Illinois	0	0	1	0	0
Indiana	1	1	1	0	1
Michigan	0	1	1	0	0
Ohio	1	0	1	0	0
Wisconsin	1	1	2	0	1
West North Central	1	1	1	0	0
Iowa	1	2	3	0	1
Kansas	2	1	3	0	1
Minnesota	1	1	3	0	1
Missouri	1	1	3	0	1
Nebraska	1	2	4	0	1
North Dakota	1	1	3	0	1
South Dakota	1	3	5	0	2
South Atlantic	0	0	1	0	0
Delaware	1	1	4	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	2	0	0
Georgia	1	1	2	0	1
Maryland	0	0	2	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	1	2	0	0
West Virginia	0	0	0	0	0
East South Central	1	1	1	0	0
Alabama	1	1	1	0	1
Kentucky	1	1	2	0	1
Mississippi	2	2	3	0	1
Tennessee	1	1	2	0	1
West South Central	1	1	1	0	0
Arkansas	2	2	2	0	1
Louisiana	1	1	1	0	1
Oklahoma	2	1	3	0	1
Texas	1	1	1	0	0
Mountain	0	0	1	0	0
Arizona	0	1	2	0	0
Colorado	1	1	4	0	1
Idaho	1	1	1	0	1
Montana	1	3	8	0	1
Nevada	0	1	1	0	0
New Mexico	1	2	6	0	2
Utah	1	1	2	0	1
Wyoming	1	2	2	0	1
Pacific Contiguous	0	1	1	0	0
California	0	0	1	0	0
Oregon	1	1	3	0	1
Washington	1	1	3	0	1
Pacific Noncontiguous	1	2	1	0	1
Alaska	2	4	5	0	2
Hawaii	0	0	0	0	0
U.S. Total	0	0	0	0	0

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Table A.8.B. Relative Standard Error for Average Price of Electricity to Ultimate Customers

by End-Use Sector, Census Division, and State, Year-to-Date through May 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	1	3	2	1
Connecticut	0	1	6	5	1
Maine	1	10	3	0	3
Massachusetts	1	1	6	0	1
New Hampshire	1	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	3	3	6	0	2
Middle Atlantic	0	0	1	0	0
New Jersey	0	0	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	0	1	1	0	0
Illinois	1	1	2	0	1
Indiana	1	2	2	0	1
Michigan	0	2	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	3	4	0	2
West North Central	1	2	3	0	1
Iowa	1	6	5	0	2
Kansas	1	1	4	0	1
Minnesota	1	3	6	0	2
Missouri	2	2	5	0	1
Nebraska	2	6	8	0	3
North Dakota	1	4	7	0	3
South Dakota	2	7	10	0	3
South Atlantic	0	0	1	0	0
Delaware	1	2	8	0	2
District of Columbia	0	0	0	0	0
Florida	0	1	3	0	0
Georgia	1	1	3	0	1
Maryland	0	0	3	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	1	2	0	0
West Virginia	0	1	0	0	0
East South Central	1	1	2	0	1
Alabama	1	1	2	0	1
Kentucky	2	2	3	0	2
Mississippi	2	2	4	0	1
Tennessee	1	2	4	0	1
West South Central	1	1	1	0	0
Arkansas	1	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	2	4	0	1
Texas	1	1	1	0	0
Mountain	0	2	2	0	1
Arizona	1	2	3	0	1
Colorado	1	5	6	0	2
Idaho	1	4	4	0	2
Montana	2	6	10	0	3
Nevada	1	3	1	0	1
New Mexico	2	8	9	0	4
Utah	2	5	3	0	2
Wyoming	2	6	3	0	2
Pacific Contiguous	0	1	2	0	1
California	0	1	2	0	1
Oregon	1	3	8	0	2
Washington	1	3	6	0	2
Pacific Noncontiguous	2	3	3	0	2
Alaska	9	7	10	0	6
Hawaii	0	0	0	0	0
U.S. Total	0	0	1	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2016

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2016	1	01/10/2016 8:46 PM	01/11/2016 5:25 AM	8 Hours, 39 Minutes	ISO New England	NPCC	Maine: Connecticut: Massachusetts: Vermont: New Hampshire: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	59859
2016	1	01/22/2016 3:52 PM	01/24/2016 12:30 PM	44 Hours, 38 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	150000
2016	1	01/23/2016 7:49 AM	01/23/2016 9:05 AM	1 Hours, 16 Minutes	FirstEnergy Corp. Jersey Central Power & Light	RFC	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	50900
2016	2	02/05/2016 11:21 AM	02/06/2016 3:48 PM	28 Hours, 27 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	115057
2016	2	02/13/2016 12:44 PM	02/13/2016 4:27 PM	3 Hours, 43 Minutes	Pacific Gas & Electric Co	SERC	California:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational i	7	4300
2016	2	02/16/2016 8:35 AM	02/16/2016 5:28 PM	8 Hours, 53 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RFC	Virginia: Roanoke County, Montgomery County; West Virginia: Kanawha County, Cabell County; Tennessee: Sullivan County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	52640
2016	2	02/19/2016 10:00 PM	02/20/2016 11:13 PM	25 Hours, 13 Minutes	Detroit Edison Co	RFC	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	145314
2016	2	02/24/2016 2:45 PM	02/25/2016 5:00 AM	14 Hours, 15 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	400	284610
2016	2	02/25/2016 1:44 AM	02/25/2016 2:45 PM	13 Hours, 1 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	114190
2016	2	02/26/2016 12:01 AM	ongoing	ongoing	California Department of Water Resources	WECC	California: San Bernardino County	Fuel supply emergencies that could impact electric power system adequacy or reliability- Fuel Supply	0	0
2016	3	03/01/2016 3:00 PM	ongoing	ongoing	Puget Sound Energy	WECC	Washington: King County, Whatcom County, Kitsap County, Skagit County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	56000
2016	3	03/03/2016 11:00 AM	04/16/2016 7:47 PM	1,064 Hours, 47 Minutes	California Department of Water Resources	WECC	California: San Bernardino County;	Fuel supply emergencies that could impact electric power system adequacy or reliability- Fuel Supply	0	0
2016	3	03/23/2016 5:00 AM	03/25/2016 11:59 PM	66 Hours, 59 Minutes	Xcel Energy/Public Service Company of Colorado	WECC	Colorado: Denver, City and County of[12];	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	0	0
2016	4	04/02/2016 11:08 AM	04/02/2016 11:33 AM	0 Hours, 25 Minutes	California Department of Water Resources	WECC	California:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a sing	360	0
2016	4	04/18/2016 5:05 AM	04/20/2016 7:55 AM	50 Hours, 50 Minutes	CenterPoint Energy	TRE	Texas: Harris County	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	415103
2016	4	04/27/2016 5:50 AM	04/28/2016 1:35 AM	19 Hours, 45 Minutes	CenterPoint Energy	TRE	Texas: Harris County	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	214864
2016	5	05/08/2016 9:12 AM	ongoing	ongoing	Peak Reliability	WECC	Washington: Clark County;	Islanding-Islanding	Unknown	Unknown
2016	5	05/10/2016 8:45 PM	05/13/2016 3:00 AM	54 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Tarrant County, Parker County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Distribution Interruption	Unknown	85000
2016	5	05/19/2016 9:36 PM	05/20/2016 1:00 AM	3 Hours, 24 Minutes	Pacificcorp	WECC	Utah:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a sing	461	85179
2016	5	05/20/2016 12:00 AM	05/22/2016 5:00 AM	53 Hours, 0 Minutes	Entergy Services, Inc.	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more-Distribution Interruption	Unknown	85000
2016	5	05/20/2016 1:15 AM	ongoing	ongoing	Entergy Transmission - SOC	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	57184
2016	5	05/31/2016 7:30 AM	06/13/2016 7:27 AM	311 Hours, 57 Minutes	Upstate New York Power Producers	NPCC	New York: Tompkins County;	Fuel supply emergencies that could impact electric power system adequacy or reliability- Fuel Supply	150	Unknown

Note: Customers affected are estimates and are preliminary.Source: Form OE-417, 'Electric Emergency Incident and Disturbance Report.'

Table B.2 Major Disturbances and Unusual Occurrences, 2015

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2015	1	01/07/2015 5:00 PM	01/08/2015 8:35 AM	15 Hours, 35 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee	Public appeal to reduce the use of electricity - Severe Weather - Winter	Unknown	Unknown
2015	1	01/07/2015 5:00 PM	01/08/2015 8:35 AM	15 Hours, 35 Minutes	Tennessee Valley Authority	SERC	Tennessee, Kentucky, Virginia, North Carolina, Georgia, Alabama, Missouri	Public appeal to reduce the use of electricity - Severe Weather - Winter	Unknown	Unknown
2015	2	02/06/2015 8:58 PM	.	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	Northern California	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Wind	Unknown	65000
2015	2	02/16/2015 9:00 PM	02/18/2015 2:00 PM	41 Hours, 0 Minutes	Tennessee Valley Authority	SERC	Tennessee, Kentucky, Virginia, North Carolina, Georgia, Alabama, Missouri	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Winter	Unknown	67189
2015	2	02/16/2015 9:41 PM	02/18/2015 7:00 AM	33 Hours, 19 Minutes	Southern Company	SERC	Northern/North Eastern, Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Winter	620	186035
2015	2	02/17/2015 2:12 AM	02/18/2015 4:00 PM	37 Hours, 48 Minutes	Duke Energy Carolinas	SERC	North Carolina, South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Winter	Unknown	68000
2015	2	02/17/2015 9:00 AM	02/18/2015 11:00 PM	38 Hours, 0 Minutes	Duke Energy Progress	SERC	North Carolina, South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Winter	Unknown	52000
2015	2	02/18/2015 3:00 PM	02/20/2015 9:00 AM	42 Hours, 0 Minutes	Tennessee Valley Authority	SERC	Tennessee, Kentucky, Virginia, North Carolina, Georgia, Alabama, Missouri	Public appeal to reduce the use of electricity - Severe Weather - Winter	Unknown	Unknown
2015	2	02/20/2015 6:00 AM	02/20/2015 10:00 AM	4 Hours, 0 Minutes	Duke Energy Progress	SERC	North Carolina, South Carolina	System-wide voltage reductions of 3 percent or more - Severe Weather - Winter	Unknown	Unknown
2015	2	02/21/2015 8:34 AM	02/21/2015 12:45 PM	4 Hours, 11 Minutes	Tennessee Valley Authority	SERC	Fentress County, Tennessee	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Winter	Unknown	50000
2015	2	02/26/2015 3:12 AM	02/26/2015 8:00 PM	16 Hours, 48 Minutes	Duke Energy Progress	SERC	North Carolina, South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Winter	Unknown	124000
2015	2	02/26/2015 3:30 AM	02/27/2015 12:00 PM	32 Hours, 30 Minutes	Duke Energy Carolinas	SERC	North Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Winter	400	103776
2015	3	03/15/2015 3:30 PM	03/15/2015 7:00 PM	3 Hours, 30 Minutes	Portland General Electric Co	WECC	Greater Portland & Salem, Oregon	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Wind	210	71000
2015	3	03/26/2015 3:21 PM	03/26/2015 4:59 PM	1 Hours, 38 Minutes	Pacific Gas & Electric Co	WECC	Contra Costa County, California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	15	Unknown
2015	4	04/03/2015 2:00 AM	04/03/2015 7:48 AM	5 Hours, 48 Minutes	Westar Energy Inc	SPP	Harvey, Reno, and Sedgwick Counties, Kansas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Thunderstorms	Unknown	70000
2015	4	04/06/2015 8:12 AM	04/06/2015 12:08 PM	3 Hours, 56 Minutes	Pacific Gas & Electric Co	WECC	Butte County, California	Loss of electric service to more than 50,000 customers for 1 hour or more - System Operations	Unknown	80000
2015	4	04/07/2015 12:30 PM	04/07/2015 5:34 PM	5 Hours, 4 Minutes	Potomac Electric Power Co	RFC	Unknown	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - System Operations	Unknown	Unknown
2015	4	04/07/2015 3:34 PM	04/07/2015 3:46 PM	0 Hours, 12 Minutes	WAPA Sierra Nevada Region	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	0	0
2015	4	04/17/2015 9:16 AM	04/17/2015 11:00 AM	1 Hours, 44 Minutes	Peak Reliability	WECC	Canada	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	9300	Unknown
2015	4	04/17/2015 9:30 PM	04/19/2015 11:50 PM	50 Hours, 20 Minutes	CenterPoint Energy	TRE	Houston, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	280982
2015	4	04/18/2015 9:00 PM	04/21/2015 4:00 AM	55 Hours, 0 Minutes	Oncor Electric Delivery Company LLC	TRE	Dallas, Fort Worth, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	89000
2015	4	04/24/2015 7:10 PM	04/26/2015 4:00 PM	44 Hours, 50 Minutes	Oncor Electric Delivery Company LLC	TRE	Dallas, Fort Worth, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	57000
2015	4	04/27/2015 10:30 AM	04/28/2015 6:45 PM	32 Hours, 15 Minutes	Entergy Services, Inc.	SERC	Louisiana and Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	199000
2015	5	05/18/2015 3:28 PM	05/18/2015 3:47 PM	0 Hours, 19 Minutes	Peak Reliability for BCHA	WECC	Washington	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - Severe Weather	275	0
2015	5	05/25/2015 6:00 PM	05/29/2015 7:15 AM	85 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	North Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	454000
2015	5	05/25/2015 8:30 PM	.	. Hours, . Minutes	Southwest Power Pool, Inc.	SPP	Texas, Louisiana, Arkansas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	57351
2015	5	05/25/2015 8:30 PM	05/26/2015 6:30 PM	22 Hours, 0 Minutes	American Electric Power - (SPP Reliability Region)	SPP	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	57531
2015	5	05/25/2015 10:45 PM	05/28/2015 1:25 AM	50 Hours, 40 Minutes	CenterPoint Energy	TRE	Fort Bend County, & Harris County, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	61000
2015	5	05/26/2015 5:30 AM	05/27/2015 7:00 PM	37 Hours, 30 Minutes	Entergy Services, Inc.	SERC	Texas, Louisiana, Arkansas, Mississippi	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	78515
2015	6	06/01/2015 7:19 PM	06/02/2015 8:36 AM	13 Hours, 17 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	5	484
2015	6	06/02/2015 6:58 PM	06/02/2015 7:24 PM	0 Hours, 26 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	5	727

Table B.2 Major Disturbances and Unusual Occurrences, 2015

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2015	6	06/03/2015 3:00 PM	06/05/2015 5:00 PM	50 Hours, 0 Minutes	ERCOT	TRE	Texas	Public appeal to reduce the use of electricity - System Operations	Unknown	Unknown
2015	6	06/07/2015 1:52 PM	06/07/2015 2:13 PM	0 Hours, 21 Minutes	Tennessee Valley Authority	SERC	Tennessee	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - System Operations	Unknown	Unknown
2015	6	06/07/2015 1:54 PM	06/07/2015 2:13 PM	0 Hours, 19 Minutes	Memphis Light Gas and Water Division	SERC	Shelby County, Tennessee	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident and System-wide voltage reductions of 3 percent or more - System Operations	926	Unknown
2015	6	06/08/2015 12:00 AM	.	. Hours, . Minutes	California Department of Water Resources	WECC	Merced County, California	Fuel supply emergencies that could impact electric power system adequacy or reliability - System Operations	176	Unknown
2015	6	06/23/2015 5:06 PM	06/26/2015 4:00 PM	70 Hours, 54 Minutes	Delmarva Power & Light Company	RFC	New Castle County, Delaware	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	65000
2015	6	06/23/2015 5:30 PM	06/23/2015 7:00 PM	1 Hours, 30 Minutes	Exelon Corporation / PECO	RFC	Delaware County, PA; Chester County, PA	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	200000
2015	6	06/23/2015 6:00 PM	06/30/2015 6:00 PM	168 Hours, 0 Minutes	Atlantic City Electric Co	RFC	Gloucester County, Burlington County, Atlantic County, Cape May County, New Jersey	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	263000
2015	6	06/23/2015 6:18 PM	06/23/2015 8:30 PM	2 Hours, 12 Minutes	PJM Interconnection	RFC	New Jersey	Load shedding of 100 Megawatts or more implemented under emergency operational policy and Loss of electric service to more than 50,000 customers for 1 hour or more - System Operations	198	156338
2015	6	06/23/2015 6:26 PM	.	. Hours, . Minutes	Public Service Electric & Gas	NPCC	New Jersey	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	90	73000
2015	6	06/23/2015 6:30 PM	06/24/2015 5:00 AM	10 Hours, 30 Minutes	ISO New England	NPCC	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	62442
2015	6	06/26/2015 2:00 AM	.	. Hours, . Minutes	Kansas City Power & Light Co	SPP	Kansas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	110000
2015	6	06/27/2015 5:00 PM	06/30/2015 5:18 PM	72 Hours, 18 Minutes	Detroit Edison Co	RFC	Wayne County, Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	68000
2015	6	06/29/2015 7:21 PM	06/29/2015 7:42 PM	0 Hours, 21 Minutes	Peak Reliability	WECC	Washington	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - Severe Weather	0	0
2015	6	06/30/2015 10:50 AM	07/01/2015 9:00 PM	34 Hours, 10 Minutes	Pacific Gas & Electric Co	WECC	California	Public appeal to reduce the use of electricity - Severe Weather	Unknown	Unknown
2015	6	06/30/2015 2:00 PM	06/30/2015 9:00 PM	7 Hours, 0 Minutes	California ISO	WECC	California	Public appeal to reduce the use of electricity - Severe Weather	Unknown	Unknown
2015	7	07/03/2015 5:17 PM	07/03/2015 11:30 PM	6 Hours, 13 Minutes	ERCOT	TRE	Texas	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - System Operations	350	30000
2015	7	07/13/2015 2:14 PM	07/16/2015 6:00 AM	63 Hours, 46 Minutes	Duke Energy Ohio Inc	RFC	Ohio, Kentucky	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	480	68339
2015	7	07/13/2015 7:40 PM	07/15/2015 12:15 PM	40 Hours, 35 Minutes	American Electric Power - (RFC Reliability Region)	RFC	Virginia	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	52739
2015	7	07/14/2015 3:29 PM	07/15/2015 11:55 AM	20 Hours, 26 Minutes	Entergy Services, Inc.	SPP	Arkansas	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - Severe Weather	Unknown	Unknown
2015	7	07/14/2015 8:00 PM	07/15/2015 9:23 AM	13 Hours, 23 Minutes	Southern Company	SERC	Alabama	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	366	111644
2015	7	07/15/2015 2:00 AM	07/15/2015 2:55 AM	0 Hours, 55 Minutes	California Department of Water Resources	WECC	California	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - System Operations	360	0
2015	7	07/16/2015 4:45 PM	07/16/2015 5:48 PM	1 Hours, 3 Minutes	American Electric Power - (SPP Reliability Region)	SPP	Texas	Load shedding of 100 Megawatts or more implemented under emergency operational policy - System Operations	117	17311
2015	7	07/18/2015 2:00 AM	07/19/2015 7:00 AM	29 Hours, 0 Minutes	Northern States Power Co	MRO	Henepin and Ramsey County, Minnesota	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	250	250000
2015	7	07/18/2015 6:26 PM	07/18/2015 9:03 PM	2 Hours, 37 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	30	70
2015	7	07/18/2015 7:59 PM	07/18/2015 10:45 PM	2 Hours, 46 Minutes	Pacific Gas & Electric Co	WECC	California	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	160	78164
2015	7	07/21/2015 12:47 PM	07/21/2015 1:12 PM	0 Hours, 25 Minutes	Peak Reliability	WECC	Washington	Load shedding of 100 Megawatts or more implemented under emergency operational policy - System Operations	200	Unknown
2015	7	07/27/2015 3:52 AM	07/27/2015 4:36 AM	0 Hours, 44 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	Unknown	484
2015	7	07/28/2015 12:05 PM	07/28/2015 12:26 PM	0 Hours, 21 Minutes	Puerto Rico Electric Power Authority	N/A	Puerto Rico	System-wide voltage reductions of 3 percent or more - System Operations	150	Unknown

Table B.2 Major Disturbances and Unusual Occurrences, 2015

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2015	7	07/29/2015 4:45 PM	07/29/2015 9:00 PM	4 Hours, 15 Minutes	Long Island Power Authority	NPCC	New York	Fuel supply emergencies that could impact electric power system adequacy or reliability - System Operations	500	0
2015	7	07/30/2015 9:50 AM	07/30/2015 7:00 PM	9 Hours, 10 Minutes	ERCOT	TRE	Texas	Public appeal to reduce the use of electricity - System Operations	Unknown	Unknown
2015	7	07/31/2015 10:55 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	Washington	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	9	0
2015	8	08/02/2015 5:45 PM	08/04/2015 3:00 AM	33 Hours, 15 Minutes	Consumers Energy Co	RFC	Emmet County, Grand Traverse County, Leelanau County, Kalkaska County, Benzie County, Manistee County, Wexford County, Missaukee County, Mecosta County, Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	162000
2015	8	08/03/2015 12:30 AM	08/03/2015 2:00 AM	1 Hours, 30 Minutes	Exelon Corporation / ComEd	RFC	Illinois	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	115000
2015	8	08/03/2015 1:00 AM	08/05/2015 12:00 AM	47 Hours, 0 Minutes	Detroit Edison Co	RFC	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	72520
2015	8	08/04/2015 7:17 AM	08/05/2015 12:52 PM	29 Hours, 35 Minutes	ISO New England	NPCC	Massachusetts and Rhode Island	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	132000
2015	8	08/11/2015 7:30 PM	08/13/2015 4:05 AM	32 Hours, 35 Minutes	CenterPoint Energy	TRE	Houston, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	100000
2015	8	08/13/2015 3:15 PM	08/13/2015 7:00 PM	3 Hours, 45 Minutes	ERCOT	TRE	Williamson County, Texas	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system - Other	Unknown	Unknown
2015	8	08/27/2015 9:51 PM	08/28/2015 6:00 PM	20 Hours, 9 Minutes	Puerto Rico Electric Power Authority	WECC	Puerto Rico	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident / Loss of electric service to more than 50,000 customers for 1 hour or more - System Operations	360	Unknown
2015	8	08/29/2015 10:00 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	Washington	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	500000
2015	8	08/29/2015 11:00 AM	09/04/2015 3:00 PM	148 Hours, 0 Minutes	Puget Sound Energy	WECC	King County, Skagit County, Whatcom County, Kitsap County, Pierce County, Thurston County, Island County, Washington	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	250	250000
2015	8	08/29/2015 1:00 PM	08/31/2015 7:00 AM	42 Hours, 0 Minutes	Seattle City Light	WECC	King County, Washington	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	1200	64000
2015	9	09/03/2015 2:33 AM	09/03/2015 6:25 AM	3 Hours, 52 Minutes	Lansing Board of Water & Light	RFC	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	50114
2015	9	09/20/2015 1:12 PM	09/20/2015 1:44 PM	0 Hours, 32 Minutes	California ISO	WECC	California	Load shedding of 100 Megawatts or more implemented under emergency operational policy - System Operations	150	Unknown
2015	10	10/13/2015 10:25 AM	10/13/2015 6:00 PM	7 Hours, 35 Minutes	ERCOT	TRE	Texas	Public appeal to reduce the use of electricity - Other	Unknown	Unknown
2015	10	10/13/2015 4:32 PM	10/13/2015 8:39 PM	4 Hours, 7 Minutes	California ISO	WECC	California	Public appeal to reduce the use of electricity - Other	41788	Unknown
2015	10	10/18/2015 7:00 AM	10/18/2015 11:29 PM	16 Hours, 29 Minutes	Pacific Gas & Electric Co	WECC	Central Coast area, California	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	88	55677
2015	10	10/23/2015 9:42 AM	10/23/2015 1:26 PM	3 Hours, 44 Minutes	Puerto Rico Electric Power Authority	N/A	Puerto Rico	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational / Load shedding of 100 Megawatts or more implemented under emergency operational policy / System-wide voltage reductions of 3 percent or more / Loss of electric service to more than 50,000 customers for 1 hour or more - System Operations	500	300000
2015	10	10/31/2015 12:45 AM	11/01/2015 4:05 PM	39 Hours, 20 Minutes	CenterPoint Energy	TRE	Harris County, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	130252

Note: Customers affected are estimates and are preliminary.Source: Form OE-417, 'Electric Emergency Incident and Disturbance Report.'

Appendix C

Technical notes

This appendix describes how the U. S. Energy Information Administration (EIA) collects, estimates, and reports electric power data in the EPM.

Data quality

The EPM is prepared by the Office of Electricity, Renewables & Uranium Statistics (ERUS), Energy Information Administration (EIA), U. S. Department of Energy. Quality statistics begin with the collection of the correct data. To assure this, ERUS performs routine reviews of the data collected and the forms on which it is collected. Additionally, to assure that the data are collected from the correct parties, ERUS routinely reviews the frames for each data collection.

Automatic, computerized verification of keyed input, review by subject matter specialists, and follow-up with nonrespondents assure quality statistics. To ensure the quality standards established by the EIA, formulas that use the past history of data values in the database have been designed and implemented to check data input for errors automatically. Data values that fall outside the ranges prescribed in the formulas are verified by telephoning respondents to resolve any discrepancies. All survey nonrespondents are identified and contacted.

Reliability of data

There are two types of errors possible in an estimate based on a sample survey: sampling and non-sampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Non-sampling errors can be attributed to many sources in the collection and processing of data. The accuracy of survey results is determined by the joint effects of sampling and non-sampling errors. Monthly sample survey data have both sampling and non-sampling error. Annual survey data are collected by a census and are not subject to sampling error.

Non-sampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases in the sample (i.e., nonresponse); (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. Note that for the cutoff sampling and model-based regression (ratio) estimation that we use, data 'missing' due to nonresponse, and data 'missing' due to being out-of-sample are treated in the same manner. Therefore missing data may be considered to result in sampling error, and variance estimates reflect all missing data.

Although no direct measurement of the biases due to non-sampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. See the Data Processing and Data System Editing section for each EIA form for an in-depth discussion of how the sampling and non-sampling errors are handled in each case.

Relative Standard Error: The relative standard error (RSE) statistic, usually given as a percentage, describes the magnitude of sampling error that might reasonably be incurred. The RSE is the square root of the estimated variance, divided by the variable of interest. The variable of interest may be the ratio of two variables, or a single variable.

The sampling error may be less than the non-sampling error. In fact, large RSE estimates found in preliminary work with these data have often indicated non-sampling errors, which were then identified and corrected. Non-sampling errors may be attributed to many sources, including the response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding data obtained, and other errors of collection, response, or coverage. These non-sampling errors also occur in complete censuses.

Using the Central Limit Theorem, which applies to sums and means such as are applicable here, there is approximately a 68 percent chance that the true total or mean is within one RSE of the estimated total or mean. Note that reported RSEs are always estimates themselves, and are usually, as here, reported as percentages. As an example, suppose that a net generation from coal value is estimated to be 1,507 million kilowatthours with an estimated RSE of 4.9 percent. This means that, ignoring any non-sampling error, there is approximately a 68 percent chance that the true million kilowatthour value is within approximately 4.9 percent of 1,507 million kilowatthours (that is, between 1,433 and 1,581 million kilowatthours). Also under the Central Limit Theorem, there is approximately a 95 percent chance that the true mean or total is within 2 RSEs of the estimated mean or total.

Note that there are times when a model may not apply, such as in the case of a substantial reclassification of sales, when the relationship between the variable of interest and the regressor data does not hold. In such a case, the new information may represent only itself, and such numbers are added to model results when estimating totals. Further, there are times when sample data may be known to be in error, or are not reported. Such cases are treated as if they were never part of the model-based sample, and values are imputed. Experiments were done to see if nonresponse should be treated differently, but it was decided to treat those cases the same as out-of-sample cases.

Relative Standard Error With Respect to a Superpopulation: The RSESP statistic is similar to the RSE (described above). Like the RSE, it is a statistic designed to estimate the variability of data and is usually given as a percentage. However, where the RSE is only designed to estimate the magnitude of sampling error, the RSESP more fully reflects the impact of variability from sampling and non-sampling errors. This is a more complete measure than RSE in that it can measure statistical variability in a complete census in addition to a sample^{21,24}. In addition to being a measure of data variability, the RSESP can also be useful in comparing different models that are applied to the same set of data²². This capability is used to test different regression models for imputation and prediction. This testing may include considerations such as comparing different regressors, the comparative reliability of different monthly samples, or the use of different geographical strata or groupings for a given model. For testing purposes, ERUS typically uses recent historical data that have been finalized. Typically, time-series graphics showing two or more models or samples are generated showing the RSESP values over time. In selecting models, consideration is given to total survey error as well as any apparent differences in robustness.

Imputation: For monthly data, if the reported values appeared to be in error and the data issue could not be resolved with the respondent, or if the facility was a nonrespondent, a regression methodology is used to impute for the facility. The same procedure is used to estimate ("predict") data for facilities not in the monthly sample. The regression methodology relies on other data to make estimates for erroneous or missing responses.

Estimation for missing monthly data is accomplished by relating the observed data each month to one or more other data elements (regressors) for which we generally have an annual census. Each year, when new annual regressor data are available, recent monthly relationships are updated, causing slight revisions to estimated monthly results. These revisions are made as soon as the annual data are released.

The basic technique employed is described in the paper "Model-Based Sampling and Inference¹⁶," on the EIA website. Additional references can be found on the InterStat website (<http://interstat.statjournals.net/>). The basis for the current methodology involves a 'borrowing of strength' technique for small domains.

Data revision procedure

ERUS has adopted the following policy with respect to the revision and correction of recurrent data in energy publications:

- Annual survey data are disseminated either as preliminary or final when first appearing in a data product. Data initially released as preliminary will be so noted in the data product. These data are typically released as final by the next dissemination of the same product; however, if final data are available at an earlier interval they may be released in another product.
- All monthly survey data are first disseminated as preliminary. These data are revised after the prior year's data are finalized and are disseminated as revised preliminary. No revisions are made to the published data before this or subsequent to these data being finalized unless significant errors are discovered.
- After data are disseminated as final, further revisions will be considered if they make a difference of 1 percent or greater at the national level. Revisions for differences that do not meet the 1 percent or greater threshold will be determined by the Office Director. In either case, the proposed revision will be subject to the EIA revision policy concerning how it affects other EIA products.
- The magnitudes of changes due to revisions experienced in the past will be included periodically in the data products, so that the reader can assess the accuracy of the data.

Data sources for Electric Power Monthly

Data published in the EPM are compiled from the following sources:

- Form EIA-923, "Power Plant Operations Report,"
- Form EIA 826, "Monthly Electric Utility Sales and Revenues with State Distributions Report,"
- Form EIA 860, "Annual Electric Generator Report,"
- Form EIA-860M, "Monthly Update to the Annual Electric Generator Report," and

- Form EIA 861, “Annual Electric Power Industry Report.”

For access to these forms and their instructions, please see:
<http://www.eia.gov/cneaf/electricity/page/forms.html>.

In addition to the above-named forms, the historical data published in the EPM for periods prior to 2008 are compiled from the following sources:

- FERC Form 423, “Monthly Report of Cost and Quality of Fuels for Electric Plants,”
- Form EIA-423, “Monthly Cost and Quality of Fuels for Electric Plants Report,”
- Form EIA-759, “Monthly Power Plant Report,”
- Form EIA-860A, “Annual Electric Generator Report–Utility,”
- Form EIA-860B, “Annual Electric Generator Report–Nonutility,”
- Form EIA-900, “Monthly Nonutility Power Report,”
- Form EIA-906, “Power Plant Report,” and
- Form EIA-920, “Combined Heat and Power Plant Report.”

See Appendix A of the historical Electric Power Annual reports to find descriptions of forms that are no longer in use. The publications can be found from the top of the current EPA under previous issues:
<http://www.eia.gov/electricity/annual>.

Rounding rules for data: To round a number to n digits (decimal places), add one unit to the n th digit if the $(n+1)$ digit is 5 or larger and keep the n th digit unchanged if the $(n+1)$ digit is less than 5. The symbol for a number rounded to zero is (*).

Percent difference: The following formula is used to calculate percent differences:

$$\text{Percent Difference} = \left(\frac{x(t_2) - x(t_1)}{|x(t_1)|} \right) \times 100,$$

where $x(t_1)$ and $x(t_2)$ denote the quantity at year t_1 and subsequent year t_2 .

Meanings of symbols appearing in tables: The following symbols have the meaning described below:

P	Indicates a preliminary value.
NM	Data value is not meaningful, either (1) when compared to the same value for the previous time period, or (2) when a data value is not meaningful due to having a high Relative Standard Error (RSE).

Form EIA-826

The Form EIA 826, “Monthly Electric Utility Sales and Revenues with State Distributions Report,” is a monthly collection of data from a sample of approximately 500 of the largest electric utilities (primarily investor owned and publicly owned) as well as a census of energy service providers with sales to ultimate consumers in deregulated States. Form EIA-861, with approximately 3,300 respondents, serves as a frame from which the Form 826 sample is drawn. Based on this sample, a model is used to estimate for the entire universe of U.S. electric utilities.

Instrument and design history: The collection of electric power sales data and related information began in the early 1940’s and was established as FPC Form 5 by FPC Order 141 in 1947. In 1980, the report was revised with only selected income items remaining and became the FERC Form 5. The Form EIA 826, “Electric Utility Company Monthly Statement,” replaced the FERC Form 5 in January 1983. In January 1987, the “Electric Utility Company Monthly Statement” was changed to the “Monthly Electric Utility Sales and Revenue Report with State Distributions.” The title was changed again in January 2002 to “Monthly Electric Utility Sales and Revenues with State Distributions Report” to become consistent with other EIA report titles. The Form EIA 826 was revised in January 1990, and some data elements were eliminated.

In 1993, EIA for the first time used a model sample for the Form EIA 826. A stratified random sample, employing auxiliary data, was used for each of the four previous years. The sample for the Form EIA 826 was designed to obtain estimates of electricity sales and average price of electricity to ultimate consumers at the State level by end use sector.

Starting with data for January 2001, the restructuring of the electric power industry was taken into account by forming three schedules on the Form EIA-826. Schedule 1, Part A is for full service utilities that operate as in the past. Schedule 1, Part B is for electric service providers only, and Schedule 1, Part C is for those utilities providing distribution service for those on Schedule 1, Part B. In addition, Schedule 1 Part D is for those energy providers to ultimate consumers or power marketers that provide bundled service. Also, the Form EIA-826 frame was modified to include all investor-owned electric utilities and a sample of companies from other ownership classes. A new method of estimation was implemented at this same time. (See EPM April 2001, p.1.)

With the October 2004 issue of the EPM, EIA published for the first time preliminary electricity sales data for the Transportation Sector. These data are for electricity delivered to and consumed by local, regional, and metropolitan transportation systems. The data being published for the first time in the October EPM included July 2004 data as well as year-to-date. EIA’s efforts to develop these new data have identified anomalies in several States and the District of Columbia. Some of these anomalies are caused by issues such as: 1) Some respondents have classified themselves as outside the realm of the survey. The Form EIA-826 collects data from those respondents providing electricity and other services to the ultimate end users. EIA has experienced specific situations where, although the respondents’ customers are the ultimate end users, particular end users qualify under wholesale rate schedules. 2) The Form EIA-826 is a cutoff sample and not intended to be a census.

Beginning with 2008 data and some annual 2007 data, the Form EIA-923 replaced Forms EIA-906, EIA-920, EIA-423, and FERC 423. In addition, several sections of the discontinued Form EIA-767 have been included in either the Form EIA-860 or Form EIA-923. See the following link for a detailed explanation. <http://www.eia.gov/cneaf/electricity/2008forms/consolidate.html>

The legislative authority to collect these data is defined in the Federal Energy Administration Act of 1974 (Public Law 93-275, Sec. 13(b), 5(a), 5(b), 52).

Data processing and data system editing: Monthly Form EIA-826 submission is available via an Internet Data Collection (IDC) system. The completed data are due to EIA by the last calendar day of the month following the reporting month. Nonrespondents are contacted to obtain the data. The data are edited and additional checks are completed. Following verification, imputation is run, and tables and text of the aggregated data are produced for inclusion in the EPM.

Imputation: Regression prediction, or imputation, is done for entities not in the monthly sample and for any nonrespondents. Regressor data for Schedule 1, Part A is the average monthly sales or revenue from the most recent finalized data from survey Form EIA-861. Beginning with January 2008 data and the finalized 2007 data, the regressor data for Schedule 1 Parts B and C is the prior month's data.

Formulas and methodologies: The Form EIA 826 data are collected by end-use sector (residential, commercial, industrial, and transportation) and State. Form EIA 861 data are used as the frame from which the sample is selected and in some instances also as regressor data. Updates are made to the frame to reflect mergers that affect data processing.

With the revised definitions for the commercial and industrial sectors to include all data previously reported as 'other' data except transportation, and a separate transportation sector, all responses that would formerly have been reported under the "other" sector are now to be reported under one of the sectors that currently exist. This means there is probably a lower correlation, in general, between, say, commercial Form EIA-826 data for 2004 and commercial Form EIA-861 data for 2003 than there was between commercial Form EIA-826 data for 2003 and commercial Form EIA-861 data for 2002 or earlier years, although commercial and industrial definitions have always been somewhat nebulous due to power companies not having complete information on all customers.

Data submitted for January 2004 represent the first time respondents were to provide data specifically for the transportation end-use sector.

During 2003 transportation data were collected annually through Form EIA-861. Beginning in 2004 the transportation data were collected on a monthly basis via Form EIA-826. In order to develop an estimate of the monthly transportation data for 2003, values for both sales of electricity to ultimate customers and revenue from sales of electricity to ultimate customers were estimated using the 2004 monthly profile for the sales and revenues from the data collected via Form EIA-826. All monthly non-transportation data for 2003 (i.e. street lighting, etc.), which were previously reported in the "other" end-use sector on the Form EIA-826 have been prorated into the Commercial and Industrial end-use sectors based on the 2003 Form EIA-861 profile.

A monthly distribution factor was developed for the monthly data collected in 2004 (for the months of January through November). The transportation sales and revenues for December 2004 were assumed to be equivalent to the transportation sales and revenues for November 2004. The monthly distribution factors for January through November were applied to the annual values for transportation sales and revenues collected via Form EIA-861 to develop corresponding 2003 monthly values. The eleven month estimated totals from January through November 2003 were subtracted from the annual values obtained from Form EIA-861 in order to obtain the December 2003 values.

Data from the Form EIA-826 are used to determine estimates by sector at the State, Census division, and national level. State level sales and revenues estimates are first calculated. Then the ratio of revenue divided by sales is calculated to estimate the price of electricity to ultimate consumers at the State level. The estimates are accumulated separately to produce the Census division and U.S. level estimates¹.

Some electric utilities provide service in more than one State. To facilitate the estimation, the State service area is actually used as the sampling unit. For each State served by each utility, there is a utility State part, or "State service area." This approach allows for an explicit calculation of estimates for sales, revenue, and average price of electricity to ultimate consumers by end use sector at State, Census division, and national level. Estimation procedures include imputation to account for nonresponse. Non-sampling error must also be considered. The non-sampling error is not estimated directly, although attempts are made to minimize the non-sampling error.

Average price of electricity to ultimate consumers represents the cost per unit of electricity sold and is calculated by dividing electric revenue from ultimate consumers by the corresponding sales of electricity. The average price of electricity to ultimate consumers is calculated for all consumers and for each end-use sector.

The electric revenue used to calculate the average price of electricity to ultimate consumers is the operating revenue reported by the electric utility. Operating revenue includes energy charges, demand charges, consumer service charges, environmental surcharges, fuel adjustments, and other miscellaneous charges. Electric utility operating revenues also include State and Federal income taxes and taxes other than income taxes paid by the utility.

The average price of electricity to ultimate consumers reported in this publication by sector represents a weighted average of consumer revenue and sales within sectors and across sectors for all consumers, and does not reflect the per kWh rate charged by the electric utility to the individual consumers. Electric utilities typically employ a number of rate schedules within a single sector. These alternative rate schedules reflect the varying consumption levels and patterns of consumers and their associated impact on the costs to the electric utility for providing electrical service.

Adjusting monthly data to annual data: As a final adjustment based on our most complete data, use is made of final Form EIA-861 data, when available. The annual totals for Form EIA-826 data by State and end-use sector are compared to the corresponding Form EIA-861 values for sales and revenue. The ratio of these two values in each case is then used to adjust each corresponding monthly value.

Sensitive data: Most of the data collected on the Form EIA-826 are not considered business sensitive. However, revenue, sales, and customer data collected from energy service providers (Schedule 1, Part B), which do not also provide energy delivery, are considered business sensitive and must adhere to EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45Federal Register 59812 (1980)).

Form EIA-860

The Form EIA 860, "Annual Electric Generator Report," is a mandatory annual census of all existing and planned electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts. The survey is used to collect data on existing power plants and 10 year plans for constructing new plants, as well as generating unit additions, modifications, and retirements in existing plants. Data on the survey are collected at the generator level. Certain power plant environmental-related data are collected at the boiler level. These data include environmental equipment design parameters, boiler air emission standards, and boiler emission controls. The Form EIA-860 is made available in January to collect data related to the previous year.

Instrument and design history: The Form EIA-860 was originally implemented in January 1985 to collect data as of year-end 1984. It was preceded by several Federal Power Commission (FPC) forms including the FPC Form 4, Form 12 and 12E, Form 67, and Form EIA-411. In January 1999, the Form EIA-860 was renamed the Form EIA-860A, "Annual Electric Generator Report – Utility" and was implemented to collect data from electric utilities as of January 1, 1999.

In 1989, the Form EIA-867, "Annual Nonutility Power Producer Report," was initiated to collect plant data on unregulated entities with a total generator nameplate capacity of 5 or more megawatts. In 1992, the reporting threshold of the Form EIA-867 was lowered to include all facilities with a combined nameplate capacity of 1 or more megawatts. Previously, data were collected every 3 years from facilities with a nameplate capacity between 1 and 5 megawatts. In 1998, the Form EIA-867, was renamed Form EIA-860B, "Annual Electric Generator Report – Nonutility." The Form EIA-860B was a mandatory survey of all existing and planned nonutility electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts.

Beginning with data collected for the year 2001, the infrastructure data collected on the Form EIA-860A and the Form EIA-860B were combined into the new Form EIA-860 and the monthly and annual versions of the Form EIA-906.

Starting with 2007, design parameters data formerly collected on Form EIA-767 were collected on Form EIA-860. These include design parameters associated with certain steam-electric plants' boilers, cooling systems, flue gas particulate collectors, flue gas desulfurization units, and stacks and flues.

The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

Estimation of form eia-860 data: EIA received forms from all 18,151 existing generators in the 2010 Form EIA-860 frame, so no imputation was required.

Prime Movers: The Form EIA-860 sometimes represents a generator's prime mover by using the abbreviations in the table below.

Prime Mover Code	Prime Mover Description
BA	Energy Storage, Battery
CE	Energy Storage, Compressed Air
CP	Energy Storage, Concentrated Solar Power
FW	Energy Storage, Flywheel
PS	Energy Storage, Reversible Hydraulic Turbine (Pumped Storage)
ES	Energy Storage, Other
ST	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)
GT	Combustion (Gas) Turbine (including jet engine design)
IC	Internal Combustion Engine (diesel, piston, reciprocating)
CA	Combined Cycle Steam Part
CT	Combined Cycle Combustion Turbine Part
CS	Combined Cycle Single Shaft
CC	Combined Cycle Total Unit
HA	Hydrokinetic, Axial Flow Turbine
HB	Hydrokinetic, Wave Buoy
HK	Hydrokinetic, Other
HY	Hydroelectric Turbine (including turbines associated with delivery of water by pipeline)
BT	Turbines Used in a Binary Cycle (including those used for geothermal applications)
PV	Photovoltaic
WT	Wind Turbine, Onshore
WS	Wind Turbine, Offshore
FC	Fuel Cell
OT	Other

Energy Sources: The Form EIA-860 sometimes represents the energy sources associated with generators by using the abbreviations and/or groupings in the table below.

Energy Source Grouping	Energy Source Code	Energy Source Description
Coal	ANT	Anthracite Coal
	BIT	Bituminous Coal
	LIG	Lignite Coal
	SUB	Subbituminous Coal
	SGC	Coal-Derived Synthesis Gas
	WC	Waste/Other Coal (including anthracite culm, bituminous gob, fine coal, lignite waste, waste coal)
Petroleum Products	DFO	Distillate Fuel Oil (including diesel, No. 1, No. 2, and No. 4 fuel oils)
	JF	Jet Fuel
	KER	Kerosene
	PC	Petroleum Coke
	PG	Gaseous Propane
	RFO	Residual Fuel Oil (including No. 5, and No. 6 fuel oils, and bunker C fuel oil)
	SG	Synthesis Gas from Petroleum Coke
Natural Gas and Other Gases	WO	Waste/Other Oil (including crude oil, liquid butane, liquid propane, naphtha, oil waste, re-refined motor oil, sludge oil, tar oil, or other petroleum-based liquid wastes)
	BFG	Blast Furnace Gas
	NG	Natural Gas
Nuclear	OG	Other Gas
	NUC	Nuclear (including Uranium, Plutonium, and Thorium)
Hydroelectric Conventional	WAT	Water at a Conventional
	(Prime Mover = HY)	Hydroelectric Turbine, and water used in Wave Buoy Hydrokinetic Technology, Current Hydrokinetic Technology, and Tidal Hydrokinetic Technology
Hydroelectric Pumped Storage	WAT (Prime Mover = PS)	Pumping Energy for Reversible (Pumped Storage) Hydroelectric Turbine
Wood and Wood-Derived Fuels	WDS	Wood/Wood Waste Solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids)
	WDL	Wood Waste Liquids (excluding Black Liquor but including red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids)
	BLQ	Black Liquor
Other Biomass	AB	Agricultural By-Products
	MSW	Municipal Solid Waste
	OBG	Other Biomass Gas (including digester gas, methane, and other biomass gases)
	OBL	Other Biomass Liquids
	OBS	Other Biomass Solids
	LFG	Landfill Gas
	SLW	Sludge Waste
Other Renewable Energy Sources	SUN	Solar (including solar thermal)
	WND	Wind
	GEO	Geothermal
Other Energy Sources	PUR	Purchased Steam
	WH	Waste heat not directly attributed to a fuel source
	TDF	Tire-Derived Fuels
	MWH	Electricity used for energy storage
	OTH	Other

Sensitive data: The tested heat rate data collected on the Form EIA-860 are considered business sensitive.

Form EIA-860M

The Form EIA 860M, “Monthly Update to the Annual Electric Generator Report,” is a mandatory monthly survey that collects data on the status of proposed new generators or changes to existing generators for plants that report on Form EIA-860.

The Form EIA-860M has a rolling frame based upon planned changes to capacity as reported on the previous Form EIA-860. Respondents are added to the frame 12 months prior to the expected effective date for all new units or expected retirement date for existing units. For all other types of capacity changes (including retirements, uprates, derates, repowering, or other modifications), respondents are added 1 month prior to the anticipated modification change date. Respondents are removed from the frame at the completion of the changes or if the change date is moved back so that the plant no longer qualifies to be in the frame. Typically, 150 to 200 utilities per month are required to report for 175 to 250 plants (including 250 to 400 generating units) on this form. The unit characteristics of interest are changes to the previously reported planned operating month and year, prime mover type, capacity, and energy sources.

Instrument and design history: The data collected on Form EIA-860M was originally collected via phone calls at the end of each month. During 2005, the Form EIA-860M was introduced as a mandatory form using the Internet Data Collection (IDC) system.

The legislative authority to collect these data is defined in the Federal Energy Administration Act of 1974 (Public Law 93-275, Sec. 13(b), 5(a), 5(b), 52).

Data processing and data system editing: Approximately 150 to 200 utilities are requested to provide data each month on the Form EIA 860M. These data are collected via the IDC system and automatically checked for certain errors. Most of the quality assurance issues are addressed by the respondents as part of the automatic edit check process. In some cases, respondents are subsequently contacted about their explanatory overrides to the edit checks.

Sensitive data: Data collected on the Form EIA-860M are not considered to be sensitive.

Form EIA-861

The Form EIA 861, “Annual Electric Power Industry Report,” is a mandatory census of electric power industry participants in the United States. The survey is used to collect information on power sales and revenue data from approximately 3,300 respondents. About 3,200 are electric utilities and the remainder are nontraditional utilities such as energy service providers or the unregulated subsidiaries of electric utilities and power marketers.

Instrument and design history: The Form EIA 861 was implemented in January 1985 for collection of data as of year end 1984. The Federal Energy Administration Act of 1974 (Public Law 93 275) defines the legislative authority to collect these data.

Data processing and data system editing: The Form EIA 861 is made available to the respondents in January of each year to collect data as of the end of the preceding calendar year. The data are edited when entered into the interactive on line system. Internal edit checks are performed to verify that current data total across and between schedules, and are comparable to data reported the previous year. Edit checks are also performed to compare data reported on the Form EIA 861 and similar data reported on the Form EIA 826. Respondents are telephoned to obtain clarification of reported data and to obtain missing data.

Data for the Form EIA 861 are collected at the owner level from all electric utilities including energy service providers in the United States, its territories, and Puerto Rico. Form EIA 861 data in this report are for the United States only.

Average price of electricity to ultimate consumers represents the cost per unit of electricity sold and is calculated by dividing electric revenue from ultimate consumers by the corresponding sales of electricity. The average price of electricity to ultimate consumers is calculated for all consumers and for each end-use sector.

The electric revenue used to calculate the average price of electricity to ultimate consumers is the operating revenue reported by the electric power industry participant. Operating revenue includes energy charges, demand charges, consumer service charges, environmental surcharges, fuel adjustments, and other miscellaneous charges. Electric power industry participant operating revenues also include State and Federal income taxes and other taxes paid by the utility.

The average price of electricity to ultimate consumers reported in this publication by sector represents a weighted average of consumer revenue and sales, and does not equal the per kWh rate charged by the electric power industry participant to the individual consumers. Electric utilities typically employ a number of rate schedules within a single sector. These alternative rate schedules reflect the varying consumption levels and patterns of consumers and their associated impact on the costs to the electric power industry participant for providing electrical service.

Sensitive data: Data collected on the Form EIA-861 are not considered to be sensitive.

Form EIA-923

Form EIA-923, "Power Plant Operations Report," is a monthly collection of data on receipts and cost of fossil fuels, fuel stocks, generation, consumption of fuel for generation, and environmental data (e.g. emission controls and cooling systems). Data are collected from a monthly sample of approximately 1,900 plants, which includes a census of nuclear and pumped-storage hydroelectric plants. In addition approximately 4,050 plants, representing all other generators 1 MW or greater, are collected annually. In addition to electric power generating plants, respondents include fuel storage terminals without

generating capacity that receive shipments of fossil fuels for eventual use in electric power generation. The monthly data are due by the last day of the month following the reporting period.

Receipts of fossil fuels, fuel cost and quality information, and fuel stocks at the end of the reporting period are all reported at the plant level. Plants that burn organic fuels and have a steam turbine capacity of at least 10 megawatts report consumption at the boiler level and generation at the generator level. For all other plants, consumption is reported at the prime-mover level. For these plants, generation is reported either at the prime-mover level or, for noncombustible sources (e.g. wind, nuclear), at the prime-mover and energy source level. The source and disposition of electricity is reported annually for nonutilities at the plant level as is revenue from sales for resale. Environmental data are collected annually from facilities that have a steam turbine capacity of at least 10 megawatts.

Instrument and design history:

Receipts and cost and quality of fossil fuels

On July 7, 1972, the Federal Power Commission (FPC) issued Order Number 453 enacting the New Code of Federal Regulations, Section 141.61, legally creating the FPC Form 423. Originally, the form was used to collect data only on fossil steam plants, but was amended in 1974 to include data on internal-combustion and combustion-turbine units. The FERC Form 423 replaced the FPC Form 423 in January 1983. The FERC Form 423 eliminated peaking units, for which data were previously collected on the FPC Form 423. In addition, the generator nameplate capacity threshold was changed from 25 megawatts to 50 megawatts. This reduction in coverage eliminated approximately 50 utilities and 250 plants. All historical FPC Form 423 data in this publication were revised to reflect the new generator-nameplate- capacity threshold of 50 or more megawatts reported on the FERC Form 423. In January 1991, the collection of data on the FERC Form 423 was extended to include combined cycle units. Historical data have not been revised to include these units. Starting with the January 1993 data, the FERC began to collect the data directly from the respondents.

The Form EIA-423 was originally implemented in January 2002 to collect monthly cost and quality data for fossil fuel receipts from owners or operators of nonutility electricity generating plants. Due to the restructuring of the electric power industry, many plants which had historically submitted this information for utility plants on the FERC Form 423 (see above) were being transferred to the nonutility sector. As a result, a large percentage of fossil fuel receipts were no longer being reported. The Form EIA-423 was implemented to fill this void and to capture the data associated with existing non-regulated power producers. Its design closely followed that of the FERC Form 423.

Both the Form EIA-423 and FERC Form 423 were superseded by Schedule 2 of the Form EIA-923 in January of 2008. At the time, the Form EIA-923 maintained the 50-megawatt threshold for these data. In January 2013, the threshold was changed to 200 megawatts for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. The requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts.

Not all data are collected monthly on the Form EIA-923. Beginning with 2008 data, a sample of the respondents report monthly, with the remainder reporting annually. Until January 2013, monthly fuel receipts values for the annual surveys were imputed via regression. Prior to 2008, Schedule 2 annual data were not collected or imputed.

Generation, consumption, and stocks

The Bureau of Census and the U.S. Geological Survey collected, compiled, and published data on the electric power industry prior to 1936. After 1936, the Federal Power Commission (FPC) assumed all data collection and publication responsibilities for the electric power industry and implemented the Form FPC-4. The Federal Power Act, Section 311 and 312, and FPC Order 141 defined the legislative authority to collect power production data. The Form EIA-759 replaced the Form FPC-4 in January 1982.

In 1996, the Form EIA-900 was initiated to collect sales for resale data from unregulated entities¹⁴. In 1998, the form was modified to collect sales for resale, gross generation, and sales to end user data. In 1999, the form was modified to collect net generation, consumption, and ending stock data¹⁵. In 2000, the form was modified to include the production of useful thermal output data.

In January 2001, Form EIA-906 superseded Forms EIA-759 and EIA-900. In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906. The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

Forms EIA-906 and EIA-920 were superseded by survey Form EIA-923 beginning in January 2008 with the collection of annual 2007 data and monthly 2008 data.

Data processing and data system editing: Respondents are encouraged to enter data directly into a computerized database via the Internet Data Collection (IDC) system. A variety of automated quality control mechanisms are run during this process, such as range checks and comparisons with historical data. These edit checks are performed as the data are provided, and many problems that are encountered are resolved during the reporting process. Those plants that are unable to use the electronic reporting medium provide the data in hard copy, typically via fax. These data are manually entered into the computerized database. The data are subjected to the same edits as those that are electronically submitted.

If the reported data appear to be in error and the data issue cannot be resolved by follow up contact with the respondent, or if a facility is a nonrespondent, a regression methodology is used to impute for the facility. Beginning in January 2013, imputation is not performed for fuel receipts data reported on Schedule 2.

Imputation: For select survey data elements collected monthly, regression prediction, or imputation, is done for missing data, including non-sampled units and any non-respondents. For data collected annually, imputation is performed for non-respondents. For gross generation and total fuel

consumption, multiple regression is used for imputation (see discussion, above). Only approximately 0.02 percent of the national total generation for 2010 is imputed, although this will vary by State and energy source.

When gross generation is reported and net generation is not available, net generation is estimated by using a fixed ratio to gross generation by prime-mover type and installed environmental equipment. These ratios are:

Net Generation = (Factor) x Gross Generation
Prime Movers:
Combined Cycle Steam - 0.97
Combined Cycle Single Shaft - 0.97
Combined Cycle Combustion Turbine - 0.97
Compressed Air - 0.97
Fuel Cell - 0.99
Gas Turbine - 0.98
Hydroelectric Turbine - 0.99
Hydroelectric Pumped Storage - 0.99
Internal Combustion Engine - 0.98
Other - 0.97
Photovoltaic - 0.99
Steam Turbine - 0.97
Wind Turbine - 0.99
Environmental Equipment:
Flue Gas Desulfurization - 0.97
Flue Gas Particulate 0.99
All Others - 0.97

For stocks, a linear combination of the prior month's ending stocks value and the current month's consumption and receipts values are used.

Receipts of fossil fuels: Receipts data, including cost and quality of fuels, are collected at the plant level from selected electric generating plants and fossil-fuel storage terminals in the United States. These plants include independent power producers, electric utilities, and commercial and industrial combined heat and power producers. All plants with a total fossil-fueled nameplate capacity of 50 megawatts or more (excluding storage terminals, which do not produce electricity) were required to report receipts of fossil fuels. In January 2013, the threshold was changed to 200 megawatts for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. The requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The data on cost and quality of fuel shipments are used to produce aggregates and weighted averages for each fuel type at the state, Census division, and U.S. levels.

For coal, units for receipts are in tons and units for average heat contents (A) are in million Btu per ton. For petroleum, units for receipts are in barrels and units for average heat contents (A) are in million Btu per barrel.

For gas, units for receipts are in thousand cubic feet (Mcf) and units for average heat contents (A) are in million Btu per thousand cubic foot.

Power production, fuel stocks, and fuel consumption data: The Bureau of Census and the U.S. Geological Survey collected, compiled, and published data on the electric power industry prior to 1936. After 1936, the Federal Power Commission (FPC) assumed all data collection and publication responsibilities for the electric power industry and implemented the Form FPC-4. The Federal Power Act, Section 311 and 312, and FPC Order 141 defined the legislative authority to collect power production data. The Form EIA-759 replaced the Form FPC-4 in January 1982.

In 1996, the Form EIA-900 was initiated to collect sales for resale data from unregulated entities. In 1998, the form was modified to collect sales for resale, gross generation, and sales to end user data. In 1999, the form was modified to collect net generation, consumption, and ending stock data. In 2000, the form was modified to include the production of useful thermal output data.

In January 2001, Form EIA-906 superseded Forms EIA-759 and EIA-900. In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906. The Federal Energy Administration Act of 1974 (Public Law 93 275) defines the legislative authority to collect these data.

In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906.

In January 2008, Form EIA-923 superseded both the Forms EIA-906 and EIA-920 for the collection of these data.

Methodology to estimate biogenic and non-biogenic municipal solid waste²: Municipal solid waste (MSW) consumption for generation of electric power is split into its biogenic and non-biogenic components beginning with 2001 data by the following methodology:

The tonnage of MSW consumed is reported on the Form EIA-923. The composition of MSW and categorization of the components were obtained from the Environmental Protection Agency publication, *Municipal Solid Waste in the United States: 2005 Facts and Figures*. The Btu contents of the components of MSW were obtained from various sources.

The potential quantities of combustible MSW discards (which include all MSW material available for combustion with energy recovery, discards to landfill, and other disposal) were multiplied by their respective Btu contents. The EPA-based categories of MSW were then classified into renewable and non-renewable groupings. From this, EIA calculated how much of the energy potentially consumed from MSW was attributed to biogenic components and how much to non-biogenic components (see Tables 1 and 2, below).³

These values are used to allocate net generation published in the Electric Power Monthly generation tables. The tons of biogenic and non-biogenic components were estimated with the assumption that glass and metals were removed prior to combustion. The average Btu/ton for the biogenic and non-

biogenic components is estimated by dividing the total Btu consumption by the total tons. Published net generation attributed to biogenic MSW and non-biogenic MSW is classified under Other Renewables and Other, respectively.

Table 1. Btu consumption for biogenic and non-biogenic municipal solid waste (percent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Biogenic	57	56	55	55	56	57	55	54	51	50
Non-biogenic	43	44	45	45	44	43	46	46	49	50

Table 2. Tonnage consumption for biogenic and non-biogenic municipal solid waste (percent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Biogenic	77	77	76	76	75	67	65	65	64	64
Non-biogenic	23	23	24	24	25	34	35	35	36	36

Useful thermal output: With the implementation of the Form EIA-923, “Power Plant Operations Report,” in 2008, combined heat and power (CHP) plants are required to report total fuel consumed and electric power generation. Beginning with the January 2008 data, EIA will estimate the allocation of the total fuel consumed at CHP plants between electric power generation and useful thermal output.

First, an efficiency factor is determined for each plant and prime mover type. Based on data for electric power generation and useful thermal output collected in 2003 (on Form EIA-906, “Power Plant Report”) efficiency was calculated for each prime mover type at a plant. The efficiency factor is the total output in Btu, including electric power and useful thermal output (UTO), divided by the total input in Btu. Electric power is converted to Btu at 3,412 Btu per kilowatthour.

Second, to calculate the amount of fuel for electric power, the gross generation in Btu is multiplied by the efficiency factor. The fuel for UTO is the difference between the total fuel reported and the fuel for electric power generation. UTO is calculated by multiplying the fuel for UTO by the efficiency factor.

In addition, if the total fuel reported is less than the estimated fuel for electric power generation, then the fuel for electric power generation is equal to the total fuel consumed, and the UTO will be zero.

Conversion of petroleum coke to liquid petroleum: The quantity conversion is 5 barrels (of 42 U.S. gallons each) per short ton (2,000 pounds).

Conversion of propane gas to liquid petroleum: The quantity conversion is 1.53 Mcf (thousand cubic feet) per barrel (or 42 U.S. gallons each).

Conversion of synthesis gas from coal to coal: The quantity conversion is 98 Mcf (thousand cubic feet) per short ton (2,000 pounds).

Conversion of synthesis gas from petroleum coke to petroleum coke: The quantity conversion is 107.42 Mcf (thousand cubic feet) per short ton (2,000 pounds).

Issues within historical data series:

Receipts and cost and quality of fossil fuels

Values for receipts of natural gas for 2001 forward do not include blast furnace gas or other gas.

Historical data collected on FERC Form 423 and published by EIA have been reviewed for consistency between volumes and prices and for their consistency over time. However, these data were collected by FERC for regulatory rather than statistical and publication purposes. EIA did not attempt to resolve any late filing issues in the FERC Form 423 data. In 2003, EIA introduced a procedure to estimate for late or non-responding entities due to report on the FERC Form 423. Due to the introduction of this procedure, 2003 and later data cannot be directly compared to previous years' data. In January 2013, this estimation procedure was dropped.

Prior to 2008, regulated plants reported receipts data on the FERC Form 423. These plants, along with unregulated plants, now report receipts data on Schedule 2 of Form EIA-923. Because FERC issued waivers to the FERC Form 423 filing requirements to some plants who met certain criteria, and because not all types of generators were required to report (only steam turbines and combined-cycle units reported), a significant number of plants either did not submit fossil fuel receipts data or submitted only a portion of their fossil fuel receipts. Since Form EIA-923 does not have exemptions based on generator type or reporting waivers, receipts data from 2008 and later cannot be directly compared to previous years' data for the regulated sector. Furthermore, there may be a notable increase in fuel receipts beginning with January 2008 data.

Starting with the revised data for 2008, tables for total receipts begin to reflect estimation for all plants with capacity over 1 megawatt, to be consistent with other electric power data. Previous receipts data published have been a legacy of their original collection as information for a regulatory agency, not as a survey to provide more meaningful estimates of totals for statistical purposes. Totals appeared to become smaller as more electric production came from unregulated plants, until the Form EIA-423 was created to help fill that gap. As a further improvement, estimation of all receipts for the universe normally depicted in the EPM (i.e., 1 megawatt and above), with associated relative standard errors, provides a more complete assessment of the market.

Generation and consumption

Beginning in 2008, a new method of allocating fuel consumption between electric power generation and useful thermal output (UTO) was implemented. This new methodology evenly distributes a combined heat and power (CHP) plant's losses between the two output products (electric power and UTO). In the historical data, UTO was consistently assumed to be 80 percent efficient and all other losses at the plant were allocated to electric power. This change causes the fuel for electric power to be decreased while the fuel for UTO is increased as both are given the same efficiency. This results in the appearance of an increase in efficiency of production of electric power between periods.

Sensitive data: Most of the data collected on the Form EIA-923 are not considered business sensitive. However, the cost of fuel delivered to nonutilities, commodity cost of fossil fuels, and reported fuel stocks at the end of the reporting period are considered business sensitive and must adhere to EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45Federal Register 59812 (1980)).

Average Capacity Factors

This section describes the methodology for calculating capacity factors by fuel and technology type for operating electric power plants. Capacity factor is a measure (expressed as a percent) of how often an electric generator operates over a specific period of time, using a ratio of the actual output to the maximum possible output over that time period.

The capacity factor calculation only includes operating electric generators in the Electric Power Sector (sectors 1, 2 and 3) using the net generation reported on the Form EIA-923 and the net summer capacity reported on the Form EIA-860. The capacity factor for a particular fuel/technology type is given by:

$$CapacityFactor = \left(\frac{\sum_{x,m} Generation_{x,m}}{\sum_{x,m} Capacity_{x,m} * AvailableTime_{x,m}} \right)$$

Where x represents generators of that fuel/technology combination and m represents the period of time (month or year). Generation and capacity are specific to a generator, and the generator is categorized by its primary fuel type as reported on the EIA-860. All generation from that generator is included, regardless of other fuels consumed. Available time is also specific to the generator in order to account for differing online and retirement dates. Therefore, these published capacity factors will differ from a simple calculation using annual generation and capacity totals from the appropriate tables in this publication.

NERC classification

The Florida Reliability Coordinating Council (FRCC) separated itself from the Southeastern Electric Reliability Council (SERC) in the mid-1990s. In 1998, several utilities realigned from Southwest Power Pool (SPP) to SERC. Name changes altered both the Mid-Continent Area Power Pool (MAPP) to the Midwest Reliability Organization (MRO) and the Western Systems Coordinating Council (WSCC) to the Western Energy Coordinating Council (WECC). The MRO membership boundaries have altered over time, but WECC membership boundaries have not. The utilities in the associated regional entity identified as the Alaska System Coordination Council (ASCC) dropped their formal participation in NERC. Both the States of Alaska and Hawaii are not contiguous with the other continental States and have no electrical interconnections. At the close of calendar year 2005, the following reliability regional councils were dissolved: East Central Area Reliability Coordinating Agreement (ECAR), Mid-Atlantic Area Council (MAAC), and Mid-America Interconnected Network (MAIN).

On January 1, 2006, the ReliabilityFirst Corporation (RFC) came into existence as a new regional reliability council. Individual utility membership in the former ECAR, MAAC, and MAIN councils mostly shifted to RFC. However, adjustments in membership as utilities joined or left various reliability councils impacted MRO, SERC, and SPP. The Texas Regional Entity (TRE) was formed from a delegation of authority from NERC to handle the regional responsibilities of the Electric Reliability Council of Texas (ERCOT). The revised delegation agreements covering all the regions were approved by the Federal Energy Regulatory Commission on March 21, 2008. Reliability Councils that are unchanged include: Florida Reliability Coordinating Council (FRCC), Northeast Power Coordinating Council (NPCC), and the Western Energy Coordinating Council (WECC)

The new NERC Regional Council names are as follows:

- Florida Reliability Coordinating Council (FRCC),
- Midwest Reliability Organization (MRO),
- Northeast Power Coordinating Council (NPCC),
- ReliabilityFirst Corporation (RFC),
- Southeastern Electric Reliability Council (SERC),
- Southwest Power Pool (SPP),
- Texas Regional Entity (TRE), and
- Western Energy Coordinating Council (WECC).

Business classification

Nonutility power producers consist of corporations, persons, agencies, authorities, or other legal entities that own or operate facilities for electric generation but are not electric utilities. This includes qualifying cogenerators, small power producer, and independent power producers. Furthermore, nonutility power producers do not have a designated franchised service area. In addition to entities whose primary business is the production and sale of electric power, entities with other primary business classifications can and do sell electric power. These can consist of manufacturing, agricultural, forestry, transportation, finance, service and administrative industries, based on the Office of Management and Budget's Standard Industrial Classification (SIC) Manual. In 1997, the SIC Manual name was changed to North American Industry Classification System (NAICS). The following is a list of the main classifications and the category of primary business activity within each classification.

Agriculture, Forestry, and Fishing

- 111 Agriculture production-crops
- 112 Agriculture production, livestock and animal specialties
- 113 Forestry
- 114 Fishing, hunting, and trapping
- 115 Agricultural services

Mining

- 211 Oil and gas extraction
- 2121 Coal mining
- 2122 Metal mining

2123 Mining and quarrying of nonmetallic minerals except fuels

Construction

23

Manufacturing

311 Food and kindred products
3122 Tobacco products
314 Textile and mill products
315 Apparel and other finished products made from fabrics and similar materials
316 Leather and leather products
321 Lumber and wood products, except furniture
322 Paper and allied products (other than 322122 or 32213)
322122 Paper mills, except building paper
32213 Paperboard mills
323 Printing and publishing
324 Petroleum refining and related industries (other than 32411)
32411 Petroleum refining
325 Chemicals and allied products (other than 325188, 325211, 32512, or 325311)
32512 Industrial organic chemicals
325188 Industrial Inorganic Chemicals
325211 Plastics materials and resins
325311 Nitrogenous fertilizers
326 Rubber and miscellaneous plastic products
327 Stone, clay, glass, and concrete products (other than 32731)
32731 Cement, hydraulic
331 Primary metal industries (other than 331111 or 331312)
331111 Blast furnaces and steel mills
331312 Primary aluminum
332 Fabricated metal products, except machinery and transportation equipment
333 Industrial and commercial equipment and components except computer equipment
3345 Measuring, analyzing, and controlling instruments, photographic, medical, and optical goods, watches and clocks
335 Electronic and other electrical equipment and components except computer equipment
336 Transportation equipment
337 Furniture and fixtures
339 Miscellaneous manufacturing industries

Transportation and Public Utilities

22 Electric, gas, and sanitary services
2212 Natural gas transmission
2213 Water supply
22131 Irrigation systems
22132 Sewerage systems
481 Transportation by air
482 Railroad transportation
483 Water transportation
484 Motor freight transportation and warehousing
485 Local and suburban transit and interurban highway passenger transport
486 Pipelines, except natural gas
487 Transportation services
491 United States Postal Service
513 Communications
562212 Refuse systems

Wholesale Trade

421 to 422

Retail Trade

441 to 454

Finance, Insurance, and Real Estate

521 to 533

Services

512 Motion pictures
514 Business services
514199 Miscellaneous services
541 Legal services
561 Engineering, accounting, research, management, and related services
611 Education services
622 Health services
624 Social services
712 Museums, art galleries, and botanical and zoological gardens
713 Amusement and recreation services
721 Hotels
811 Miscellaneous repair services
8111 Automotive repair, services, and parking
812 Personal services
813 Membership organizations
814 Private households

Public Administration

92

Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

Monthly generation from small scale PV solar resources is an estimation of the generation produced from PV solar resources and not the results of a data collection effort for generation directly, with the exception of “Third Party Owned” or (TPO) solar installations which has direct data collection. TPO data however is not comprehensive. TPOs do not operate in every state, TPO collected data is not a large portion of the estimated amount, and the data has been collected for limited period of time. The generation estimate is based on data collected for PV solar capacity.

Capacity of PV solar resources is collected directly from respondents. These data are collected on several EIA forms and from several types of respondents. Monthly data for net-metered PV solar capacity is reported on the Form EIA-826. Form EIA-826 is a cutoff sample drawn from the annual survey Form EIA-861 which collects this data from all respondents. Using data from both of these surveys we have a regression model to impute for the non-sampled monthly capacity.

The survey instruments collect solar net metering capacity from reporting utilities by state and customer class. There are four customer classes: residential, commercial, industrial and transportation. However, the estimation process included only the residential, commercial and industrial customers.¹ Data for these customer classes were further classified by U.S. Census Regions, to ensure adequate number of customer observations in for each estimation group.

Estimation Model: The total PV capacity reported by utilities in the annual EIA-861 survey is the single primary input (regressor) to the monthly estimation of PV capacity by state. The model tested for each Census Region was of the form:

$$y_{i_{2015,m}} = \beta_1 X_{i_{2013}} + w_i^{-1/2} e_i, \text{ where}$$

$X_{i_{2013}}$ is the i^{th} utility's 2013 (or the last published year) solar PV capacity

$y_{i_{2015,m}}$ is the i^{th} utility's month m , 2015 (or the current year) reported solar PV capacity

w_i is the weight factor, which is the inverse of $X_{i_{2013}}$

β_1 is effectively the growth rate of reported month m solar PV capacity

e_i is the error term

The model checks for outliers and removes them from the regression equation inputs. The model calculates RSEs by sector, state, census region, and US total. Once we have imputed for all of the

monthly net-metered PV solar capacity we add to total net metered capacity, the PV solar capacity collected on the Form EIA-861 for distributed and dispersed resources that are not net metered.

We use a second model to estimate the generation using this capacity as an input. The original methodology was developed for the “Annual Energy Outlook” based on our “NEMS” modelled projections several years ago. The original method underwent a calibration project designed to develop PV production levels for the NEMS projections consistent with simulations of a National Renewable Energy Laboratory model called PVWatts, which is itself embedded in PC software under the umbrella of the NREL’s System Advisor Model (SAM).

The PVWatts simulations require, panel azimuth orientations and tilts, something that the NEMS projections do not include. Call the combinations of azimuths and tilts “orientations.” The orientation and solar insolation (specific to a location) have a direct effect on the PV production level. The calibration project selected the 100 largest population Metropolitan Statistical Areas (MSAs) and relied on weights derived from orientation data from California Solar Initiative dataset to develop typical outputs for each of the 100 MSAs. It then was expanded from an annual estimate to a monthly estimate. A further description of this model is located [here](#). A listing of the MSAs are included in Appendix 1.

Using Form EIA-861 data for service territories, which lists the counties that each electric distribution company (EDC) provides service, and NREL solar insolation data by county a simple average of insolation values by EDC is calculated.

Using the estimation model, we produce by utility, by state and by sector an estimate of generation. All the utilities’ capacity and generation estimates are summed by state and sector and a KWh/KW rate by state and sector is calculated.

Capacity from the Form EIA-860 that is net metered is subtracted from the total capacity by state and sector as well as the capacity reported on the EIA-826 from TPOs, resulting in a new “net” capacity amount. This capacity amount is multiplied by the KWh/KW rate to produce the non-TPO generation estimate and then it is added to the TPO reported sales to ultimate customers from the EIA-826 to obtain a final estimate for generation and a blended KWh/KW rate is calculated. The estimate for generation is aggregated by US census regions and US totals. The RSEs for capacity are checked for level of error and if they pass, the summary data by state, US census region and US total are reported in the EPM.

Appendix 2 contains a flow diagram of the data inputs, data quality control checks and data analysis required to perform this estimation.

Appendix 1- MSAs

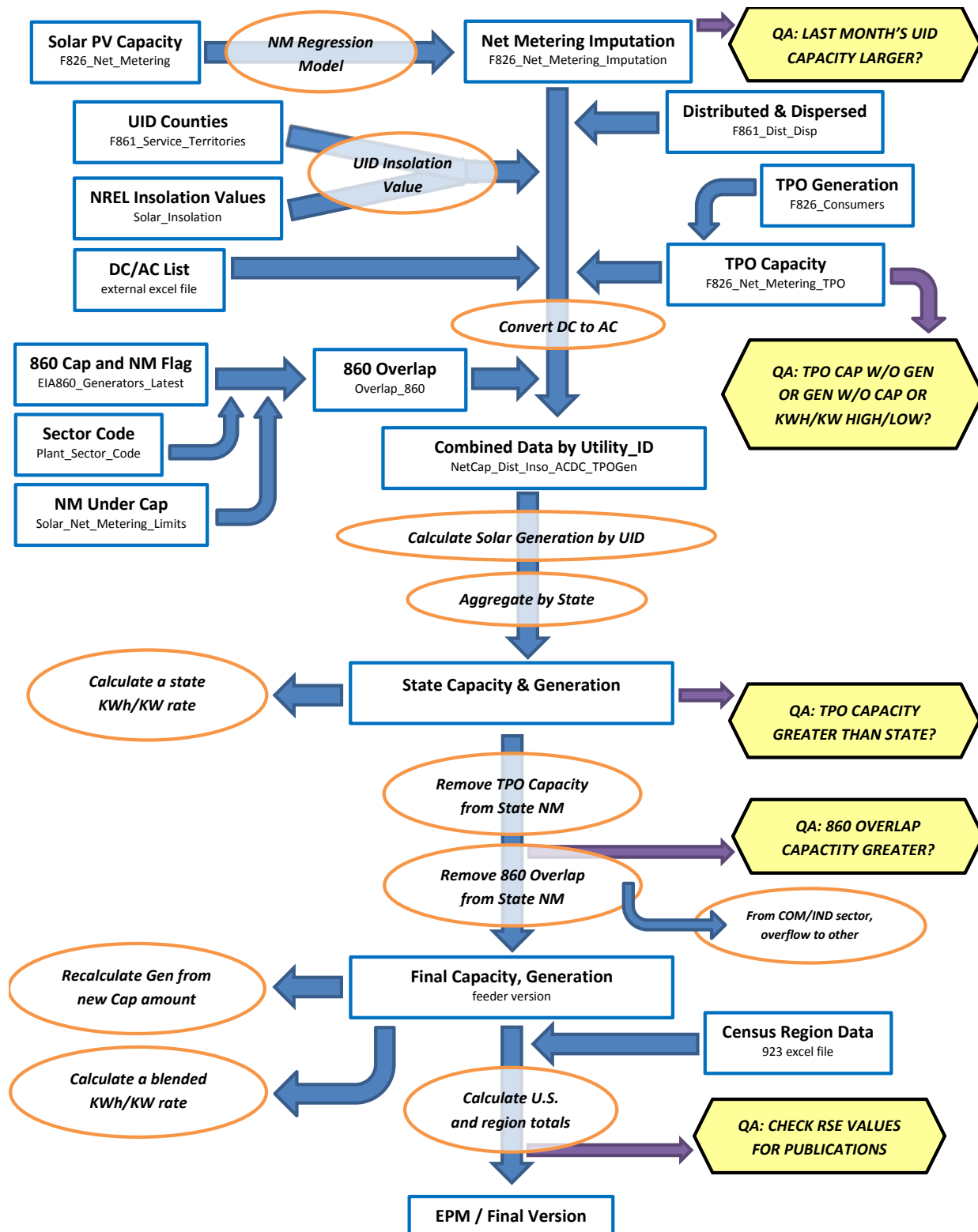
TMY3 (1991-2005) Weather Stations by MSA

Site	Weather Location	MSA
1	USA NY New York Central Park Obs.	New York-Newark-Jersey City, NY-NJ-PA MSA
2	USA CA Los Angeles Intl Airport	Los Angeles-Long Beach-Anaheim, CA MSA
3	USA IL Chicago Midway Airport	Chicago-Naperville-Elgin, IL-IN-WI MSA
4	USA TX Dallas-fort Worth Intl Airport	Dallas-Fort Worth-Arlington, TX MSA
5	USA TX Houston Bush Intercontinental	Houston-The Woodlands-Sugar Land, TX MSA
6	USA PA Philadelphia Int'l Airport	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD MSA
7	USA VA Washington Dc Reagan Airport	Washington-Arlington-Alexandria, DC-VA-MD-WV MSA
8	USA FL Miami Intl Airport	Miami-Fort Lauderdale-West Palm Beach, FL MSA
9	USA GA Atlanta Hartsfield Intl Airport	Atlanta-Sandy Springs-Roswell, GA MSA
10	USA MA Boston Logan Int'l Airport	Boston-Cambridge-Newton, MA-NH MSA
11	USA CA San Francisco Intl Airport	San Francisco-Oakland-Hayward, CA MSA
12	USA AZ Phoenix Sky Harbor Intl Airport	Phoenix-Mesa-Scottsdale, AZ MSA
13	USA CA Riverside Municipal Airport	Riverside-San Bernardino-Ontario, CA MSA
14	USA MI Detroit City Airport	Detroit-Warren-Dearborn, MI MSA
15	USA WA Seattle Seattle-Tacoma Intl Airport	Seattle-Tacoma-Bellevue, WA MSA
16	USA MN Minneapolis-St. Paul Int'l Arp	Minneapolis-St. Paul-Bloomington, MN-WI MSA
17	USA CA San Diego Lindbergh Field	San Diego-Carlsbad, CA MSA
18	USA FL Tampa Int'l Airport	Tampa-St. Petersburg-Clearwater, FL MSA
19	USA MO St Louis Lambert Int'l Airport	St. Louis, MO-IL MSA
20	USA MD Baltimore-Washington Int'l Airport	Baltimore-Columbia-Towson, MD MSA
21	USA CO Denver Centennial [Golden - NREL]	Denver-Aurora-Lakewood, CO MSA
22	USA PA Pittsburgh Allegheny Co Airport	Pittsburgh, PA MSA
23	USA NC Charlotte Douglas Intl Airport	Charlotte-Concord-Gastonia, NC-SC MSA
24	USA OR Portland Hillsboro	Portland-Vancouver-Hillsboro, OR-WA MSA
25	USA TX San Antonio Intl Airport	San Antonio-New Braunfels, TX MSA
26	USA FL Orlando Intl Airport	Orlando-Kissimmee-Sanford, FL MSA
27	USA CA Sacramento Executive Airport	Sacramento-Roseville-Arden-Arcade, CA MSA
28	USA OH Cincinnati Municipal Airport	Cincinnati, OH-KY-IN MSA
29	USA OH Cleveland Hopkins Intl Airport	Cleveland-Elyria, OH MSA
30	USA MO Kansas City Int'l Airport	Kansas City, MO-KS MSA
31	USA NV Las Vegas McCarran Intl Airport	Las Vegas-Henderson-Paradise, NV MSA
32	USA OH Columbus Port Columbus Intl A	Columbus, OH MSA
33	USA IN Indianapolis Intl Airport	Indianapolis-Carmel-Anderson, IN MSA
34	USA CA San Jose Intl Airport	San Jose-Sunnyvale-Santa Clara, CA MSA
35	USA TX Austin Mueller Municipal Airport	Austin-Round Rock, TX MSA
36	USA TN Nashville Int'l Airport	Nashville-Davidson-Murfreesboro-Franklin, TN MSA

37	USA VA Norfolk Int'l Airport	Virginia Beach-Norfolk-Newport News, VA-NC MSA
38	USA RI Providence T F Green State	Providence-Warwick, RI-MA MSA
39	USA WI Milwaukee Mitchell Intl Airport	Milwaukee-Waukesha-West Allis, WI MSA
40	USA FL Jacksonville Craig	Jacksonville, FL MSA
41	USA TN Memphis Int'l Airport	Memphis, TN-MS-AR MSA
42	USA OK Oklahoma City Will Rogers	Oklahoma City, OK MSA
43	USA KY Louisville Bowman Field	Louisville/Jefferson County, KY-IN MSA
44	USA VA Richmond Int'l Airport	Richmond, VA MSA
45	USA LA New Orleans Alvin Callender	New Orleans-Metairie, LA MSA
46	USA CT Hartford Bradley Intl Airport	Hartford-West Hartford-East Hartford, CT MSA
47	USA NC Raleigh Durham Int'l	Raleigh, NC MSA
48	USA UT Salt Lake City Int'l Airport	Salt Lake City, UT MSA
49	USA AL Birmingham Municipal Airport	Birmingham-Hoover, AL MSA
50	USA NY Buffalo Niagara Intl Airport	Buffalo-Cheektowaga-Niagara Falls, NY MSA
51	USA NY Rochester Greater Rochester	Rochester, NY MSA
52	USA MI Grand Rapids Kent County Int'l Airport	Grand Rapids-Wyoming, MI MSA
53	USA AZ Tucson Int'l Airport	Tucson, AZ MSA
54	USA HI Honolulu Intl Airport	Urban Honolulu, HI MSA
55	USA OK Tulsa Int'l Airport	Tulsa, OK MSA
56	USA CA Fresno Yosemite Intl Airport	Fresno, CA MSA
57	USA CT Bridgeport Sikorsky Memorial	Bridgeport-Stamford-Norwalk, CT MSA
58	USA MA Worcester Regional Airport	Worcester, MA-CT MSA
59	USA NM Albuquerque Intl Airport	Albuquerque, NM MSA
60	USA NE Omaha Eppley Airfield	Omaha-Council Bluffs, NE-IA MSA
61	USA NY Albany County Airport	Albany-Schenectady-Troy, NY MSA
62	USA CA Bakersfield Meadows Field	Bakersfield, CA MSA
63	USA CT New Haven Tweed Airport	New Haven-Milford, CT MSA
64	USA TN Knoxville McGhee Tyson Airport	Knoxville, TN MSA
65	USA SC Greenville Downtown Airport	Greenville-Anderson-Mauldin, SC MSA
66	USA CA Oxnard Airport	Oxnard-Thousand Oaks-Ventura, CA MSA
67	USA TX El Paso Int'l Airport	El Paso, TX MSA
68	USA PA Allentown Lehigh Valley Intl	Allentown-Bethlehem-Easton, PA-NJ MSA
69	USA LA Baton Rouge Ryan Airport	Baton Rouge, LA MSA
70	USA TX McAllen Miller Intl Airport	McAllen-Edinburg-Mission, TX MSA
71	USA OH Dayton Int'l Airport	Dayton, OH MSA
72	USA SC Columbia Metro Airport	Columbia, SC MSA
73	USA NC Greensboro Piedmont Triad Int'l Airport	Greensboro-High Point, NC MSA
74	USA FL Sarasota Bradenton	North Port-Sarasota-Bradenton, FL MSA
75	USA AR Little Rock Adams Field	Little Rock-North Little Rock-Conway, AR MSA
76	USA SC Charleston Intl Airport	Charleston-North Charleston, SC MSA
77	USA OH Akron Akron-canton Reg. Airport	Akron, OH MSA
78	USA CA Stockton Metropolitan Airport	Stockton-Lodi, CA MSA

79	USA CO Colorado Springs Muni Airport	Colorado Springs, CO MSA
80	USA NY Syracuse Hancock Int'l Airport	Syracuse, NY MSA
81	USA FL Fort Myers Page Field	Cape Coral-Fort Myers, FL MSA
82	USA NC Winston-Salem Reynolds Airport	Winston-Salem, NC MSA
83	USA ID Boise Air Terminal	Boise City, ID MSA
84	USA KS Wichita Mid-continent Airport	Wichita, KS MSA
85	USA WI Madison Dane Co Regional Airport	Madison, WI MSA
86	USA MA Worcester Regional Airport	Springfield, MA MSA
87	USA FL Lakeland Linder Regional Airport	Lakeland-Winter Haven, FL MSA
88	USA UT Ogden Hinkley Airport	Ogden-Clearfield, UT MSA
89	USA OH Toledo Express Airport	Toledo, OH MSA
90	USA FL Daytona Beach Intl Airport	Deltona-Daytona Beach-Ormond Beach, FL MSA
91	USA IA Des Moines Intl Airport	Des Moines-West Des Moines, IA MSA
92	USA GA Augusta Bush Field	Augusta-Richmond County, GA-SC MSA
93	USA MS Jackson Int'l Airport	Jackson, MS MSA
94	USA UT Provo Muni	Provo-Orem, UT MSA
95	USA PA Wilkes-Barre Scranton Intl Airport	Scranton-Wilkes-Barre-Hazleton, PA MSA
96	USA PA Harrisburg Capital City Airport	Harrisburg-Carlisle, PA MSA
97	USA OH Youngstown Regional Airport	Youngstown-Warren-Boardman, OH-PA MSA
98	USA FL Melbourne Regional Airport	Palm Bay-Melbourne-Titusville, FL MSA
99	USA TN Chattanooga Lovell Field Airport	Chattanooga, TN-GA MSA
100	USA WA Spokane Int'l Airport	Spokane-Spokane Valley, WA MSA

Appendix 2 – Flow diagram of data sources and analysis



¹ The basic technique employed is described in the paper “Model-Based Sampling and Inference,” on the EIA website. Additional references can be found on the InterStat website (<http://interstat.statjournals.net/>). See the following sources: Knaub, J.R., Jr. (1999a), “Using Prediction-Oriented Software for Survey Estimation,” InterStat, August 1999, <http://interstat.statjournals.net/>; Knaub, J.R. Jr. (1999b), “Model-Based Sampling, Inference and Imputation,” EIA web site: <http://www.eia.gov/cneaf/electricity/forms/eiawebme.pdf>; Knaub, J.R., Jr. (2005), “Classical Ratio Estimator,” InterStat, October 2005, <http://interstat.statjournals.net/>; Knaub, J.R., Jr. (2007a), “Cutoff Sampling and Inference,” InterStat, April 2007, <http://interstat.statjournals.net/>; Knaub, J.R., Jr. (2008), “Cutoff Sampling.” Definition in Encyclopedia of Survey Research Methods, Editor: Paul J. Lavrakas, Sage, to appear; Knaub, J.R., Jr. (2000), “Using Prediction-Oriented Software for Survey Estimation - Part II: Ratios of Totals,” InterStat, June 2000, <http://interstat.statjournals.net/>; Knaub, J.R., Jr. (2001), “Using Prediction-Oriented Software for Survey Estimation - Part III: Full-Scale Study of Variance and Bias,” InterStat, June 2001, <http://interstat.statjournals.net/>.

² See the following sources: Bahillo, A. et al. Journal of Energy Resources Technology, “NOx and N2O Emissions During Fluidized Bed Combustion of Leather Wastes.” Volume 128, Issue 2, June 2006. pp. 99-103; U.S. Energy Information Administration. *Renewable Energy Annual 2004*. “Average Heat Content of Selected Biomass Fuels.” Washington, DC, 2005; Penn State Agricultural College Agricultural and Biological Engineering and Council for Solid Waste Solutions. Garth, J. and Kowal, P. Resource Recovery, Turning Waste into Energy, University Park, PA, 1993; Utah State University Recycling Center Frequently Asked Questions. Published at <http://www.usu.edu/recycle/faq.htm>. Accessed December 2006.

³ Biogenic components include newsprint, paper, containers and packaging, leather, textiles, yard trimmings, food wastes, and wood. Non-biogenic components include plastics, rubber and other miscellaneous non-biogenic waste.

Table C.1 Average Heat Content of Fossil-Fuel Receipts, May 2016

Census Division and State	Coal (Million Btu per Ton)	Petroleum Liquids (Million Btu per Barrel)	Petroleum Coke (Million Btu per Ton)	Natural Gas (Million Btu per Thousand Cubic Feet)
New England	25.43	5.95	--	1.03
Connecticut	--	5.67	--	1.03
Maine	25.21	6.21	--	1.01
Massachusetts	--	6.00	--	1.03
New Hampshire	25.50	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.61	5.80	--	1.03
New Jersey	25.89	5.79	--	1.03
New York	26.20	5.97	--	1.03
Pennsylvania	23.47	5.80	--	1.04
East North Central	20.40	5.79	27.01	1.04
Illinois	17.71	5.80	--	1.03
Indiana	22.52	5.76	--	1.05
Michigan	18.67	5.81	26.40	1.03
Ohio	24.70	5.77	28.27	1.06
Wisconsin	17.62	5.80	27.52	1.03
West North Central	16.58	5.75	--	1.05
Iowa	17.70	5.73	--	1.06
Kansas	17.15	5.66	--	1.03
Minnesota	17.62	5.78	--	1.05
Missouri	17.55	5.76	--	1.02
Nebraska	16.84	--	--	1.08
North Dakota	13.21	5.82	--	1.00
South Dakota	16.46	--	--	1.07
South Atlantic	23.47	5.97	27.62	1.03
Delaware	25.94	5.84	--	1.04
District of Columbia	--	--	--	--
Florida	23.65	5.79	27.70	1.02
Georgia	20.44	5.87	26.42	1.03
Maryland	24.64	5.81	--	1.05
North Carolina	24.91	5.80	--	1.04
South Carolina	25.10	5.91	--	1.03
Virginia	21.87	6.20	--	1.06
West Virginia	24.46	5.80	--	1.08
East South Central	21.19	5.79	--	1.03
Alabama	20.10	5.67	--	1.03
Kentucky	22.03	5.84	--	1.02
Mississippi	12.30	--	--	1.04
Tennessee	23.89	5.76	--	1.01
West South Central	15.28	5.84	28.65	1.03
Arkansas	17.40	5.85	--	1.02
Louisiana	15.76	--	28.65	1.03
Oklahoma	17.46	--	--	1.05
Texas	14.63	5.84	--	1.03
Mountain	18.98	5.78	--	1.04
Arizona	19.55	5.79	--	1.04
Colorado	18.83	--	--	1.08
Idaho	--	--	--	1.02
Montana	16.83	5.92	--	--
Nevada	17.94	5.65	--	1.04
New Mexico	18.37	5.66	--	1.06
Utah	22.17	5.88	--	1.04
Wyoming	17.41	5.88	--	1.04
Pacific Contiguous	22.90	--	--	1.04
California	23.10	--	--	1.03
Oregon	--	--	--	1.06
Washington	15.83	--	--	1.08
Pacific Noncontiguous	20.41	6.13	--	1.00
Alaska	14.00	--	--	1.00
Hawaii	21.87	6.13	--	--
U.S. Total	19.58	6.01	27.89	1.03

'Coal' includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
'Petroleum Liquids' include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
'Petroleum Coke' includes petroleum coke and synthesis gas derived from petroleum coke.
'Natural Gas' includes a small amount of supplemental gaseous fuels.
Notes: See Glossary for definitions. Values are preliminary. Data represents weighted values.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table C.2. Comparison of Preliminary Monthly Data Versus Final Monthly Data at the U.S. Level, 2012 through 2014

Item	Mean Absolute Value of Percent Change Total (All Sectors)		
	2012	2013	2014
Net Generation			
Coal	0.20%	0.31%	0.25%
Petroleum Liquids	4.25%	4.04%	2.32%
Petroleum Coke	2.45%	0.95%	2.96%
Natural Gas	0.46%	0.98%	0.42%
Other Gases	6.36%	5.81%	4.12%
Hydroelectric	0.70%	0.65%	0.49%
Nuclear	0.00%	0.00%	0.01%
Other	1.08%	0.56%	0.43%
Total	0.20%	0.19%	0.08%
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.16%	0.07%	0.13%
Petroleum Liquids	4.47%	3.49%	2.17%
Petroleum Coke	3.99%	1.03%	3.19%
Natural Gas	0.37%	0.99%	0.48%
Fuel Stocks for Electric Power Sector			
Coal	0.57%	0.25%	0.38%
Petroleum Liquids	0.64%	2.54%	4.25%
Petroleum Coke	8.22%	0.08%	0.61%
Retail Sales			
Residential	0.16%	0.26%	0.30%
Commercial	0.39%	0.22%	0.38%
Industrial	0.50%	3.20%	4.39%
Transportation	2.44%	1.45%	0.44%
Total	0.27%	0.90%	1.10%
Revenue			
Residential	0.13%	0.34%	0.43%
Commercial	0.20%	0.47%	0.47%
Industrial	0.20%	4.28%	5.66%
Transportation	1.09%	3.84%	1.92%
Total	0.13%	0.76%	1.01%
Average Retail Price			
Residential	0.10%	0.12%	0.12%
Commercial	0.27%	0.30%	0.20%
Industrial	0.39%	1.05%	1.20%
Transportation	1.57%	2.49%	2.18%
Total	0.21%	0.17%	0.16%
Receipt of Fossil Fuels			
Coal	0.99%	2.50%	2.20%
Petroleum Liquids	23.68%	0.79%	0.49%
Petroleum Coke	13.72%	2.30%	2.03%
Natural Gas	10.47%	0.47%	0.26%
Cost of Fossil Fuels			
Coal	0.90%	0.18%	0.18%
Petroleum Liquids	0.53%	0.14%	0.04%
Petroleum Coke	11.66%	1.22%	1.03%
Natural Gas	0.77%	0.02%	0.06%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.

Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.

Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.

Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.

Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

Fuel Stocks are end-of-month values.

See technical notes (<http://www.eia.gov/cneaf/electricity/epm/appenc.pdf>) for additional information on the Commercial, Industrial and Transportation sectors.

Cost of Fossil Fuels represent weighted values.

Notes: Mean absolute value of percent change is the unweighted average of the absolute percent cahnges.

Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report'; Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report'; and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Table C.3. Comparison of Preliminary Annual Data Versus Final Annual Data at the U.S. Level, 2012 through 2014

Item	2012			2013			2014		
	Preliminary Annual Data	Final Annual Data	Percent Change	Preliminary Annual Data	Final Annual Data	Percent Change	Preliminary Annual Data	Final Annual Data	Percent Change
Net Generation (Thousand MWh)									
Coal	1,517,203	1,514,043	-0.21%	1,585,998	1,581,115	-0.31%	1,585,697	1,581,710	-0.25%
Petroleum Liquids	13,209	13,403	1.47%	13,410	13,820	3.06%	18,708	18,276	-2.31%
Petroleum Coke	9,691	9,787	0.99%	13,453	13,344	-0.81%	11,781	11,955	1.48%
Natural Gas	1,230,708	1,225,894	-0.39%	1,113,665	1,124,836	1.00%	1,121,928	1,126,609	0.42%
Other Gases	11,212	11,898	6.11%	12,271	12,853	4.75%	11,578	12,022	3.83%
Hydroelectric	271,878	271,290	-0.22%	264,713	263,884	-0.31%	252,540	253,193	0.26%
Nuclear	769,331	769,331	0.00%	789,017	789,016	0.00%	797,067	797,166	0.01%
Other	231,253	232,120	0.37%	265,683	267,096	0.53%	293,636	292,674	-0.33%
Total	4,054,485	4,047,765	-0.17%	4,058,209	4,065,964	0.19%	4,092,935	4,093,606	0.02%
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	826,700	825,734	-0.12%	860,790	860,729	-0.01%	854,416	853,634	-0.09%
Petroleum Liquids (1,000 barrels)	22,523	22,604	0.36%	22,751	23,231	2.11%	32,084	31,531	-1.72%
Petroleum Coke (1,000 tons)	3,552	3,675	3.44%	4,893	4,852	-0.83%	4,325	4,412	2.02%
Natural Gas (1,000 Mcf)	9,465,207	9,484,710	0.21%	8,512,483	8,596,299	0.98%	8,502,964	8,544,387	0.49%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	184,923	185,116	0.10%	147,973	147,884	-0.06%	151,362	151,548	0.12%
Petroleum Liquids (1,000 barrels)	31,897	32,224	1.03%	31,045	31,673	2.03%	32,139	33,505	4.25%
Petroleum Coke (1,000 tons)	495	495	-0.01%	390	390	-0.01%	847	827	-2.29%
Retail Sales (Million kWh)									
Residential	1,374,594	1,374,515	-0.01%	1,391,102	1,394,812	0.27%	1,402,911	1,407,208	0.31%
Commercial	1,323,844	1,327,101	0.25%	1,338,464	1,337,079	-0.10%	1,357,505	1,352,158	-0.39%
Industrial	980,837	985,714	0.50%	954,731	985,352	3.21%	955,488	997,576	4.40%
Transportation	7,504	7,320	-2.45%	7,525	7,625	1.32%	7,776	7,758	-0.24%
Total	3,686,780	3,694,650	0.21%	3,691,822	3,724,868	0.90%	3,723,681	3,764,700	1.10%
Revenue (Million Dollars)									
Residential	163,352	163,280	-0.04%	168,547	169,131	0.35%	175,404	176,178	0.44%
Commercial	133,908	133,898	-0.01%	137,779	137,188	-0.43%	145,889	145,253	-0.44%
Industrial	65,691	65,761	0.11%	65,111	67,934	4.33%	67,019	70,855	5.72%
Transportation	754	747	-0.90%	775	805	3.84%	798	810	1.51%
Total	363,705	363,687	0.00%	372,213	375,058	0.76%	389,111	393,096	1.02%
Average Retail Price (Cents/kWh)									
Residential	11.88	11.88	-0.04%	12.12	12.13	0.08%	12.50	12.52	0.13%
Commercial	10.12	10.09	-0.25%	10.29	10.26	-0.33%	10.75	10.74	-0.04%
Industrial	6.70	6.67	-0.39%	6.82	6.89	1.09%	7.01	7.10	1.26%
Transportation	10.05	10.21	1.59%	10.30	10.55	2.49%	10.27	10.45	1.75%
Total	9.87	9.84	-0.22%	10.08	10.07	-0.13%	10.45	10.44	-0.08%
Receipt of Fossil Fuels									
Coal (1,000 tons)	849,667	841,183	-1.00%	803,206	823,222	2.49%	836,196	854,560	2.20%
Petroleum Liquids (1,000 barrels)	25,485	19,464	-23.63%	20,348	20,413	0.32%	28,355	28,514	0.56%
Petroleum Coke (1,000 tons)	4,858	4,180	-13.95%	4,555	4,660	2.31%	5,091	5,195	2.03%
Natural Gas (1,000 Mcf)	10,631,822	9,531,389	-10.35%	8,463,303	8,503,424	0.47%	8,423,883	8,431,423	0.09%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.40	2.38	-0.89%	2.35	2.34	-0.12%	2.37	2.37	0.02%
Petroleum Liquids (1,000 barrels)	21.82	21.85	0.12%	20.59	20.56	-0.12%	19.89	19.89	-0.03%
Petroleum Coke (1,000 tons)	2.54	2.24	-11.90%	2.16	2.17	0.70%	1.96	1.98	0.97%
Natural Gas (1,000 Mcf)	3.40	3.42	0.64%	4.33	4.33	0.03%	4.99	4.99	0.01%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.

Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.

Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.

Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.

Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

Fuel Stocks are end-of-year values.

See technical notes (<http://www.eia.gov/cneaf/electricity/epm/appenc.pdf>) for additional information on the Commercial, Industrial and Transportation sectors.

Cost of Fossil Fuels represent weighted values.

Notes: The average revenue per kilowatthour is calculated by dividing revenue by sales. Totals may not equal sum of components because of independent rounding.

Percent changes refer to the difference between the preliminary data published in the Electric Power Monthly (EPM) and the final data published in the EPM. Values for 2014 are Final.

Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report';

Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report'; Form EIA-920 'Combined Heat and Power Plant Report';

and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Table C.4. Unit of Measure Equivalents for Electricity

Unit	Equivalent
Kilowatt (kW)	1,000 (One Thousand) Watts
Megawatt (MW)	1,000,000 (One Million) Watts
Gigawatt (GW)	1,000,000,000 (One Billion) Watts
Terawatt (TW)	1,000,000,000,000 (One Trillion) Watts
Gigawatt	1,000,000 (One Million) Kilowatts
Thousand Gigawatts	1,000,000,000 (One Billion) Kilowatts
Kilowatthours (kWh)	1,000 (One Thousand) Watthours
Megawatthours (MWh)	1,000,000 (One Million) Watthours
Gigawatthours (GWh)	1,000,000,000 (One Billion) Watthours
Terawatthours (TWh)	1,000,000,000,000 (One Trillion) Watthours
Gigawatthours	1,000,000 (One Million) Kilowatthours
Thousand Gigawatthours	1,000,000,000(One Billion Kilowatthours

Source: U.S. Energy Information Administration

Glossary

Anthracite: The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). Note: Since the 1980's, anthracite refuse or mine waste has been used for steam electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Ash: Impurities consisting of silica, iron, aluminum, and other noncombustible matter that are contained in coal. Ash increases the weight of coal, adds to the cost of handling, and can affect its burning characteristics. Ash content is measured as a percent by weight of coal on a "received" or a "dry" (moisture-free, usually part of a laboratory analysis) basis.

Ash content: The amount of ash contained in the fuel (except gas) in terms of percent by weight.

Average Price of Electricity to Ultimate Consumers (formerly known as Average Revenue per Kilowatthour): The average revenue per kilowatthour of electricity sold by sector (residential, commercial, industrial, or other) and geographic area (State, Census division, and national), is calculated by dividing the total monthly revenue by the corresponding total monthly sales for each sector and geographic area.

Barrel: A unit of volume equal to 42 U.S. gallons.

Biomass: Organic non-fossil material of biological origin constituting a renewable energy resource.

Bituminous coal: A dense coal, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steam-electric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

British thermal unit: The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit).

Btu: The abbreviation for British thermal unit(s).

Capacity: See Generator Capacity and Generator Name Plate Capacity (Installed).

Census Divisions: Any of nine geographic areas of the United States as defined by the U.S. Department of Commerce, Bureau of the Census. The divisions, each consisting of several States, are defined as follows:

- 1) *New England:* Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont;
- 2) *Middle Atlantic:* New Jersey, New York, and Pennsylvania;
- 3) *East North Central:* Illinois, Indiana, Michigan, Ohio, and Wisconsin;
- 4) *West North Central:* Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota;
- 5) *South Atlantic:* Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, and West Virginia;
- 6) *East South Central:* Alabama, Kentucky, Mississippi, and Tennessee;
- 7) *West South Central:* Arkansas, Louisiana, Oklahoma, and Texas;
- 8) *Mountain:* Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming;
- 9) *Pacific:* Alaska, California, Hawaii, Oregon, and Washington.

Note: Each division is a sub-area within a broader Census Region. In some cases, the Pacific division is subdivided into the Pacific Contiguous area (California, Oregon, and Washington) and the Pacific Noncontiguous area (Alaska and Hawaii).

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Coal synfuel: Coal-based solid fuel that has been processed by a coal synfuel plant; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coke (petroleum): A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

Combined cycle: An electric generating technology in which electricity is produced from otherwise lost waste heat exiting from one or more gas (combustion) turbine-generators. The exiting heat from the combustion turbine(s) is routed to a conventional boiler or to a heat recovery steam generator for utilization by a steam turbine in the production of additional electricity.

Combined heat and power (CHP): Includes plants designed to produce both heat and electricity from a single heat source. *Note:* This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.

Consumption (fuel): The use of energy as a source of heat or power or as a raw material input to a manufacturing process.

Cost: The amount paid to acquire resources, such as plant and equipment, fuel, or labor services.

Demand (electric): The rate at which electric energy is delivered to or by a system, part of a system, or piece of equipment, at a given instant or averaged over any designated period of time.

Diesel: A distillate fuel oil that is used in diesel engines such as those used for transportation and for electric power generation.

Distillate fuel oil: *A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.*

1) *No. 1 Distillate:* A light petroleum distillate that can be used as either a diesel fuel (see No. 1 Diesel Fuel) or a fuel oil. See No. 1 Fuel Oil.

- *No. 1 Diesel fuel:* A light distillate fuel oil that has distillation temperatures of 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines, such as those in city buses and similar vehicles. See No. 1 Distillate above.
- *No. 1 Fuel oil:* A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See No. 1 Distillate above.

2) *No. 2 Distillate:* A petroleum distillate that can be used as either a diesel fuel (see No. 2 Diesel Fuel definition below) or a fuel oil. See No. 2 Fuel oil below.

- *No. 2 Diesel fuel:* A fuel that has distillation temperatures of 500 degrees Fahrenheit at the 10-percent recovery point and 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See No. 2 Distillate above.

3) *No. 4 Fuel*: A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms with ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

- *No. 4 Diesel fuel and No. 4 Fuel oil*: See No. 4 Fuel above.

Electric industry restructuring: The process of replacing a monopolistic system of electric utility suppliers with competing sellers, allowing individual ultimate customers to choose their supplier but still receive delivery over the power lines of the local utility. It includes the reconfiguration of vertically integrated electric utilities.

Electric plant (physical): A facility containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric power sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-- i. e., North American Industry Classification System 22 plants.

Electric utility: A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investor-owned electric utilities, municipal and State utilities, Federal electric utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included. Note: Due to the issuance of FERC Order 888 that required traditional electric utilities to functionally unbundle their generation, transmission, and distribution operations, "electric utility" currently has inconsistent interpretations from State to State.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity generation: The process of producing electric energy or the amount of electric energy produced by transforming other forms of energy, commonly expressed in kilowatthours (kWh) or megawatthours (MWh).

Electricity generators: The facilities that produce only electricity, commonly expressed in kilowatthours (kWh) or megawatthours (MWh).

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy conservation features: This includes building shell conservation features, HVAC conservation features, lighting conservation features, any conservation features, and other conservation features incorporated by the building. However, this category does not include any demand-side management (DSM) program participation by the building. Any DSM program participation is included in the DSM Programs.

Energy efficiency: Refers to programs that are aimed at reducing the energy used by specific end-use devices and systems, typically without affecting the services provided. These programs reduce overall electricity consumption (reported in megawatthours), often without explicit consideration for the timing of program-induced savings. Such savings are generally achieved by substituting technically more advanced equipment to produce the same level of end-use services (e.g. lighting, heating, motor drive) with less electricity. Examples include high-efficiency appliances, efficient lighting programs, high-efficiency heating, ventilating and air conditioning (HVAC) systems or control modifications, efficient building design, advanced electric motor drives, and heat recovery systems.

Energy service provider: An energy entity that provides service to an ultimate consumer.

Energy source: Any substance or natural phenomenon that can be consumed or transformed to supply heat or power. Examples include petroleum, coal, natural gas, nuclear, biomass, electricity, wind, sunlight, geothermal, water movement, and hydrogen in fuel cells.

Energy-only service: Sales services for ultimate consumers for which the company provided only the energy consumed, where another entity provides delivery services.

Fossil fuel: An energy source formed in the earth's crust from decayed organic material. The common fossil fuels are petroleum, coal, and natural gas.

Franchised service area: A specified geographical area in which a utility has been granted the exclusive right to serve customers. A franchise allows an entity to use city streets, alleys and other public lands in order to provide, distribute, and sell services to the community.

Fuel: Any material substance that can be consumed to supply heat or power. Included are petroleum, coal, and natural gas (the fossil fuels), and other consumable materials, such as uranium, biomass, and hydrogen.

Gas: A fuel burned under boilers and by internal combustion engines for electric generation. These include natural, manufactured and waste gas.

Gas turbine plant: An electric generating facility in which the prime mover is a gas (combustion) turbine. A gas turbine typically consists of an air compressor and one or more combustion chambers where either liquid or gaseous fuel is burned. The resulting hot gases are passed through the turbine where they expand to drive both an electric generator and the compressor.

Generating unit: Any combination of physically connected generators, reactors, boilers, combustion turbines, or other prime movers operated together to produce electric power.

Generator: A machine that converts mechanical energy into electrical energy.

Generator capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, adjusted for ambient conditions.

Generator nameplate capacity (installed): The maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer. Installed generator nameplate capacity is commonly expressed in megawatts (MW) and is usually indicated on a nameplate physically attached to the generator.

Geothermal: Pertaining to heat within the Earth.

Geothermal energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust. Water or steam extracted from geothermal reservoirs can be used for geothermal heat pumps, water heating, or electricity generation.

Gigawatt (GW): One billion watts.

Gigawatthour (GWh): One billion watthours.

Gross generation: The total amount of electric energy produced by generating units and measured at the generating terminal in kilowatthours (kWh) or megawatthours (MWh).

Heat content: The amount or number of British thermal units (Btu) produced by the combustion of fuel, measured in Btu/unit of measure.

Hydroelectric power: The production of electricity from the kinetic energy of falling water.

Hydroelectric power generation: Electricity generated by an electric power plant whose turbines are driven by falling water. It includes electric utility and industrial generation of hydroelectricity, unless otherwise specified. Generation is reported on a net basis, i.e., on the amount of electric energy generated after the electric energy consumed by station auxiliaries and the losses in the transformers that are considered integral parts of the station are deducted.

Hydroelectric pumped storage: Hydroelectricity that is generated during peak loads by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen: A colorless, odorless, highly flammable gaseous element. It is the lightest of all gases and the most abundant element in the universe, occurring chiefly in combination with oxygen in water and also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Independent power producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an electric utility.

Industrial sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); natural gas distribution (NAICS code 2212); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

Interdepartmental service (electric): Interdepartmental service includes amounts charged by the electric department at tariff or other specified rates for electricity supplied by it to other utility departments.

Internal combustion plant: A plant in which the prime mover is an internal combustion engine. An internal combustion engine has one or more cylinders in which the process of combustion takes place, converting energy released from the rapid burning of a fuel-air mixture into mechanical energy. Diesel or gas-fired engines are the principal types used in electric plants. The plant is usually operated during periods of high demand for electricity.

Investor-owned utility (IOU): A privately-owned electric utility whose stock is publicly traded. It is rate regulated and authorized to achieve an allowed rate of return.

Jet fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Kerosene: A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil.

Kilowatt (kW): One thousand watts.

Kilowatthour (kWh): One thousand watthours.

Light oil: Lighter fuel oils distilled off during the refining process. Virtually all petroleum used in internal combustion and gas-turbine engines is light oil.

Lignite: The lowest rank of coal, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million Btu per ton on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Manufactured gas: A gas obtained by destructive distillation of coal, or by thermal decomposition of oil, or by the reaction of steam passing through a bed of heated coal or coke. Examples are coal gases, coke oven gases, producer gas, blast furnace gas, blue (water) gas, and carbureted water gas

Mcf: One thousand cubic feet.

Megawatt (MW): One million watts of electricity.

Megawatthour (MWh): One million watthours.

Municipal utility: A nonprofit utility, owned by a local municipality and operated as a department thereof, governed by a city council or an independently elected or appointed board; primarily involved in the distribution and/or sale of electric power to ultimate consumers.

Natural gas: A gaseous mixture of hydrocarbon compounds, the primary one being methane. Note: The Energy Information Administration measures wet natural gas and its two sources of production, associated/dissolved natural gas and nonassociated natural gas, and dry natural gas, which is produced from wet natural gas.

- 1) *Wet natural gas:* A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in porous rock formations at reservoir conditions. The principal hydrocarbons normally contained in the mixture are methane, ethane, propane, butane, and pentane. Typical nonhydrocarbon gases that may be present in reservoir natural gas are water vapor, carbon dioxide, hydrogen sulfide, nitrogen and trace amounts of helium. Under reservoir conditions, natural gas and its associated liquefiable portions occur either in a single gaseous phase in the reservoir or in solution with crude oil and are not distinguishable at the time as separate substances. Note: The Securities and Exchange Commission and the Financial Accounting Standards Board refer to this product as natural gas.
 - Associated-dissolved natural gas: Natural gas that occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved gas).
 - Nonassociated natural gas: Natural gas that is not in contact with significant quantities of crude oil in the reservoir.
- 2) *Dry natural gas:* Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. Note: Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Net generation: The amount of gross generation less the electrical energy consumed at the generating station(s) for station service or auxiliaries. Note: Electricity required for pumping at pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

Net summer capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of May 1 through October 31). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Net winter capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of peak winter demand (period of November 1 through April 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

North American Electric Reliability Council (NERC): A council formed in 1968 by the electric utility industry to promote the reliability and adequacy of bulk power supply in the electric utility systems of North America. The NERC Regions are:

- 1) Texas Regional Entity (TRE),
- 2) Florida Reliability Coordinating Council (FRCC),
- 3) Midwest Reliability Organization (MRO),
- 4) Northeast Power Coordinating Council (NPCC),
- 5) ReliabilityFirst Corporation (RFC),
- 6) Southeastern Electric Reliability Council (SERC),
- 7) Southwest Power Pool (SPP), and the
- 8) Western Energy Coordinating Council (WECC).

North American Industry Classification System (NAICS): A set of codes that describes the possible purposes of a facility.

Nuclear electric power: Electricity generated by an electric power plant whose turbines are driven by steam produced by the heat from the fission of nuclear fuel in a reactor.

Other customers: Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, sales for irrigation, and interdepartmental sales.

Other generation: Electricity originating from these sources: manufactured, supplemental gaseous fuel, propane, and waste gases, excluding natural gas; biomass; geothermal; wind; solar thermal; photovoltaic; synthetic fuel; purchased steam; and waste oil energy sources.

Percent change: The relative change in a quantity over a specified time period. It is calculated as follows: the current value has the previous value subtracted from it; this new number is divided by the absolute value of the previous value; then this new number is multiplied by 100.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum coke: See Coke (petroleum).

Photovoltaic energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Plant: A term commonly used either as a synonym for an industrial establishment or a generation facility or to refer to a particular process within an establishment.

Power: The rate at which energy is transferred. Electrical energy is usually measured in watts. Also used for a measurement of capacity.

Power production plant: All the land and land rights, structures and improvements, boiler or reactor vessel equipment, engines and engine-driven generator, turbo generator units, accessory electric equipment, and miscellaneous power plant equipment are grouped together for each individual facility.

Production (electric): Act or process of producing electric energy from other forms of energy; also, the amount of electric energy expressed in watthours (Wh).

Propane: A normally gaseous straight-chain hydrocarbon, (C₃H₈). It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products covered by Gas Processors Association Specifications for commercial propane and HD-5 propane and ASTM Specification D 1835.

Public street and highway lighting service: Includes electricity supplied and services rendered for the purpose of lighting streets, highways, parks and other public places; or for traffic or other signal system service, for municipalities, or other divisions or agencies of State or Federal governments.

Railroad and railway electric service: Electricity supplied to railroads and interurban and street railways, for general railroad use, including the propulsion of cars or locomotives, where such electricity is supplied under separate and distinct rate schedules.

Receipts: Purchases of fuel.

Relative standard error: The standard deviation of a distribution divided by the arithmetic mean, sometimes multiplied by 100. It is used for the purpose of comparing the variabilities of frequency distributions but is sensitive to errors in the means.

Residential: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

Residual fuel oil: A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government

service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Retail: Sales covering electrical energy supplied for residential, commercial, and industrial end-use purposes. Other small classes, such as agriculture and street lighting, also are included in this category.

Revenues: The total amount of money received by a firm from sales of its products and/or services, gains from the sales or exchange of assets, interest and dividends earned on investments, and other increases in the owner's equity except those arising from capital adjustments.

Sales: The transfer of title to an energy commodity from a seller to a buyer for a price or the quantity transferred during a specified period.

Service classifications (sectors): Consumers grouped by similar characteristics in order to be identified for the purpose of setting a common rate for electric service. Usually classified into groups identified as residential, commercial, industrial and other.

Service to public authorities: Public authority service includes electricity supplied and services rendered to municipalities or divisions or agencies of State and Federal governments, under special contracts or agreements or service classifications applicable only to public authorities.

Solar energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or electricity. Electricity produced from solar energy heats a medium that powers an electricity-generating device.

State power authority: A nonprofit utility owned and operated by a state government agency, primarily involved in the generation, marketing, and/or transmission of wholesale electric power.

Steam-electric power plant (conventional): A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Stocks of fuel: A supply of fuel accumulated for future use. This includes coal and fuel oil stocks at the plant site, in coal cars, tanks, or barges at the plant site, or in separate storage sites.

Subbituminous coal: A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Sulfur: A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is

currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

Sulfur content: The amount of sulfur contained in the fuel (except gas) in terms of percent by weight.

Supplemental gaseous fuel supplies: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic fuel: A gaseous, liquid, or solid fuel that does not occur naturally. Synfuels can be made from coal (coal gasification or coal liquefaction), petroleum products, oil shale, tar sands, or plant products. Among the synfuels are various fuel gases, including but not restricted to substitute natural gas, liquid fuels for engines (e.g., gasoline, diesel fuel, and alcohol fuels) and burner fuels (e.g., fuel heating oils).

Terrawatt: One trillion watts.

Terrawatthour: One trillion kilowatthours.

Ton: A unit of weight equal to 2,000 pounds.

Turbine: A machine for generating rotary mechanical power from the energy of a stream of fluid (such as water, steam, or hot gas). Turbines convert the kinetic energy of fluids to mechanical energy through the principles of impulse and reaction, or a mixture of the two.

Ultimate consumer: A consumer that purchases electricity for its own use and not for resale.

Useful thermal output: The thermal energy made available in a combined heat or power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

Waste coal: As a fuel for electric power generation, waste coal includes anthracite refuse or mine waste, waste from anthracite preparation plants, and coal recovered from previously mined sites.

Waste gases: As a fuel for electric power generation, waste gasses are those gasses that are produced from gasses recovered from a solid-waste or wastewater treatment facility, or the gaseous by-products of oil-refining processes.

Waste oil: As a fuel for electric power generation, waste oil includes recycled motor oil, and waste oil from transformers.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A Watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Wind energy: The kinetic energy of wind converted into mechanical energy by wind turbines (i.e., blades rotating from the hub) that drive generators to produce electricity.

Year-to -date: The cumulative sum of each month's value starting with January and ending with the current month of the data.