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U.S. Energy Information Administration

Electric Power Monthly

with Data for December 2016

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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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Table ES1.A. Total Electric Power Industry Summary Statistics, 2016 and 2015

Net Generation and Consumption of Fuels for December															
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	118,790	89,495	32.7%	87,463	68,558	30,591	20,063	45	41	691	832	0	0
Petroleum Liquids	Utility Scale Facilities	1,139	948	20.2%	755	650	309	254	10	7	65	38	0	0
Petroleum Coke	Utility Scale Facilities	871	749	16.3%	667	604	124	67	1	1	79	77	0	0
Natural Gas	Utility Scale Facilities	96,412	109,777	-12.2%	45,796	52,345	42,039	48,676	605	617	7,973	8,137	0	0
Other Gas	Utility Scale Facilities	1,007	1,110	-9.2%	23	1	304	302	0	0	680	806	0	0
Nuclear	Utility Scale Facilities	71,662	69,634	2.9%	37,268	35,997	34,394	33,637	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	22,538	23,166	-2.7%	20,976	21,296	1,434	1,721	NM	4	123	145	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	32,427	28,602	13.4%	4,564	3,675	25,176	22,202	233	265	2,453	2,460	0	0
... Wind	Utility Scale Facilities	22,991	20,098	14.4%	3,810	3,104	19,159	16,976	13	12	8	6	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	2,299	1,570	46.4%	221	98	2,052	1,448	24	24	NM	1	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,584	3,587	-0.1%	311	259	924	995	7	3	2,343	2,331	0	0
... Other Biomass	Utility Scale Facilities	1,932	1,969	-1.9%	126	117	1,517	1,504	189	226	101	122	0	0
... Geothermal	Utility Scale Facilities	1,620	1,377	17.6%	96	97	1,524	1,280	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-753	-281	168.2%	-657	-210	-96	-71	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,144	1,228	-6.9%	24	49	637	607	83	98	400	475	0	0
All Energy Sources	Utility Scale Facilities	345,238	324,427	6.4%	196,879	182,965	134,914	127,458	981	1,033	12,464	12,970	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	1,202	914	31.5%	0	0	0	0	443	349	114	93	644	471
Estimated Total Solar Photovoltaic	All Facilities	3,406	2,358	44.4%	214	96	1,964	1,324	468	373	NM	94	644	471
Estimated Total Solar	All Facilities	3,500	2,484	40.9%	221	98	2,052	1,448	468	373	NM	94	644	471
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	64,883	50,224	29.2%	47,265	37,878	17,356	12,041	15	14	249	292	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,899	1,581	20.1%	1,350	1,177	470	354	13	8	67	42	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	337	276	22.2%	261	232	56	26	0	0	21	18	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	706,376	807,219	-12.5%	342,166	393,358	302,636	351,123	5,512	5,748	56,061	56,990	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,201	1,363	-11.9%	99	95	138	151	57	58	907	1,059	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	225	210	7.4%	2	1	95	90	13	5	115	114	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	95	86	10.3%	0	0	10	10	2	1	84	75	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	83,877	81,369	3.1%	1,194	743	22,761	23,382	4,307	4,021	55,614	53,223	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	66,084	51,587	28.1%	47,364	37,973	17,494	12,192	71	72	1,155	1,350	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,125	1,791	18.6%	1,352	1,178	565	444	26	13	182	155	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	433	362	19.3%	261	232	65	36	2	2	104	93	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	790,252	888,588	-11.1%	343,360	394,101	325,397	374,505	9,820	9,769	111,675	110,212	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	165,569	197,781	-16.3%	131,811	153,226	32,133	42,322	144	233	1,482	2,000	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	32,456	34,829	-6.8%	20,399	21,443	10,409	11,441	325	448	1,324	1,497	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,020	1,727	-40.9%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for December									
	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	December 2016	December 2015	Percentage Change	December 2016	December 2015	Percentage Change	December 2016	December 2015	Percentage Change
Residential	120,840	111,670	8.2%	14,750	13,759	7.2%	12.21	12.32	-0.9%
Commercial	109,548	106,829	2.5%	11,047	10,825	2.1%	10.08	10.13	-0.5%
Industrial	75,124	78,224	-4.0%	4,984	5,043	-1.2%	6.63	6.45	2.8%
Transportation	652	619	5.2%	61	61	0.8%	9.40	9.81	-4.2%
All Sectors	306,163	297,344	3.0%	30,843	29,688	3.9%	10.07	9.98	0.9%

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

Net Generation and Consumption of Fuels for January through December															
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	1,240,089	1,352,398	-8.3%	923,280	998,385	307,143	342,608	436	509	9,231	10,896	0	0
Petroleum Liquids	Utility Scale Facilities	12,674	17,372	-27.0%	8,670	10,386	3,373	6,240	106	183	524	563	0	0
Petroleum Coke	Utility Scale Facilities	11,232	10,877	3.3%	8,881	8,278	1,400	1,601	6	8	945	990	0	0
Natural Gas	Utility Scale Facilities	1,380,293	1,333,482	3.5%	654,475	617,817	625,841	619,839	7,750	7,471	92,227	88,355	0	0
Other Gas	Utility Scale Facilities	13,000	13,117	-0.9%	164	199	3,902	3,517	0	0	8,934	9,401	0	0
Nuclear	Utility Scale Facilities	805,327	797,178	1.0%	424,400	416,680	380,928	380,498	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	265,829	249,080	6.7%	246,649	229,640	17,821	17,996	59	35	1,300	1,410	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	343,228	295,161	16.3%	42,859	37,485	268,902	225,820	3,161	3,220	28,306	28,635	0	0
... Wind	Utility Scale Facilities	226,485	190,719	18.8%	35,019	30,412	191,246	160,135	142	118	78	53	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	36,754	24,893	47.6%	2,271	1,494	33,886	22,962	565	416	32	21	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	40,504	41,929	-3.4%	3,008	3,018	10,418	11,545	71	48	27,007	27,318	0	0
... Other Biomass	Utility Scale Facilities	22,068	21,703	1.7%	1,467	1,473	17,029	16,350	2,382	2,637	1,190	1,243	0	0
... Geothermal	Utility Scale Facilities	17,417	15,918	9.4%	1,093	1,089	16,324	14,829	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-6,686	-5,091	31.3%	-5,629	-4,105	-1,057	-987	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	13,683	14,028	-2.5%	312	558	7,126	6,838	1,076	1,170	5,169	5,462	0	0
All Energy Sources	Utility Scale Facilities	4,078,670	4,077,601	0.0%	2,304,060	2,315,323	1,615,380	1,603,971	12,593	12,595	146,637	145,712	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	19,467	14,139	37.7%	0	0	0	0	7,180	5,689	1,823	1,451	10,465	6,999
Estimated Total Solar Photovoltaic	All Facilities	52,833	35,805	47.6%	2,192	1,388	30,577	19,841	7,745	6,106	1,855	1,472	10,465	6,999
Estimated Total Solar	All Facilities	56,221	39,032	44.0%	2,271	1,494	33,886	22,962	7,745	6,106	1,855	1,472	10,465	6,999
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	677,981	739,594	-8.3%	498,146	539,506	176,311	195,927	148	163	3,376	3,999	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	21,224	28,925	-26.6%	15,667	18,562	4,841	9,473	132	249	584	641	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	4,275	4,044	5.7%	3,431	3,120	600	669	1	2	243	253	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	10,400,195	10,016,576	3.8%	5,045,520	4,745,255	4,642,081	4,576,683	68,639	70,092	643,955	624,545	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	14,244	16,632	-14.4%	1,041	1,032	1,733	1,980	544	635	10,925	12,985	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,534	3,142	-19.4%	19	62	1,014	1,155	126	282	1,374	1,643	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,016	1,144	-11.2%	2	9	105	109	9	16	900	1,010	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	956,922	935,098	2.3%	11,226	8,060	284,704	283,372	47,946	46,287	613,046	597,379	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	692,225	756,226	-8.5%	499,188	540,538	178,044	197,906	692	798	14,302	16,984	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	23,758	32,067	-25.9%	15,687	18,624	5,855	10,629	258	531	1,959	2,283	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	5,291	5,188	2.0%	3,433	3,128	705	779	10	18	1,144	1,263	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	11,357,117	10,951,674	3.7%	5,056,745	4,753,315	4,926,785	4,860,055	116,586	116,380	1,257,001	1,221,924	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through December									
	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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	Percentage Change
Residential	1,407,394	1,404,096	0.2%	176,585	177,624	-0.6%	12.55	12.65	-0.8%
Commercial	1,359,617	1,360,752	-0.1%	140,937	144,781	-2.7%	10.37	10.64	-2.5%
Industrial	936,269	986,508	-5.1%	63,201	68,166	-7.3%	6.75	6.91	-2.3%
Transportation	7,499	7,637	-1.8%	711	771	-7.7%	9.48	10.09	-6.0%
All Sectors	3,710,779	3,758,992	-1.3%	381,435	391,341	-2.5%	10.28	10.41	-1.2%

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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)

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
Coal (1000 tons)	56,315	58,569	39.85	41.43	270	326	638,688	782,929	40.87	42.86
Petroleum Liquids (1000 barrels)	1,308	1,657	W	53.52	177	186	16,610	24,320	56.72	69.79
Petroleum Coke (1000 tons)	355	393	57.94	44.13	9	13	4,166	4,897	46.23	52.11
Natural Gas (1000 Mcf)	706,054	791,698	4.10	2.68	753	741	10,258,745	9,842,581	2.97	3.34

Electric Utilities

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
Coal (1000 tons)	40,148	42,781	41.24	42.64	187	215	473,034	571,707	42.09	43.71
Petroleum Liquids (1000 barrels)	924	1,209	64.58	52.14	114	120	11,943	14,747	56.02	69.13
Petroleum Coke (1000 tons)	284	297	56.17	38.62	7	9	3,538	4,069	42.77	50.44
Natural Gas (1000 Mcf)	335,619	373,572	4.30	3.03	407	396	4,892,960	4,565,040	3.26	3.64

Independent Power Producers

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
Coal (1000 tons)	15,642	14,836	35.67	36.85	66	82	158,742	198,982	36.34	39.39
Petroleum Liquids (1000 barrels)	367	409	W	56.22	53	52	4,369	9,189	58.50	70.36
Petroleum Coke (1000 tons)	55	65	W	W	1	1	492	524	68.91	68.22
Natural Gas (1000 Mcf)	304,102	350,090	3.96	2.29	296	287	4,628,280	4,530,195	2.63	3.04

Commercial Sector

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
Coal (1000 tons)	9	8	W	W	1	1	57	109	W	W
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	549	507	W	W	3	3	7,766	6,371	W	W

Industrial Sector

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
Coal (1000 tons)	516	944	W	W	16	28	6,856	12,132	W	W
Petroleum Liquids (1000 barrels)	17	38	63.57	72.24	10	14	299	385	59.50	82.47
Petroleum Coke (1000 tons)	16	30	W	W	1	3	135	304	W	W
Natural Gas (1000 Mcf)	65,784	67,528	W	W	47	55	729,741	740,975	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.
Natural Gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.

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			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
Coal	1,079,534	1,124,253	2.08	2.16	270	326	12,335,055	15,086,208	2.12	2.22
Petroleum Liquids	7,849	10,037	W	8.83	177	186	100,602	147,647	9.36	11.49
Petroleum Coke	9,944	11,037	2.07	1.57	9	13	116,935	138,668	1.65	1.84
Natural Gas	730,273	818,600	3.96	2.59	753	741	10,606,036	10,173,502	2.88	3.23
Fossil Fuels	1,827,600	1,963,928	W	2.36	928	953	23,158,628	25,546,026	2.47	2.65

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
Coal	776,790	825,539	2.13	2.21	187	215	9,203,169	11,088,631	2.16	2.25
Petroleum Liquids	5,562	7,402	10.73	8.52	114	120	73,050	90,041	9.16	11.32
Petroleum Coke	8,017	8,492	1.99	1.35	7	9	99,706	115,929	1.52	1.77
Natural Gas	347,451	386,119	4.15	2.93	407	396	5,060,046	4,717,748	3.15	3.52
Fossil Fuels	1,137,820	1,227,551	2.79	2.47	526	534	14,435,971	16,012,348	2.54	2.67

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
Coal	291,318	278,119	1.92	1.96	66	82	2,979,092	3,731,508	1.94	2.10
Petroleum Liquids	2,183	2,401	W	9.61	53	52	25,734	55,248	9.92	11.69
Petroleum Coke	1,500	1,742	W	W	1	1	13,566	14,550	2.50	2.45
Natural Gas	314,419	362,309	3.83	2.21	296	287	4,785,209	4,683,291	2.55	2.94
Fossil Fuels	609,420	644,570	W	W	351	356	7,803,601	8,484,597	W	W

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
Coal	214	188	W	W	1	1	1,288	2,439	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	568	524	W	W	3	3	8,005	6,499	W	W
Fossil Fuels	781	712	W	W	3	3	9,293	8,938	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
Coal	11,213	20,408	W	W	16	28	151,507	263,630	W	W
Petroleum Liquids	103	234	10.53	11.75	10	14	1,817	2,359	9.79	13.45
Petroleum Coke	427	804	W	W	1	3	3,664	8,189	W	W
Natural Gas	67,835	69,647	W	W	47	55	752,775	765,964	W	W
Fossil Fuels	79,579	91,094	W	W	48	60	909,763	1,040,142	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. Net Generation by Energy Source: Total (All Sectors), 2006-December 2016
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small 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 Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
Annual Totals															
2006	1,990,511	44,460	19,706	816,441	14,177	787,219	289,246	508	96,018	-6,558	12,974	4,064,702	N/A	N/A	N/A
2007	2,016,456	49,505	16,234	896,590	13,453	806,425	247,510	612	104,626	-6,896	12,231	4,156,745	N/A	N/A	N/A
2008	1,985,801	31,917	14,325	882,981	11,707	806,208	254,831	864	125,237	-6,288	11,804	4,119,388	N/A	N/A	N/A
2009	1,755,904	25,972	12,964	920,979	10,632	798,855	273,445	891	143,388	-4,627	11,928	3,950,331	N/A	N/A	N/A
2010	1,847,290	23,337	13,724	987,697	11,313	806,968	260,203	1,212	165,961	-5,501	12,855	4,125,060	N/A	N/A	N/A
2011	1,733,430	16,086	14,096	1,013,689	11,566	790,204	319,355	1,818	192,163	-6,421	14,154	4,100,141	N/A	N/A	N/A
2012	1,514,043	13,403	9,787	1,225,894	11,898	769,331	276,240	4,327	214,006	-4,950	13,787	4,047,765	N/A	N/A	N/A
2013	1,581,115	13,820	13,344	1,124,836	12,853	789,016	268,565	9,036	244,472	-4,681	13,588	4,065,964	N/A	N/A	N/A
2014	1,581,710	18,276	11,955	1,126,609	12,022	797,166	259,367	17,691	261,522	-6,174	13,461	4,093,606	11,233	26,482	28,924
2015	1,352,398	17,372	10,877	1,333,482	13,117	797,178	249,080	24,893	270,268	-5,091	14,028	4,077,601	14,139	35,805	39,032
2016	1,240,089	12,674	11,232	1,380,293	13,000	805,327	265,829	36,754	306,474	-6,686	13,683	4,078,670	19,467	52,833	56,221
Year 2014															
January	157,097	5,913	1,158	91,061	933	73,163	21,634	751	24,742	-290	1,092	377,255	624	1,321	1,375
February	143,294	1,847	916	75,942	817	62,639	17,396	835	20,166	-445	941	324,348	664	1,416	1,499
March	136,443	2,002	1,186	78,151	866	62,397	24,257	1,317	24,534	-421	1,093	331,823	907	2,042	2,224
April	109,281	911	842	76,782	854	56,385	25,440	1,487	24,989	-378	1,039	297,631	988	2,249	2,476
May	118,786	960	1,084	89,120	944	62,947	26,544	1,750	22,073	-601	1,118	324,724	1,092	2,549	2,842
June	137,577	889	1,131	98,468	969	68,138	25,744	1,923	22,541	-653	1,117	357,844	1,101	2,678	3,024
July	149,627	992	1,050	115,081	1,069	71,940	24,357	1,788	19,256	-545	1,163	385,780	1,149	2,674	2,936
August	148,452	1,014	1,036	122,348	1,135	71,129	19,807	1,879	17,141	-840	1,239	384,341	1,139	2,757	3,019
Sept	126,110	929	1,019	106,582	1,126	67,535	16,074	1,832	18,061	-542	1,159	339,887	1,046	2,621	2,879
October	111,296	908	609	97,683	1,082	62,391	17,159	1,717	21,002	-448	1,122	314,522	965	2,448	2,682
November	119,127	963	775	84,354	1,073	65,140	18,625	1,380	25,428	-531	1,161	317,495	792	2,024	2,171
December	124,620	947	1,149	91,038	1,153	73,363	22,329	1,032	21,590	-480	1,218	337,957	766	1,703	1,798
Year 2015															
January	132,451	1,927	1,046	101,687	1,246	74,270	24,138	1,155	21,966	-551	1,120	360,455	746	1,838	1,902
February	126,977	5,221	1,100	91,315	1,025	63,461	22,286	1,484	21,078	-456	985	334,476	816	2,138	2,299
March	108,488	1,061	717	99,423	1,091	64,547	24,281	2,072	21,871	-409	1,051	324,192	1,134	2,920	3,206
April	88,989	919	809	92,806	979	59,784	22,471	2,379	24,115	-214	1,096	294,133	1,264	3,271	3,643
May	104,585	1,017	922	101,516	1,099	65,827	20,125	2,504	23,678	-370	1,185	322,087	1,394	3,553	3,898
June	125,673	1,040	821	121,478	1,118	68,516	20,414	2,558	20,003	-398	1,187	362,409	1,408	3,586	3,966
July	139,100	1,201	1,103	141,119	1,235	71,412	21,014	2,627	20,827	-513	1,293	400,419	1,487	3,734	4,114
August	134,670	1,093	1,040	139,084	1,196	72,415	19,122	2,688	20,134	-626	1,300	392,116	1,468	3,763	4,156
Sept	117,986	1,006	1,028	123,036	1,210	66,476	16,094	2,217	20,430	-544	1,182	350,122	1,330	3,238	3,547
October	96,759	945	827	110,005	906	60,571	16,630	1,910	22,798	-443	1,204	312,112	1,198	2,897	3,107
November	87,227	995	715	102,236	902	60,264	19,338	1,730	26,335	-285	1,197	300,653	982	2,507	2,712
December	89,495	948	749	109,777	1,110	69,634	23,166	1,570	27,032	-281	1,228	324,427	914	2,358	2,484
Year 2016															
January	113,551	1,343	953	109,787	1,263	72,525	25,426	1,516	25,549	-312	1,144	352,745	1,021	2,450	2,536
February	92,719	1,236	904	98,190	1,169	65,638	24,150	2,443	26,682	-399	1,017	313,749	1,189	3,391	3,632
March	72,138	820	945	103,790	1,241	66,149	27,025	2,713	28,417	-384	1,099	303,952	1,582	4,038	4,295
April	72,002	794	1,037	99,561	1,149	62,365	25,475	2,949	26,638	-452	1,123	292,643	1,763	4,439	4,712
May	81,728	950	974	110,901	977	66,576	25,362	3,603	25,374	-321	1,211	317,337	1,945	5,160	5,548
June	116,227	936	1,009	131,883	1,085	67,175	22,902	3,610	22,925	-497	1,164	368,418	1,991	5,190	5,601
July	136,504	1,261	1,057	151,860	1,066	70,349	21,247	4,097	24,581	-784	1,212	412,450	2,066	5,691	6,163
August	135,811	1,275	1,085	155,117	1,102	71,526	19,359	3,948	20,562	-902	1,231	410,113	2,004	5,584	5,952
Sept	114,282	920	1,004	125,639	1,050	65,448	16,281	3,683	23,013	-715	1,164	351,769	1,790	5,109	5,473
October	99,338	941	611	102,625	891	60,733	17,249	3,193	26,726	-561	1,083	312,828	1,607	4,552	4,801
November	87,000	1,058	781	94,529	1,001	65,179	18,815	2,700	25,879	-607	1,092	297,427	1,307	3,823	4,007
December	118,790	1,139	871	96,412	1,007	71,662	22,538	2,299	30,128	-753	1,144	345,238	1,202	3,406	3,500
Year to Date															
2014	1,581,710	18,276	11,955	1,126,609	12,022	797,166	259,367	17,691	261,522	-6,174	13,461	4,093,606	11,233	26,482	28,924
2015	1,352,398	17,372	10,877	1,333,482	13,117	797,178	249,080	24,893	270,268	-5,091	14,028	4,077,601	14,139	35,805	39,032
2016	1,240,089	12,674	11,232	1,380,293	13,000	805,327	265,829	36,754	306,474	-6,686	13,683	4,078,670	19,467	52,833	56,221
Rolling 12 Months Ending in December															
2015	1,352,398	17,372	10,877	1,333,482	13,117	797,178	249,080	24,893	270,268	-5,091	14,028	4,077,601	14,139	35,805	39,032
2016	1,240,089	12,674	11,232	1,380,293	13,000	805,327	265,829	36,754	306,474	-6,686	13,683	4,078,670	19,467	52,833	56,221

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.
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 2015 and prior years are final. Values for 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 small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

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

	Generation at Utility Scale Facilities										Small Scale Generation	Generation From Utility and Small Scale Facilities	
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 Solar Photovoltaic	Estimated Total Solar	Estimated Total Solar
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	11,233	26,482	28,924
2015	190,719	21,666	3,227	41,929	11,291	7,211	3,201	15,918	249,080	544,241	14,139	35,805	39,032
2016	226,485	33,367	3,388	40,504	11,562	7,375	3,131	17,417	265,829	609,057	19,467	52,833	56,221
Year 2014													
January	17,911	697	54	3,626	967	584	299	1,355	21,634	47,127	624	1,321	1,375
February	14,009	752	83	3,265	930	490	267	1,206	17,396	38,397	664	1,416	1,499
March	17,736	1,135	182	3,609	961	599	291	1,338	24,257	50,108	907	2,042	2,224
April	18,636	1,261	226	3,230	957	586	267	1,314	25,440	51,916	988	2,249	2,476
May	15,601	1,457	292	3,290	944	635	270	1,332	26,544	50,366	1,092	2,549	2,842
June	15,799	1,578	345	3,622	943	613	271	1,293	25,744	50,208	1,101	2,678	3,024
July	12,187	1,525	262	3,807	1,035	646	261	1,320	24,357	45,402	1,149	2,674	2,936
August	10,171	1,618	261	3,761	988	647	245	1,329	19,807	38,828	1,139	2,757	3,019
Sept	11,520	1,574	258	3,462	932	606	234	1,308	16,074	35,968	1,046	2,621	2,879
October	14,508	1,484	233	3,422	854	603	269	1,345	17,159	39,878	965	2,448	2,682
November	18,867	1,232	148	3,508	820	612	258	1,362	18,625	45,432	792	2,024	2,171
December	14,711	936	95	3,737	890	609	268	1,375	22,329	44,950	766	1,703	1,798
Year 2015													
January	15,162	1,092	63	3,717	885	582	258	1,362	24,138	47,259	746	1,838	1,902
February	14,922	1,322	161	3,372	792	503	230	1,260	22,286	44,847	816	2,138	2,299
March	15,308	1,786	286	3,457	914	543	255	1,394	24,281	48,224	1,134	2,920	3,206
April	17,867	2,008	372	3,246	915	571	243	1,272	22,471	48,965	1,264	3,271	3,643
May	17,151	2,160	345	3,338	951	609	238	1,390	20,125	46,308	1,394	3,553	3,898
June	13,421	2,178	380	3,496	926	607	251	1,302	20,414	42,975	1,408	3,586	3,966
July	13,675	2,247	380	3,806	1,035	661	293	1,357	21,014	44,469	1,487	3,734	4,114
August	13,080	2,295	392	3,788	982	651	288	1,344	19,122	41,943	1,468	3,763	4,156
Sept	13,972	1,908	309	3,450	931	607	268	1,203	16,094	38,742	1,330	3,238	3,547
October	16,380	1,700	210	3,252	938	617	289	1,323	16,630	41,338	1,198	2,897	3,107
November	19,682	1,525	204	3,418	993	620	290	1,334	19,338	47,403	982	2,507	2,712
December	20,098	1,444	126	3,587	1,029	642	299	1,377	23,166	51,767	914	2,358	2,484
Year 2016													
January	18,531	1,430	86	3,615	1,007	628	295	1,471	25,426	52,491	1,021	2,450	2,536
February	20,204	2,202	241	3,394	892	547	274	1,372	24,150	53,275	1,189	3,391	3,632
March	21,766	2,456	257	3,381	938	588	285	1,460	27,025	58,155	1,582	4,038	4,295
April	20,571	2,676	273	2,909	937	602	280	1,340	25,475	55,063	1,763	4,439	4,712
May	18,795	3,215	388	3,173	1,002	661	267	1,476	25,362	54,340	1,945	5,160	5,548
June	16,318	3,198	412	3,414	976	620	234	1,364	22,902	49,437	1,991	5,190	5,601
July	17,595	3,625	471	3,652	1,007	642	261	1,424	21,247	49,925	2,066	5,691	6,163
August	13,561	3,581	368	3,650	1,005	645	257	1,444	19,359	43,869	2,004	5,584	5,952
Sept	16,430	3,319	363	3,369	942	600	221	1,451	16,281	42,977	1,790	5,109	5,473
October	20,380	2,945	249	3,105	916	592	244	1,489	17,249	47,168	1,607	4,552	4,801
November	19,342	2,516	184	3,257	924	600	249	1,507	18,815	47,394	1,307	3,823	4,007
December	22,991	2,204	95	3,584	1,018	652	263	1,620	22,538	54,965	1,202	3,406	3,500
Year to Date													
2014	181,655	15,250	2,441	42,340	11,220	7,228	3,202	15,877	259,367	538,579	11,233	26,482	28,924
2015	190,719	21,666	3,227	41,929	11,291	7,211	3,201	15,918	249,080	544,241	14,139	35,805	39,032
2016	226,485	33,367	3,388	40,504	11,562	7,375	3,131	17,417	265,829	609,057	19,467	52,833	56,221
Rolling 12 Months Ending in December													
2015	190,719	21,666	3,227	41,929	11,291	7,211	3,201	15,918	249,080	544,241	14,139	35,805	39,032
2016	226,485	33,367	3,388	40,504	11,562	7,375	3,131	17,417	265,829	609,057	19,467	52,833	56,221

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 2015 and prior years are final. Values for 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 small scale solar photovoltaic generation and small scale 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-December 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	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	998,385	10,386	8,278	617,817	199	416,680	229,640	1,494	35,992	-4,105	558	2,315,323
2016	923,280	8,670	8,881	654,475	164	424,400	246,649	2,271	40,588	-5,629	312	2,304,060
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	94,835	1,147	813	46,573	26	39,377	22,523	68	3,130	-460	41	208,073
February	90,828	2,014	879	43,951	24	33,478	21,075	87	2,877	-387	45	194,871
March	78,606	696	502	45,972	21	33,328	22,523	126	3,123	-319	31	184,609
April	66,628	695	565	43,065	20	31,053	20,156	145	3,157	-153	47	165,379
May	79,341	701	691	46,882	20	35,089	18,481	156	3,043	-292	54	184,165
June	93,799	765	604	57,292	17	35,150	18,429	153	2,311	-300	50	208,270
July	104,128	834	898	64,971	15	37,055	19,004	155	2,514	-413	49	229,212
August	100,129	794	827	63,376	21	38,482	17,813	159	2,554	-513	53	223,696
Sept	85,932	690	797	56,266	20	35,034	15,062	130	2,771	-477	49	196,273
October	71,408	682	610	49,533	12	31,886	15,378	114	3,261	-364	42	172,561
November	64,191	718	490	47,590	1	30,751	17,901	103	3,673	-218	48	165,247
December	68,558	650	604	52,345	1	35,997	21,296	98	3,577	-210	49	182,965
Year 2016												
January	84,064	926	832	52,497	NM	37,974	23,185	101	3,317	-230	27	202,696
February	69,803	779	734	47,642	4	34,281	21,931	158	3,625	-332	26	178,652
March	56,900	584	724	49,808	6	34,445	24,916	173	3,693	-291	34	170,992
April	53,458	568	858	46,627	8	34,036	23,633	186	3,891	-367	28	162,925
May	62,122	654	763	52,960	NM	36,531	23,512	214	3,104	-257	27	179,641
June	86,713	687	793	64,043	17	37,000	21,477	223	3,034	-409	28	213,606
July	101,023	903	833	72,500	23	37,919	19,901	235	2,836	-678	23	235,520
August	100,319	888	856	72,932	15	37,927	18,054	227	2,429	-787	22	232,883
Sept	83,380	620	807	58,470	24	33,919	15,222	207	3,212	-626	22	195,258
October	73,089	633	418	47,523	6	30,016	16,101	179	3,472	-471	25	170,992
November	64,946	673	596	43,678	22	33,082	17,741	147	3,631	-522	24	164,018
December	87,463	755	667	45,796	23	37,268	20,976	221	4,343	-657	24	196,879
Year to Date												
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	998,385	10,386	8,278	617,817	199	416,680	229,640	1,494	35,992	-4,105	558	2,315,323
2016	923,280	8,670	8,881	654,475	164	424,400	246,649	2,271	40,588	-5,629	312	2,304,060
Rolling 12 Months Ending in December												
2015	998,385	10,386	8,278	617,817	199	416,680	229,640	1,494	35,992	-4,105	558	2,315,323
2016	923,280	8,670	8,881	654,475	NM	424,400	246,649	2,271	40,588	-5,629	312	2,304,060

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.
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 2015 and prior years are final. Values for 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.

Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2006-December 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	342,608	6,240	1,601	619,839	3,517	380,498	17,996	22,962	202,858	-987	6,838	1,603,971
2016	307,143	3,373	1,400	625,841	3,902	380,928	17,821	33,886	235,017	-1,057	7,126	1,615,380
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	36,595	701	128	46,877	368	34,893	1,491	1,066	16,096	-92	560	138,685
February	35,196	3,049	132	40,256	305	29,984	1,104	1,372	15,785	-69	489	127,602
March	28,865	306	141	46,138	306	31,218	1,625	1,911	16,184	-90	527	127,131
April	21,519	170	140	42,762	269	28,732	2,175	2,193	18,393	-62	528	116,818
May	24,330	257	144	47,242	318	30,737	1,515	2,300	18,059	-78	561	125,387
June	30,878	215	138	56,098	282	33,366	1,867	2,359	15,117	-98	574	140,797
July	33,932	314	140	67,295	295	34,357	1,892	2,425	15,512	-101	617	156,677
August	33,522	250	142	66,938	311	33,933	1,216	2,481	14,856	-113	624	154,160
Sept	31,074	273	140	58,525	311	31,442	954	2,047	15,075	-67	571	140,345
October	24,463	216	149	52,489	216	28,685	1,135	1,762	16,981	-79	589	126,607
November	22,171	235	140	46,542	233	29,513	1,301	1,599	20,046	-67	591	122,304
December	20,063	254	67	48,676	302	33,637	1,721	1,448	20,754	-71	607	127,458
Year 2016												
January	28,568	364	42	48,897	367	34,551	2,100	1,391	19,506	-82	605	136,308
February	22,053	401	99	42,799	336	31,357	2,082	2,237	20,553	-66	543	122,395
March	14,354	204	138	45,835	367	31,704	1,956	2,491	22,120	-93	556	119,633
April	17,802	193	97	45,070	321	28,329	1,706	2,717	20,359	-84	575	117,085
May	18,845	238	124	49,738	284	30,046	1,714	3,332	19,730	-64	636	124,623
June	28,662	207	131	59,424	347	30,175	1,314	3,322	17,327	-88	609	141,430
July	34,566	300	136	70,502	322	32,430	1,238	3,789	19,049	-106	618	162,843
August	34,589	324	140	73,267	331	33,599	1,213	3,659	15,487	-115	627	163,120
Sept	30,149	259	113	58,800	344	31,529	995	3,417	17,316	-89	579	143,412
October	25,544	236	141	46,992	239	30,717	1,065	2,966	20,773	-90	565	129,150
November	21,420	338	116	42,479	338	32,097	1,003	2,512	19,672	-85	576	120,466
December	30,591	309	124	42,039	304	34,394	1,434	2,052	23,124	-96	637	134,914
Year to Date												
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	342,608	6,240	1,601	619,839	3,517	380,498	17,996	22,962	202,858	-987	6,838	1,603,971
2016	307,143	3,373	1,400	625,841	3,902	380,928	17,821	33,886	235,017	-1,057	7,126	1,615,380
Rolling 12 Months Ending in December												
2015	342,608	6,240	1,601	619,839	3,517	380,498	17,996	22,962	202,858	-987	6,838	1,603,971
2016	307,143	3,373	1,400	625,841	3,902	380,928	17,821	33,886	235,017	-1,057	7,126	1,615,380

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.
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 2015 and prior years are final. Values for 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.
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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 1.2.C. Net Generation by Energy Source: Commercial Sector, 2006-December 2016
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small 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 Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
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	5,146	5,516	5,516
2015	509	183	8	7,471	0	0	35	416	2,803	0	1,170	12,595	5,689	6,106	6,106
2016	436	106	6	7,750	0	0	59	565	2,596	0	1,076	12,593	7,180	7,745	7,745
Year 2014															
January	76	102	1	651	0	0	4	16	264	0	104	1,218	300	316	316
February	79	37	1	533	0	0	3	20	216	0	71	961	322	342	342
March	66	30	1	529	0	0	4	29	230	0	84	972	432	461	461
April	47	9	1	509	0	0	4	33	229	0	96	927	467	499	499
May	39	8	0	557	0	0	4	38	238	0	102	986	512	550	550
June	42	8	0	605	0	0	3	39	245	0	99	1,041	510	549	549
July	50	9	0	701	0	0	3	38	263	0	109	1,173	529	567	567
August	42	7	1	722	0	0	3	39	256	0	110	1,181	520	559	559
Sept	36	8	1	657	0	0	3	35	243	0	104	1,086	469	504	504
October	31	9	1	601	0	0	2	36	230	0	97	1,008	419	455	455
November	44	9	1	560	0	0	2	28	218	0	98	960	338	366	366
December	45	10	1	602	0	0	2	20	230	0	97	1,007	329	349	349
Year 2015															
January	56	22	1	564	0	0	3	20	225	0	88	981	327	347	347
February	59	72	1	499	0	0	3	23	198	0	77	932	356	379	379
March	52	11	1	560	0	0	3	33	227	0	91	977	479	512	512
April	38	8	1	513	0	0	3	39	231	0	98	931	525	564	564
May	32	10	0	583	0	0	3	46	237	0	101	1,013	574	619	619
June	45	10	0	662	0	0	4	43	232	0	102	1,098	571	614	614
July	44	12	0	769	0	0	3	45	256	0	108	1,238	596	641	641
August	39	12	1	760	0	0	2	46	243	0	104	1,206	575	621	621
Sept	33	7	1	716	0	0	2	37	242	0	106	1,145	515	553	553
October	34	6	1	643	0	0	3	32	234	0	95	1,049	455	488	488
November	35	6	1	583	0	0	3	27	236	0	102	992	367	394	394
December	41	7	1	617	0	0	4	24	242	0	98	1,033	349	373	373
Year 2016															
January	43	11	1	648	0	0	NM	23	235	0	91	1,057	409	432	432
February	47	13	1	550	0	0	NM	45	207	0	76	944	468	512	512
March	44	NM	1	595	0	0	NM	47	247	0	98	1,043	608	655	655
April	29	8	0	615	0	0	NM	44	223	0	97	1,022	661	705	705
May	26	8	0	650	0	0	NM	54	216	0	95	1,055	719	773	773
June	28	6	0	694	0	0	NM	62	201	0	82	1,079	723	785	785
July	30	9	1	763	0	0	NM	69	229	0	97	1,204	743	812	812
August	33	14	0	781	0	0	NM	59	224	0	96	1,212	718	777	777
Sept	34	7	0	675	0	0	NM	56	200	0	89	1,065	643	699	699
October	36	8	0	583	0	0	NM	45	207	0	87	969	578	623	623
November	39	NM	0	591	0	0	NM	38	197	0	84	961	467	505	505
December	45	10	1	605	0	0	NM	24	209	0	83	981	443	468	468
Year to Date															
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	5,146	5,516	5,516
2015	509	183	8	7,471	0	0	35	416	2,803	0	1,170	12,595	5,689	6,106	6,106
2016	436	106	6	7,750	0	0	59	565	2,596	0	1,076	12,593	7,180	7,745	7,745
Rolling 12 Months Ending in December															
2015	509	183	8	7,471	0	0	35	416	2,803	0	1,170	12,595	5,689	6,106	6,106
2016	436	NM	6	7,750	0	0	NM	565	2,596	0	1,076	12,593	7,180	7,745	7,745

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.
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 2015 and prior years are final. Values for 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 small scale solar photovoltaic generation and small scale 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-December 2016
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Small Scale Generation	Net Generation From Utility and Small 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 Generation at Utility Scale Facilities	Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total Solar
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	1,139	1,156	1,156
2015	10,896	563	990	88,355	9,401	0	1,410	21	28,614	0	5,462	145,712	1,451	1,472	1,472
2016	9,231	524	945	92,227	8,934	0	1,300	32	28,274	0	5,169	146,637	1,823	1,855	1,855
Year 2014															
January	1,105	85	100	7,441	667	0	120	1	2,466	0	408	12,391	62	62	62
February	998	61	86	6,680	606	0	104	1	2,212	0	363	11,112	65	66	66
March	1,087	56	103	7,105	651	0	114	1	2,439	0	382	11,937	93	94	94
April	955	32	128	6,690	624	0	127	2	2,319	0	375	11,251	101	103	103
May	1,009	40	126	6,918	662	0	130	2	2,385	0	397	11,667	111	113	113
June	1,065	37	130	6,960	711	0	100	2	2,409	0	400	11,814	113	114	114
July	1,105	37	129	7,685	786	0	89	2	2,549	0	408	12,790	117	119	119
August	1,081	35	134	7,716	820	0	96	2	2,496	0	476	12,856	116	118	118
Sept	1,013	39	123	7,234	828	0	86	2	2,275	0	444	12,044	106	107	107
October	942	39	101	7,028	748	0	93	1	2,303	0	411	11,667	100	102	102
November	966	42	108	7,083	772	0	99	1	2,297	0	429	11,797	81	82	82
December	1,015	42	121	7,670	790	0	125	1	2,510	0	484	12,757	74	75	75
Year 2015															
January	964	57	103	7,674	852	0	121	1	2,514	0	430	12,717	80	80	80
February	894	86	88	6,609	696	0	105	1	2,217	0	374	11,071	85	86	86
March	965	49	74	6,753	764	0	130	2	2,337	0	402	11,475	119	121	121
April	804	45	104	6,465	690	0	138	2	2,335	0	423	11,005	129	132	132
May	881	48	87	6,809	761	0	127	2	2,339	0	469	11,522	144	146	146
June	951	49	78	7,426	819	0	114	2	2,343	0	462	12,244	144	146	146
July	995	41	66	8,084	925	0	115	2	2,545	0	518	13,292	150	152	152
August	980	37	70	8,010	864	0	90	2	2,480	0	519	13,054	147	149	149
Sept	947	37	91	7,528	879	0	77	2	2,342	0	456	12,359	135	137	137
October	853	40	67	7,340	678	0	114	2	2,322	0	478	11,894	125	126	126
November	830	36	85	7,521	668	0	133	1	2,380	0	456	12,110	100	102	102
December	832	38	77	8,137	806	0	145	1	2,459	0	475	12,970	93	94	94
Year 2016															
January	876	43	79	7,746	893	0	136	NM	2,491	0	420	12,684	98	NM	NM
February	817	43	70	7,198	828	0	131	3	2,296	0	372	11,758	108	111	111
March	839	27	82	7,551	868	0	147	NM	2,357	0	412	12,284	150	NM	NM
April	713	25	81	7,250	819	0	131	NM	2,165	0	424	11,611	164	NM	NM
May	736	50	88	7,554	681	0	130	NM	2,324	0	453	12,018	181	NM	NM
June	824	36	86	7,723	720	0	105	NM	2,362	0	444	12,303	183	NM	NM
July	884	49	87	8,095	721	0	101	NM	2,467	0	474	12,883	190	NM	NM
August	870	49	88	8,137	756	0	87	NM	2,422	0	486	12,898	186	NM	NM
Sept	718	35	84	7,695	681	0	60	3	2,285	0	473	12,034	170	173	173
October	669	64	NM	7,526	646	0	80	3	2,274	0	406	11,718	156	158	158
November	595	40	69	7,781	641	0	68	2	2,379	0	407	11,982	123	125	125
December	691	65	79	7,973	680	0	123	NM	2,452	0	400	12,464	114	NM	NM
Year to Date															
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	1,139	1,156	1,156
2015	10,896	563	990	88,355	9,401	0	1,410	21	28,614	0	5,462	145,712	1,451	1,472	1,472
2016	9,231	524	945	92,227	8,934	0	1,300	32	28,274	0	5,169	146,637	1,823	1,855	1,855
Rolling 12 Months Ending in December															
2015	10,896	563	990	88,355	9,401	0	1,410	21	28,614	0	5,462	145,712	1,451	1,472	1,472
2016	9,231	524	NM	92,227	8,934	0	1,300	NM	28,274	0	5,169	146,637	1,823	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.
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 2015 and prior years are final. Values for 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-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 small scale solar photovoltaic generation and small scale 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-December 2016
(Thousand Megawatthours)

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,465
Year 2014	
January	263
February	277
March	382
April	421
May	468
June	478
July	502
August	503
Sept	472
October	445
November	373
December	363
Year 2015	
January	340
February	375
March	536
April	609
May	676
June	693
July	741
August	746
Sept	679
October	618
November	515
December	471
Year 2016	
January	513
February	614
March	824
April	939
May	1,044
June	1,086
July	1,133
August	1,100
Sept	977
October	874
November	717
December	644
Year to Date	
2014	4,947
2015	6,999
2016	10,465
Rolling 12 Months Ending in December	
2015	6,999
2016	10,465

See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 are preliminary.
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:
Estimated small scale solar photovoltaic generation and small scale 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, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	8,869	8,859	0.1%	304	234	8,226	8,286	101	95	238	244
Connecticut	3,186	3,381	-5.8%	NM	6	3,121	3,294	NM	37	NM	44
Maine	904	979	-7.7%	NM	0	699	777	17	17	188	185
Massachusetts	2,501	2,194	14.0%	26	51	2,415	2,098	45	32	NM	13
New Hampshire	1,698	1,659	2.3%	207	84	1,484	1,569	NM	4	NM	2
Rhode Island	432	436	-0.8%	1	0	425	431	NM	NM	0	0
Vermont	149	211	-29.3%	67	93	82	118	NM	0	0	0
Middle Atlantic	36,521	33,979	7.5%	2,621	2,905	33,387	30,503	166	189	347	381
New Jersey	6,331	6,290	0.7%	-5	0	6,243	6,184	50	50	43	55
New York	10,770	10,748	0.2%	2,622	2,898	7,962	7,658	103	105	82	87
Pennsylvania	19,421	16,941	14.6%	NM	6	19,182	16,661	NM	34	221	239
East North Central	51,891	46,455	11.7%	21,281	19,541	29,682	25,903	144	170	784	841
Illinois	17,078	15,735	8.5%	426	342	16,411	15,085	34	46	207	262
Indiana	9,591	7,684	24.8%	8,240	6,019	1,099	1,389	20	20	232	255
Michigan	8,864	9,256	-4.2%	6,085	6,600	2,574	2,462	68	80	137	114
Ohio	11,088	8,165	35.8%	2,545	2,152	8,471	5,933	NM	14	63	66
Wisconsin	5,268	5,615	-6.2%	3,985	4,428	1,126	1,034	12	10	146	144
West North Central	30,538	26,997	13.1%	24,803	22,534	5,324	4,067	57	49	353	347
Iowa	5,535	4,605	20.2%	3,990	3,261	1,342	1,156	22	20	181	168
Kansas	4,510	3,712	21.5%	3,336	2,552	1,173	1,158	0	0	NM	2
Minnesota	5,754	5,113	12.5%	4,415	4,170	1,195	803	19	18	125	123
Missouri	6,745	6,388	5.6%	6,466	6,122	260	252	15	10	NM	4
Nebraska	3,449	3,415	1.0%	2,905	3,081	513	295	NM	1	30	37
North Dakota	3,616	3,024	19.6%	2,999	2,716	605	294	NM	0	NM	14
South Dakota	930	741	25.6%	693	631	238	109	NM	0	0	0
South Atlantic	65,822	61,222	7.5%	56,373	51,642	7,748	7,760	102	109	1,600	1,711
Delaware	410	431	-4.9%	NM	3	311	304	NM	1	95	124
District of Columbia	NM	7	NM	0	0	0	5	NM	2	0	0
Florida	17,875	18,327	-2.5%	16,737	16,969	685	875	NM	7	447	477
Georgia	10,444	9,692	7.8%	9,323	8,187	681	1,049	NM	1	439	455
Maryland	2,768	2,297	20.5%	2	1	2,704	2,243	NM	32	25	22
North Carolina	10,833	9,702	11.7%	9,940	8,868	716	633	19	27	158	174
South Carolina	8,147	7,531	8.2%	7,928	7,161	89	224	NM	1	129	146
Virginia	7,914	7,510	5.4%	6,687	5,941	984	1,301	34	40	210	228
West Virginia	7,427	5,725	29.7%	5,754	4,514	1,577	1,126	0	0	96	85
East South Central	30,386	28,725	5.8%	26,217	24,000	3,408	3,949	NM	14	750	762
Alabama	11,821	12,523	-5.6%	8,511	8,704	2,948	3,447	0	0	362	372
Kentucky	7,204	6,065	18.8%	7,129	6,016	27	1	0	0	47	47
Mississippi	4,330	4,882	-11.3%	3,755	4,248	416	483	NM	1	159	151
Tennessee	7,030	5,255	33.8%	6,821	5,032	16	17	NM	13	182	192
West South Central	56,400	53,827	4.8%	19,040	18,026	30,639	28,886	68	74	6,653	6,841
Arkansas	5,186	3,830	35.4%	3,881	2,926	1,146	757	NM	0	159	145
Louisiana	8,479	8,935	-5.1%	4,916	5,088	866	948	NM	16	2,683	2,884
Oklahoma	6,311	6,433	-1.9%	3,704	3,978	2,548	2,374	NM	0	59	81
Texas	36,424	34,630	5.2%	6,540	6,034	26,078	24,807	54	57	3,752	3,731
Mountain	31,529	32,136	-1.9%	25,106	25,586	6,121	6,230	42	46	259	274
Arizona	8,154	8,896	-8.3%	7,407	7,821	735	1,065	12	10	0	0
Colorado	4,932	5,002	-1.4%	3,842	3,930	1,083	1,064	NM	2	NM	6
Idaho	1,264	1,265	-0.1%	736	696	474	510	NM	4	54	55
Montana	2,805	2,599	7.9%	1,211	965	1,591	1,631	0	0	NM	2
Nevada	2,966	3,379	-12.2%	2,091	2,602	842	745	9	8	24	24
New Mexico	3,170	3,088	2.6%	2,393	2,323	767	753	10	12	NM	0
Utah	3,598	3,695	-2.6%	3,269	3,483	266	147	8	9	55	56
Wyoming	4,640	4,212	10.2%	4,159	3,766	364	316	0	0	118	130
Pacific Contiguous	31,945	30,775	3.8%	20,257	17,503	10,037	11,504	241	242	1,410	1,526
California	15,440	15,464	-0.2%	6,722	5,592	7,266	8,303	232	231	1,220	1,338
Oregon	5,938	5,652	5.1%	4,519	3,978	1,362	1,607	NM	8	52	59
Washington	10,566	9,659	9.4%	9,016	7,933	1,409	1,594	NM	3	138	129
Pacific Noncontiguous	1,338	1,452	-7.8%	876	994	342	370	49	45	71	43
Alaska	509	599	-15.1%	465	551	18	24	14	15	12	9
Hawaii	829	853	-2.8%	411	443	324	346	34	31	59	34
U.S. Total	345,238	324,427	6.4%	196,879	182,965	134,914	127,458	981	1,033	12,464	12,970

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 for 2016 are preliminary. Values for 2015 are final. 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 December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	108,296	110,235	-1.8%	2,522	3,364	101,750	102,667	1,266	1,293	2,758	2,911
Connecticut	36,455	37,471	-2.7%	38	45	35,584	36,538	380	402	452	486
Maine	11,650	11,741	-0.8%	NM	0	9,362	9,323	208	206	2,080	2,212
Massachusetts	32,453	32,086	1.1%	536	715	31,169	30,654	551	535	197	181
New Hampshire	19,249	20,016	-3.8%	1,064	1,695	18,097	18,217	59	73	29	32
Rhode Island	6,588	6,939	-5.1%	12	12	6,510	6,854	66	73	0	0
Vermont	1,901	1,982	-4.1%	872	898	1,027	1,081	NM	3	0	0
Middle Atlantic	426,680	427,809	-0.3%	34,785	34,725	385,247	386,346	2,201	2,284	4,447	4,454
New Jersey	77,620	74,609	4.0%	-9	-24	76,316	73,272	677	656	636	706
New York	134,249	138,628	-3.2%	34,727	34,682	97,293	101,778	1,251	1,236	978	932
Pennsylvania	214,811	214,572	0.1%	66	67	211,639	211,296	273	392	2,833	2,817
East North Central	585,634	599,233	-2.3%	247,304	254,363	326,911	333,002	1,924	1,982	9,494	9,886
Illinois	186,939	193,952	-3.6%	5,250	4,429	178,782	186,373	390	489	2,517	2,662
Indiana	101,824	104,019	-2.1%	86,612	87,771	11,884	12,722	271	246	3,057	3,280
Michigan	112,719	113,008	-0.3%	78,084	85,370	32,134	25,345	959	1,013	1,543	1,280
Ohio	119,356	121,893	-2.1%	26,888	24,404	91,538	96,499	145	128	785	862
Wisconsin	64,797	66,360	-2.4%	50,471	52,389	12,573	12,064	159	106	1,593	1,801
West North Central	327,099	329,479	-0.7%	273,225	281,397	49,043	43,306	706	593	4,126	4,183
Iowa	54,793	56,659	-3.3%	40,354	41,813	12,110	12,522	263	221	2,066	2,103
Kansas	47,705	45,527	4.8%	34,244	35,294	13,367	10,198	0	0	95	36
Minnesota	60,148	56,980	5.6%	47,891	45,817	10,625	9,519	227	191	1,404	1,453
Missouri	78,905	83,640	-5.7%	75,730	80,879	2,923	2,554	199	164	52	43
Nebraska	37,603	39,883	-5.7%	33,646	36,522	3,596	2,963	17	17	344	381
North Dakota	37,582	37,157	1.1%	33,153	33,106	4,265	3,883	NM	0	163	167
South Dakota	10,363	9,633	7.6%	8,207	7,966	2,157	1,667	NM	0	0	0
South Atlantic	814,035	792,087	2.8%	678,182	664,631	115,766	106,903	1,398	1,321	18,688	19,233
Delaware	8,765	7,810	12.2%	NM	50	7,412	6,533	7	6	1,286	1,221
District of Columbia	55	54	2.0%	0	0	0	31	55	23	0	0
Florida	238,094	237,413	0.3%	216,302	218,247	16,463	13,730	100	79	5,229	5,356
Georgia	133,318	128,818	3.5%	115,654	110,213	12,682	13,475	14	14	4,968	5,116
Maryland	37,282	36,366	2.5%	21	19	36,466	35,567	522	504	274	276
North Carolina	131,486	128,388	2.4%	118,863	119,074	10,505	7,089	257	228	1,860	1,998
South Carolina	96,970	96,532	0.5%	91,793	92,412	3,370	2,430	NM	4	1,793	1,686
Virginia	92,439	84,412	9.5%	76,284	67,573	13,322	13,916	431	463	2,402	2,459
West Virginia	75,626	72,295	4.6%	59,203	57,043	15,546	14,131	0	0	876	1,121
East South Central	366,308	375,994	-2.6%	310,219	319,182	47,083	47,742	154	153	8,852	8,916
Alabama	143,022	152,477	-6.2%	98,715	107,868	40,158	40,392	0	0	4,149	4,217
Kentucky	80,345	83,544	-3.8%	79,221	82,365	538	589	0	0	585	589
Mississippi	62,906	64,758	-2.9%	54,801	56,273	6,188	6,565	NM	7	1,907	1,913
Tennessee	80,035	75,215	6.4%	77,481	72,676	199	195	145	146	2,210	2,197
West South Central	700,377	689,334	1.6%	240,789	242,258	380,174	370,773	1,007	895	78,407	75,408
Arkansas	60,417	55,559	8.7%	43,306	39,538	15,454	14,265	NM	6	1,651	1,750
Louisiana	106,688	107,812	-1.0%	64,531	65,730	10,297	11,143	170	176	31,690	30,764
Oklahoma	77,740	76,136	2.1%	44,897	48,778	31,960	26,468	NM	0	867	889
Texas	455,532	449,826	1.3%	88,054	88,212	322,464	318,898	816	712	44,198	42,004
Mountain	363,970	373,168	-2.5%	284,064	298,033	76,103	71,151	530	534	3,274	3,450
Arizona	108,770	113,142	-3.9%	89,842	94,379	18,782	18,611	145	151	0	0
Colorado	54,394	52,393	3.8%	42,213	42,155	12,081	10,141	35	28	64	69
Idaho	16,011	15,667	2.2%	10,461	10,166	4,957	4,886	8	23	586	592
Montana	28,153	29,302	-3.9%	11,093	10,717	17,030	18,558	0	0	30	28
Nevada	39,549	39,047	1.3%	29,440	30,497	9,656	8,131	141	114	312	305
New Mexico	33,010	32,701	0.9%	24,849	25,951	8,036	6,626	114	124	NM	1
Utah	37,791	41,949	-9.9%	34,068	39,381	2,587	1,505	88	93	1,048	970
Wyoming	46,292	48,967	-5.5%	42,096	44,788	2,974	2,693	0	0	1,222	1,486
Pacific Contiguous	371,247	363,858	2.0%	223,156	206,132	129,204	138,002	2,841	3,001	16,046	16,723
California	199,038	196,704	1.2%	81,134	71,150	101,261	108,154	2,721	2,889	13,922	14,511
Oregon	59,425	57,867	2.7%	44,279	41,306	14,493	15,808	79	78	573	675
Washington	112,784	109,287	3.2%	97,743	93,676	13,450	14,040	41	35	1,550	1,537
Pacific Noncontiguous	15,024	16,404	-8.4%	9,815	11,239	4,099	4,079	565	539	545	548
Alaska	5,417	6,285	-13.8%	4,941	5,746	196	253	160	165	121	121
Hawaii	9,607	10,120	-5.1%	4,874	5,492	3,903	3,826	405	375	424	427
U.S. Total	4,078,670	4,077,601	0.0%	2,304,060	2,315,323	1,615,380	1,603,971	12,593	12,595	146,637	145,712

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 for 2016 are preliminary. Values for 2015 are final. 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, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	567	183	209.3%	155	17	410	164	0	0	NM	2
Connecticut	89	-3	NM	0	0	89	-3	0	0	0	0
Maine	9	6	42.3%	0	0	8	5	0	0	1	1
Massachusetts	314	163	93.1%	0	0	313	162	0	0	NM	1
New Hampshire	155	17	789.0%	155	17	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	5,752	3,912	47.0%	0	0	5,697	3,832	0	0	56	80
New Jersey	120	101	18.4%	0	0	120	101	0	0	0	0
New York	87	87	-0.6%	0	0	60	63	0	0	26	24
Pennsylvania	5,546	3,724	48.9%	0	0	5,517	3,668	0	0	29	56
East North Central	26,194	20,104	30.3%	15,512	12,969	10,487	6,900	8	5	186	230
Illinois	5,885	4,492	31.0%	343	272	5,406	4,065	5	3	132	153
Indiana	7,061	4,953	42.6%	6,783	4,473	275	478	3	2	NM	0
Michigan	3,517	3,993	-11.9%	3,469	3,950	39	31	0	0	NM	12
Ohio	6,786	3,808	78.2%	2,014	1,463	4,767	2,325	0	0	NM	19
Wisconsin	2,943	2,857	3.0%	2,903	2,810	0	0	0	0	40	47
West North Central	17,036	14,656	16.2%	16,802	14,444	NM	2	20	20	212	191
Iowa	2,401	1,943	23.6%	2,260	1,799	0	0	NM	13	129	130
Kansas	2,267	1,499	51.2%	2,267	1,499	0	0	0	0	0	0
Minnesota	2,411	2,070	16.5%	2,365	2,058	0	0	NM	0	46	12
Missouri	5,218	4,630	12.7%	5,206	4,622	NM	2	9	6	NM	0
Nebraska	2,111	1,985	6.4%	2,083	1,947	0	0	0	0	28	37
North Dakota	2,405	2,339	2.8%	2,398	2,327	0	0	0	0	NM	12
South Dakota	224	192	16.5%	224	192	0	0	0	0	0	0
South Atlantic	21,040	14,145	48.8%	18,511	12,548	2,440	1,466	7	6	83	125
Delaware	10	1	851.8%	0	0	10	1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,447	2,759	24.9%	3,434	2,706	0	36	0	0	NM	17
Georgia	2,921	1,667	75.2%	2,903	1,654	0	0	0	0	18	13
Maryland	1,068	502	112.8%	0	0	1,060	494	0	0	7	8
North Carolina	3,097	1,417	118.6%	3,070	1,388	NM	9	6	5	NM	15
South Carolina	1,879	1,126	66.9%	1,875	1,115	0	0	0	0	4	12
Virginia	1,621	1,279	26.7%	1,537	1,227	52	21	NM	1	30	29
West Virginia	6,997	5,393	29.7%	5,690	4,458	1,307	904	0	0	0	32
East South Central	12,073	9,071	33.1%	11,776	8,840	230	138	0	0	66	94
Alabama	2,803	2,488	12.7%	2,799	2,481	0	0	0	0	NM	7
Kentucky	6,095	5,086	19.8%	6,095	5,086	0	0	0	0	0	0
Mississippi	417	171	144.0%	186	33	230	138	0	0	0	0
Tennessee	2,758	1,326	108.0%	2,696	1,240	0	0	0	0	62	86
West South Central	18,925	10,877	74.0%	9,897	5,694	9,006	5,149	0	0	NM	34
Arkansas	2,897	1,057	174.0%	2,439	798	453	253	0	0	5	6
Louisiana	1,317	932	41.4%	886	720	431	211	0	0	0	0
Oklahoma	2,184	1,315	66.1%	2,007	1,142	160	145	0	0	NM	28
Texas	12,527	7,573	65.4%	4,565	3,033	7,961	4,540	0	0	0	0
Mountain	15,920	15,219	4.6%	14,418	13,619	1,471	1,559	0	0	30	41
Arizona	3,056	2,752	11.1%	3,056	2,752	0	0	0	0	0	0
Colorado	2,942	2,829	4.0%	2,938	2,821	NM	7	0	0	NM	1
Idaho	NM	9	NM	0	0	0	0	0	0	NM	9
Montana	1,307	1,389	-5.9%	NM	26	1,286	1,363	0	0	NM	1
Nevada	73	182	-60.0%	-5	91	78	91	0	0	0	0
New Mexico	1,948	1,790	8.8%	1,948	1,790	0	0	0	0	0	0
Utah	2,637	2,708	-2.7%	2,597	2,670	NM	38	0	0	0	0
Wyoming	3,953	3,560	11.0%	3,865	3,470	NM	60	0	0	24	31
Pacific Contiguous	1,113	1,126	-1.1%	369	375	713	717	0	0	32	34
California	28	31	-8.3%	0	0	0	0	0	0	28	31
Oregon	369	375	-1.8%	369	375	0	0	0	0	0	0
Washington	717	720	-0.5%	0	0	713	717	0	0	4	3
Pacific Noncontiguous	170	201	-15.3%	23	53	136	137	10	10	NM	1
Alaska	45	81	-44.7%	23	53	NM	18	10	10	0	0
Hawaii	125	120	4.7%	0	0	124	118	0	0	NM	1
U.S. Total	118,790	89,495	32.7%	87,463	68,558	30,591	20,063	45	41	691	832

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Notes: See Glossary for definitions. Values for 2016 are preliminary. Values for 2015 are final. 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 December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	2,562	3,882	-34.0%	422	937	2,113	2,901	0	0	27	44
Connecticut	177	600	-70.5%	0	0	177	600	0	0	0	0
Maine	70	92	-24.0%	0	0	60	65	0	0	10	27
Massachusetts	1,892	2,253	-16.0%	0	0	1,875	2,236	0	0	18	17
New Hampshire	422	937	-54.9%	422	937	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	57,538	68,776	-16.3%	0	0	56,806	67,990	0	2	732	784
New Jersey	1,315	1,759	-25.3%	0	0	1,315	1,759	0	0	0	0
New York	1,770	2,380	-25.6%	0	0	1,437	2,075	0	0	333	305
Pennsylvania	54,453	64,637	-15.8%	0	0	54,054	64,156	0	2	399	479
East North Central	274,771	313,779	-12.4%	165,308	182,410	107,209	128,589	90	136	2,165	2,644
Illinois	59,315	73,774	-19.6%	3,419	3,715	54,397	68,404	32	37	1,466	1,618
Indiana	72,582	78,231	-7.2%	69,117	72,720	3,421	5,474	42	37	NM	0
Michigan	40,560	52,884	-23.3%	39,996	52,297	445	393	15	62	104	132
Ohio	68,944	71,710	-3.9%	19,849	17,180	48,946	54,318	0	0	148	212
Wisconsin	33,370	37,181	-10.2%	32,927	36,499	0	0	0	0	443	682
West North Central	183,347	197,842	-7.3%	180,526	194,736	18	26	181	187	2,621	2,893
Iowa	25,601	29,811	-14.1%	23,807	27,880	0	0	125	128	1,668	1,803
Kansas	23,096	24,593	-6.1%	23,096	24,593	0	0	0	0	0	0
Minnesota	23,484	24,697	-4.9%	22,960	24,111	0	0	NM	1	521	586
Missouri	60,580	65,326	-7.3%	60,483	65,221	18	26	53	58	26	21
Nebraska	21,914	24,185	-9.4%	21,585	23,804	0	0	0	0	328	381
North Dakota	26,589	27,734	-4.1%	26,512	27,632	0	0	0	0	77	103
South Dakota	2,083	1,495	39.3%	2,083	1,495	0	0	0	0	0	0
South Atlantic	238,128	242,400	-1.8%	208,102	212,673	28,835	27,959	60	74	1,131	1,694
Delaware	479	599	-19.9%	0	0	479	599	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	39,425	42,904	-8.1%	38,522	41,588	733	1,129	0	0	170	187
Georgia	37,890	37,131	2.0%	37,677	36,915	0	0	0	0	213	216
Maryland	13,826	13,926	-0.7%	0	0	13,751	13,810	0	0	75	115
North Carolina	37,539	39,922	-6.0%	37,020	39,349	317	337	45	56	158	181
South Carolina	21,006	22,631	-7.2%	20,900	22,488	0	0	0	0	106	143
Virginia	16,551	17,231	-3.9%	15,605	16,023	633	878	NM	19	298	312
West Virginia	71,412	68,056	4.9%	58,377	56,310	12,922	11,206	0	0	112	540
East South Central	137,683	151,017	-8.8%	133,837	146,886	2,895	3,029	0	0	951	1,101
Alabama	34,284	41,410	-17.2%	34,208	41,311	0	0	0	0	76	99
Kentucky	66,889	72,620	-7.9%	66,889	72,620	0	0	0	0	0	0
Mississippi	5,342	6,400	-16.5%	2,447	3,371	2,895	3,029	0	0	0	0
Tennessee	31,168	30,586	1.9%	30,293	29,584	0	0	0	0	875	1,002
West South Central	176,209	183,326	-3.9%	88,820	95,150	86,965	87,746	0	0	423	430
Arkansas	23,800	21,740	9.5%	19,154	17,634	4,596	4,049	0	0	50	57
Louisiana	12,014	15,165	-20.8%	8,062	9,125	3,952	6,040	0	0	0	0
Oklahoma	19,164	24,867	-22.9%	16,903	22,663	1,888	1,831	0	0	373	373
Texas	121,231	121,554	-0.3%	44,702	45,729	76,529	75,826	0	0	0	0
Mountain	160,973	181,645	-11.4%	144,071	162,855	16,100	17,852	0	0	802	937
Arizona	30,403	36,167	-15.9%	30,403	36,167	0	0	0	0	0	0
Colorado	29,980	31,541	-4.9%	29,920	31,471	55	62	0	0	NM	8
Idaho	61	79	-22.4%	0	0	0	0	0	0	61	79
Montana	14,329	16,013	-10.5%	207	221	14,113	15,786	0	0	NM	7
Nevada	2,167	2,657	-18.5%	1,279	1,804	888	853	0	0	0	0
New Mexico	18,365	20,440	-10.1%	18,365	20,440	0	0	0	0	0	0
Utah	25,897	31,656	-18.2%	25,103	30,815	357	418	0	0	437	424
Wyoming	39,770	43,091	-7.7%	38,794	41,937	687	734	0	0	289	420
Pacific Contiguous	6,819	7,727	-11.8%	1,898	2,377	4,569	5,016	0	0	352	334
California	319	298	7.1%	0	0	0	0	0	0	319	298
Oregon	1,898	2,377	-20.2%	1,898	2,377	0	0	0	0	0	0
Washington	4,602	5,052	-8.9%	0	0	4,569	5,016	0	0	33	36
Pacific Noncontiguous	2,060	2,005	2.8%	295	360	1,633	1,501	106	109	NM	35
Alaska	541	668	-18.9%	295	360	141	198	106	109	0	0
Hawaii	1,519	1,337	13.6%	0	0	1,492	1,303	0	0	NM	35
U.S. Total	1,240,089	1,352,398	-8.3%	923,280	998,385	307,143	342,608	436	509	9,231	10,896

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2016 are preliminary. Values for 2015 are final. 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, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	79	13	505.7%	6	4	66	5	NM	3	NM	1
Connecticut	15	2	596.9%	1	0	13	2	NM	0	NM	0
Maine	6	4	49.6%	NM	0	4	3	NM	0	2	1
Massachusetts	53	6	785.8%	2	3	49	0	NM	3	NM	0
New Hampshire	3	0	789.0%	2	0	NM	0	NM	0	NM	0
Rhode Island	NM	NM	NM	1	0	NM	0	NM	NM	0	0
Vermont	NM	0	NM	NM	0	0	0	NM	0	0	0
Middle Atlantic	100	37	167.8%	26	6	66	26	3	NM	5	4
New Jersey	18	2	NM	NM	0	18	1	NM	0	NM	0
New York	60	16	270.9%	26	6	27	6	3	NM	4	3
Pennsylvania	22	20	11.2%	NM	0	21	19	NM	0	NM	1
East North Central	56	56	0.6%	24	28	30	24	NM	0	2	3
Illinois	6	6	-6.7%	1	1	5	6	NM	0	0	0
Indiana	11	11	-5.8%	9	9	0	0	NM	0	2	2
Michigan	8	8	2.5%	8	7	0	NM	NM	0	NM	0
Ohio	30	29	3.9%	5	9	24	18	NM	0	NM	1
Wisconsin	2	2	4.6%	2	1	0	0	NM	0	NM	0
West North Central	39	34	17.5%	39	33	NM	0	NM	0	NM	0
Iowa	12	15	-20.3%	12	15	NM	0	NM	0	NM	0
Kansas	4	5	-21.7%	4	5	0	0	0	0	0	0
Minnesota	NM	2	NM	4	2	NM	0	NM	0	NM	0
Missouri	13	8	49.8%	13	8	NM	0	NM	0	0	0
Nebraska	NM	0	NM	NM	0	0	0	0	0	0	0
North Dakota	5	2	121.5%	5	2	0	0	NM	0	NM	0
South Dakota	NM	0	NM	NM	0	NM	0	NM	0	0	0
South Atlantic	126	96	31.9%	103	46	18	44	NM	0	4	5
Delaware	3	7	-56.4%	NM	0	3	7	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	41	20	109.0%	40	17	NM	1	0	0	NM	1
Georgia	6	0	NM	3	-2	NM	0	NM	0	NM	2
Maryland	8	4	101.2%	1	0	6	4	NM	0	NM	0
North Carolina	32	16	98.7%	28	10	3	5	NM	0	NM	1
South Carolina	9	5	65.1%	7	4	NM	0	NM	0	2	1
Virginia	15	34	-57.5%	10	7	5	27	NM	0	NM	0
West Virginia	13	9	51.3%	13	8	0	0	0	0	0	0
East South Central	18	37	-50.1%	17	34	0	NM	0	0	NM	3
Alabama	4	9	-58.2%	3	6	0	NM	0	0	NM	2
Kentucky	7	12	-43.0%	7	12	0	0	0	0	0	0
Mississippi	2	0	359.7%	2	0	0	0	0	0	0	0
Tennessee	6	15	-61.8%	6	15	NM	0	0	0	NM	0
West South Central	16	25	-36.8%	11	17	4	8	NM	0	NM	1
Arkansas	6	7	-11.2%	5	4	1	3	0	0	0	0
Louisiana	1	8	-87.9%	1	8	0	0	0	0	0	0
Oklahoma	1	2	-41.5%	1	1	0	0	NM	0	NM	0
Texas	8	9	-7.4%	4	3	3	5	NM	0	NM	0
Mountain	17	18	-2.8%	15	15	2	2	NM	0	NM	0
Arizona	3	3	-0.3%	3	3	0	0	NM	0	0	0
Colorado	NM	1	NM	NM	1	0	0	0	0	NM	0
Idaho	NM	0	NM	NM	0	0	0	0	0	0	0
Montana	NM	2	NM	NM	0	2	2	0	0	0	0
Nevada	0	1	-75.1%	0	1	0	0	0	0	0	0
New Mexico	6	5	22.6%	6	5	0	0	0	0	NM	0
Utah	3	1	141.0%	3	1	NM	0	0	0	NM	0
Wyoming	2	4	-62.3%	2	4	0	0	0	0	NM	0
Pacific Contiguous	10	10	-6.1%	5	3	4	6	NM	0	NM	1
California	5	6	-7.0%	3	3	2	3	NM	0	NM	0
Oregon	2	0	NM	2	0	0	0	NM	0	0	0
Washington	3	4	-38.1%	NM	0	1	3	NM	0	NM	1
Pacific Noncontiguous	677	622	8.8%	510	464	119	138	NM	1	NM	19
Alaska	110	46	137.0%	105	43	0	0	NM	1	5	3
Hawaii	568	576	-1.5%	406	421	119	138	0	0	NM	17
U.S. Total	1,139	948	20.2%	755	650	309	254	10	7	65	38

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

by State, by Sector, Year-to-Date through December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	721	2,055	-64.9%	57	188	590	1,740	49	84	25	42
Connecticut	100	437	-77.2%	8	8	81	411	NM	10	NM	9
Maine	120	548	-78.0%	NM	0	99	512	NM	3	20	34
Massachusetts	438	777	-43.7%	17	61	396	677	24	39	NM	0
New Hampshire	30	176	-82.9%	20	106	NM	54	8	16	NM	0
Rhode Island	32	114	-72.0%	12	12	12	86	NM	NM	0	0
Vermont	NM	3	NM	NM	2	0	0	NM	1	0	0
Middle Atlantic	1,013	2,767	-63.4%	315	821	612	1,808	33	62	53	77
New Jersey	92	304	-69.9%	NM	4	86	294	NM	1	NM	5
New York	654	1,892	-65.4%	312	817	275	959	30	59	37	58
Pennsylvania	267	571	-53.2%	NM	0	251	554	NM	2	14	14
East North Central	540	570	-5.3%	313	346	204	194	4	3	19	26
Illinois	65	56	16.2%	5	8	59	48	1	0	0	0
Indiana	113	159	-29.0%	100	141	NM	0	NM	0	12	18
Michigan	121	109	11.2%	117	104	0	NM	2	2	2	2
Ohio	215	220	-2.2%	69	72	143	143	NM	0	3	5
Wisconsin	26	27	-2.8%	23	22	3	3	NM	0	NM	1
West North Central	249	289	-13.8%	239	282	NM	5	2	1	2	1
Iowa	73	64	13.5%	72	64	1	0	NM	0	NM	0
Kansas	28	49	-41.5%	28	49	0	0	0	0	0	0
Minnesota	31	28	9.4%	23	22	NM	5	2	1	NM	1
Missouri	77	99	-22.0%	77	99	NM	0	NM	0	0	0
Nebraska	6	6	4.8%	6	6	0	0	0	0	0	0
North Dakota	30	26	15.1%	30	26	0	0	NM	0	NM	1
South Dakota	4	17	-79.6%	3	17	NM	0	NM	0	0	0
South Atlantic	2,180	2,992	-27.1%	1,637	2,137	454	740	8	21	81	93
Delaware	54	154	-65.1%	NM	5	51	149	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	767	582	31.9%	744	560	NM	7	0	0	15	14
Georgia	121	147	-17.7%	60	54	23	48	4	3	34	42
Maryland	176	232	-24.2%	12	11	161	204	NM	16	2	NM
North Carolina	284	435	-34.6%	218	362	59	58	NM	0	NM	14
South Carolina	117	193	-39.2%	99	167	NM	11	NM	0	17	15
Virginia	537	1,108	-51.6%	383	851	147	249	NM	1	NM	7
West Virginia	123	140	-12.5%	118	127	5	14	0	0	0	0
East South Central	292	346	-15.6%	265	312	5	10	NM	0	21	24
Alabama	48	84	-42.6%	26	53	5	10	0	0	NM	21
Kentucky	106	113	-6.2%	106	113	0	0	0	0	0	0
Mississippi	17	14	23.5%	15	12	0	0	0	0	3	2
Tennessee	121	135	-10.7%	119	133	NM	0	NM	0	NM	2
West South Central	156	257	-39.3%	102	155	47	90	NM	1	7	12
Arkansas	42	60	-29.9%	30	39	9	13	0	0	3	8
Louisiana	15	78	-81.4%	13	65	2	13	0	0	0	0
Oklahoma	18	11	68.3%	17	9	0	0	NM	0	2	2
Texas	81	108	-24.9%	42	42	36	63	NM	1	NM	2
Mountain	216	213	1.7%	195	194	21	17	NM	NM	NM	1
Arizona	52	48	7.9%	52	48	0	0	NM	0	0	0
Colorado	10	7	33.1%	10	7	0	0	0	NM	NM	0
Idaho	NM	0	NM	NM	0	0	0	0	0	0	0
Montana	17	14	28.6%	NM	0	17	13	0	0	0	0
Nevada	11	16	-31.3%	8	13	3	3	0	0	0	0
New Mexico	50	63	-21.1%	50	63	0	0	0	0	NM	0
Utah	31	20	57.9%	30	19	NM	1	0	0	NM	0
Wyoming	45	45	1.0%	45	45	0	0	0	0	NM	0
Pacific Contiguous	118	112	5.0%	40	42	17	34	NM	1	60	35
California	93	85	9.5%	33	35	8	25	NM	0	51	25
Oregon	5	6	-19.4%	5	6	0	0	NM	0	0	0
Washington	20	22	-5.9%	NM	2	10	9	NM	0	8	10
Pacific Noncontiguous	7,188	7,770	-7.5%	5,507	5,908	1,415	1,602	9	9	257	250
Alaska	787	747	5.5%	741	695	0	0	6	6	41	46
Hawaii	6,401	7,023	-8.9%	4,766	5,213	1,415	1,602	3	3	216	205
U.S. Total	12,674	17,372	-27.0%	8,670	10,386	3,373	6,240	106	183	524	563

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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 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 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	23	18	23.3%	0	0	0	0	0	0	23	18
New Jersey	NM	6	NM	0	0	0	0	0	0	NM	6
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	13	NM	0	0	0	0	0	0	NM	13
East North Central	137	175	-21.7%	39	130	83	27	0	0	16	18
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	119	-100.0%	0	119	0	0	0	0	0	0
Michigan	47	15	220.6%	34	0	0	4	0	0	NM	10
Ohio	84	23	268.4%	0	0	83	23	0	0	NM	0
Wisconsin	7	19	-64.2%	5	11	0	0	0	0	2	7
West North Central	NM	3	NM	0	0	0	0	1	1	NM	3
Iowa	NM	3	NM	0	0	0	0	1	1	NM	3
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	106	111	-3.9%	96	103	0	0	0	0	10	8
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	96	103	-6.9%	96	103	0	0	0	0	0	0
Georgia	10	8	35.8%	0	0	0	0	0	0	10	8
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	79	58	36.3%	79	58	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	79	58	36.3%	79	58	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	479	344	39.5%	453	313	0	0	0	0	26	31
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	470	336	40.1%	453	313	0	0	0	0	17	23
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	9	8	12.3%	0	0	0	0	0	0	9	8
Mountain	41	40	2.0%	0	0	41	40	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	41	40	2.0%	0	0	41	40	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	871	749	16.3%	667	604	124	67	1	1	79	77

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

by State, by Sector, Year-to-Date through December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 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	263	229	14.7%	0	0	0	0	0	0	263	229
New Jersey	74	71	4.3%	0	0	0	0	0	0	74	71
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	189	158	19.4%	0	0	0	0	0	0	189	158
East North Central	2,297	3,175	-27.7%	1,133	1,790	958	1,118	0	0	207	268
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	497	1,179	-57.9%	497	1,179	0	0	0	0	0	0
Michigan	711	718	-1.0%	553	542	3	29	0	0	155	147
Ohio	969	1,097	-11.7%	0	0	955	1,088	0	0	NM	9
Wisconsin	120	181	-33.6%	83	69	0	0	0	0	37	112
West North Central	62	46	34.7%	0	0	0	0	6	8	56	38
Iowa	62	46	34.7%	0	0	0	0	6	8	56	38
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	2,146	1,681	27.7%	2,048	1,568	0	0	0	0	97	113
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	2,048	1,568	30.7%	2,048	1,568	0	0	0	0	0	0
Georgia	97	113	-13.9%	0	0	0	0	0	0	97	113
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	1,130	964	17.2%	1,130	964	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	1,130	964	17.2%	1,130	964	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	4,891	4,299	13.8%	4,569	3,957	0	0	0	0	322	342
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	4,771	4,165	14.6%	4,569	3,957	0	0	0	0	202	208
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	120	134	-10.5%	0	0	0	0	0	0	120	134
Mountain	443	483	-8.3%	0	0	443	483	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	443	483	-8.3%	0	0	443	483	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	11,232	10,877	3.3%	8,881	8,278	1,400	1,601	6	8	945	990

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 for 2016 are preliminary. Values for 2015 are final. 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.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	3,723	3,934	-5.3%	6	20	3,563	3,748	74	70	80	96
Connecticut	1,385	1,664	-16.7%	0	3	1,324	1,579	NM	37	NM	44
Maine	146	244	-40.2%	0	0	111	203	NM	2	NM	39
Massachusetts	1,490	1,235	20.7%	4	16	1,433	1,181	39	26	NM	12
New Hampshire	303	377	-19.6%	1	0	298	373	NM	1	NM	2
Rhode Island	400	414	-3.6%	0	0	396	411	NM	NM	0	0
Vermont	NM	0	NM	0	0	0	0	NM	0	0	0
Middle Atlantic	12,546	11,765	6.6%	714	965	11,596	10,546	89	93	148	161
New Jersey	2,983	2,954	1.0%	NM	8	2,938	2,903	NM	16	NM	26
New York	4,087	3,789	7.9%	708	958	3,286	2,735	65	66	29	31
Pennsylvania	5,476	5,022	9.0%	NM	0	5,372	4,908	NM	10	95	104
East North Central	7,745	8,513	-9.0%	3,199	3,907	4,247	4,300	111	130	189	176
Illinois	1,044	1,100	-5.1%	76	61	899	932	29	42	NM	66
Indiana	1,718	1,743	-1.4%	1,387	1,359	268	318	NM	15	49	52
Michigan	1,912	2,001	-4.4%	544	587	1,268	1,334	50	53	49	27
Ohio	2,227	2,338	-4.8%	499	649	1,703	1,669	NM	13	16	7
Wisconsin	845	1,331	-36.5%	693	1,252	108	48	NM	7	35	24
West North Central	1,158	1,627	-28.8%	889	1,384	188	165	19	16	62	62
Iowa	128	258	-50.5%	79	226	NM	0	NM	4	42	28
Kansas	97	45	114.8%	96	44	0	0	0	0	NM	2
Minnesota	391	852	-54.2%	312	777	55	37	NM	11	14	28
Missouri	435	358	21.6%	298	224	133	128	2	1	NM	3
Nebraska	22	11	96.1%	21	11	0	0	NM	0	NM	0
North Dakota	54	19	177.3%	51	19	0	0	0	0	NM	1
South Dakota	32	83	-61.6%	32	83	0	0	0	0	0	0
South Atlantic	22,281	24,703	-9.8%	19,475	20,632	2,413	3,678	NM	36	350	356
Delaware	363	387	-6.0%	NM	2	291	287	0	0	70	97
District of Columbia	NM	2	NM	0	0	0	0	NM	2	0	0
Florida	10,717	12,093	-11.4%	10,288	11,473	314	492	NM	3	114	125
Georgia	3,839	4,092	-6.2%	3,265	3,077	525	965	0	0	49	50
Maryland	101	298	-65.9%	0	0	60	261	NM	30	NM	7
North Carolina	3,124	3,138	-0.4%	2,744	2,818	365	302	2	1	NM	17
South Carolina	980	1,402	-30.1%	923	1,220	48	178	0	0	9	4
Virginia	3,096	3,240	-4.4%	2,247	2,041	803	1,142	NM	1	45	56
West Virginia	56	52	8.1%	5	1	8	51	0	0	43	0
East South Central	9,950	9,630	3.3%	6,618	5,679	3,127	3,768	NM	14	194	168
Alabama	4,442	4,692	-5.3%	1,425	1,173	2,917	3,424	0	0	101	95
Kentucky	671	500	34.1%	626	481	26	0	0	0	NM	19
Mississippi	3,802	3,583	6.1%	3,581	3,205	184	344	NM	1	36	33
Tennessee	1,035	854	21.2%	986	820	0	0	NM	13	39	21
West South Central	22,021	28,629	-23.1%	5,629	8,624	10,526	14,041	62	66	5,805	5,897
Arkansas	952	928	2.7%	242	409	679	489	NM	0	31	29
Louisiana	4,591	6,021	-23.7%	1,971	3,063	364	613	NM	16	2,242	2,328
Oklahoma	2,264	3,202	-29.3%	1,503	2,261	746	920	0	0	NM	22
Texas	14,214	18,478	-23.1%	1,913	2,890	8,738	12,019	47	50	3,516	3,518
Mountain	6,145	8,218	-25.2%	4,666	6,355	1,315	1,700	34	36	130	126
Arizona	1,235	2,345	-47.3%	758	1,517	466	819	11	9	0	0
Colorado	926	1,103	-16.1%	758	957	166	145	0	0	NM	2
Idaho	235	413	-43.1%	99	224	126	179	0	3	10	7
Montana	44	72	-39.5%	39	64	NM	8	0	0	0	0
Nevada	2,233	2,571	-13.1%	2,011	2,348	192	194	NM	5	24	23
New Mexico	778	866	-10.2%	417	507	351	348	10	11	0	0
Utah	629	784	-19.8%	575	730	NM	7	NM	7	39	39
Wyoming	65	63	2.8%	NM	8	NM	0	0	0	56	55
Pacific Contiguous	10,662	12,485	-14.6%	4,428	4,511	5,065	6,729	162	156	1,007	1,089
California	7,894	9,456	-16.5%	2,832	3,053	3,916	5,182	156	149	990	1,071
Oregon	1,794	1,764	1.7%	950	711	833	1,037	NM	5	6	10
Washington	974	1,266	-23.0%	646	747	316	509	NM	2	11	8
Pacific Noncontiguous	179	274	-34.7%	172	268	0	0	NM	0	NM	6
Alaska	179	274	-34.7%	172	268	0	0	NM	0	NM	6
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	96,412	109,777	-12.2%	45,796	52,345	42,039	48,676	605	617	7,973	8,137

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Notes: See Glossary for definitions. Values for 2016 are preliminary. Values for 2015 are final. 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 December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	53,950	53,961	0.0%	283	414	51,557	51,527	955	946	1,156	1,073
Connecticut	17,808	17,362	2.6%	4	13	16,983	16,487	374	385	447	477
Maine	3,691	2,952	25.0%	0	0	3,159	2,517	25	27	507	408
Massachusetts	21,415	21,007	1.9%	241	378	20,517	20,012	485	461	171	157
New Hampshire	4,739	6,052	-21.7%	37	22	4,652	5,976	NM	22	29	31
Rhode Island	6,295	6,586	-4.4%	0	0	6,245	6,536	50	50	0	0
Vermont	NM	1	NM	1	1	0	0	NM	0	0	0
Middle Atlantic	168,307	153,353	9.8%	11,859	12,145	153,444	138,287	1,126	1,090	1,878	1,831
New Jersey	43,643	36,974	18.0%	NM	78	43,023	36,350	204	206	332	340
New York	56,798	56,923	-0.2%	11,767	12,062	43,893	43,811	790	760	348	290
Pennsylvania	67,866	59,455	14.1%	NM	4	66,528	58,127	132	123	1,198	1,201
East North Central	111,951	88,604	26.3%	48,559	39,198	59,874	46,414	1,451	1,355	2,068	1,637
Illinois	17,415	10,864	60.3%	1,738	629	14,792	9,276	350	446	536	513
Indiana	20,118	16,263	23.7%	16,102	13,021	3,287	2,532	191	167	537	543
Michigan	29,831	20,045	48.8%	10,117	6,320	18,499	12,896	656	555	559	273
Ohio	28,866	28,034	3.0%	6,617	6,884	22,029	20,948	130	117	91	84
Wisconsin	15,720	13,399	17.3%	13,985	12,342	1,266	762	124	70	346	224
West North Central	22,903	17,472	31.1%	18,838	14,663	3,143	2,194	328	227	594	388
Iowa	3,089	2,398	28.8%	2,720	2,164	NM	0	96	45	273	190
Kansas	2,130	1,174	81.4%	2,043	1,138	0	0	0	0	87	36
Minnesota	9,018	7,389	22.0%	7,265	6,392	1,452	771	133	105	168	122
Missouri	6,082	4,596	32.3%	4,270	3,077	1,691	1,424	97	76	NM	20
Nebraska	714	431	65.9%	698	430	0	0	NM	1	15	0
North Dakota	872	711	22.7%	844	690	0	0	0	0	28	21
South Dakota	997	773	29.0%	997	773	0	0	0	0	0	0
South Atlantic	321,964	305,242	5.5%	262,870	251,847	54,411	49,108	624	537	4,059	3,751
Delaware	7,819	6,689	16.9%	NM	39	6,774	5,684	0	0	995	967
District of Columbia	55	23	141.4%	0	0	0	0	55	23	0	0
Florida	158,208	155,824	1.5%	145,087	145,887	11,706	8,513	52	33	1,362	1,392
Georgia	52,979	50,469	5.0%	41,274	37,264	11,147	12,615	0	0	558	590
Maryland	5,461	4,555	19.9%	0	0	4,888	4,031	488	466	84	59
North Carolina	39,386	36,545	7.8%	34,118	32,567	5,064	3,794	12	8	193	176
South Carolina	16,173	16,549	-2.3%	13,189	14,571	2,887	1,939	NM	2	87	38
Virginia	40,656	33,284	22.1%	29,010	21,401	11,105	11,346	NM	6	535	531
West Virginia	1,227	1,304	-5.9%	142	119	840	1,185	0	0	245	0
East South Central	127,451	116,235	9.6%	81,582	69,949	43,652	44,223	151	151	2,067	1,913
Alabama	57,750	55,844	3.4%	16,859	14,691	39,849	40,126	0	0	1,043	1,027
Kentucky	8,255	5,950	38.8%	7,505	5,135	523	574	0	0	227	241
Mississippi	50,150	45,117	11.2%	46,442	41,175	3,280	3,523	NM	7	419	411
Tennessee	11,296	9,324	21.2%	10,777	8,947	0	0	141	143	378	233
West South Central	348,388	353,095	-1.3%	108,239	104,963	171,444	182,641	923	823	67,782	64,668
Arkansas	18,259	14,866	22.8%	7,291	4,476	10,672	10,068	NM	2	294	320
Louisiana	66,194	66,211	0.0%	34,735	37,283	5,145	4,001	170	176	26,144	24,751
Oklahoma	36,381	34,286	6.1%	24,248	22,087	11,941	12,019	NM	0	176	180
Texas	227,554	237,731	-4.3%	41,965	41,117	143,685	156,552	735	645	41,168	39,417
Mountain	98,999	97,008	2.1%	72,902	69,836	24,291	25,359	375	418	1,431	1,394
Arizona	34,205	33,657	1.6%	19,275	18,497	14,806	15,030	124	130	0	0
Colorado	12,668	11,644	8.8%	10,731	9,391	1,916	2,230	2	NM	NM	19
Idaho	3,290	3,804	-13.5%	1,818	2,128	1,387	1,606	0	15	86	55
Montana	694	599	15.8%	618	534	76	65	0	0	0	0
Nevada	28,839	29,000	-0.6%	26,369	26,428	2,097	2,200	63	69	310	302
New Mexico	9,997	9,365	6.7%	6,038	5,190	3,837	4,052	111	121	NM	1
Utah	8,548	8,218	4.0%	7,871	7,527	171	176	75	78	431	436
Wyoming	758	722	4.9%	183	139	NM	1	0	0	574	582
Pacific Contiguous	124,056	145,423	-14.7%	47,097	51,784	64,025	80,085	1,816	1,924	11,119	11,630
California	97,531	116,140	-16.0%	32,720	37,076	52,119	65,695	1,730	1,853	10,962	11,516
Oregon	15,353	16,237	-5.4%	7,598	6,599	7,626	9,532	62	52	67	55
Washington	11,172	13,046	-14.4%	6,779	8,109	4,280	4,859	NM	19	89	59
Pacific Noncontiguous	2,323	3,090	-24.8%	2,247	3,019	0	0	NM	0	74	70
Alaska	2,323	3,090	-24.8%	2,247	3,019	0	0	NM	0	74	70
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,380,293	1,333,482	3.5%	654,475	617,817	625,841	619,839	7,750	7,471	92,227	88,355

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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.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 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	48	48	0.2%	0	0	NM	0	0	0	48	48
New Jersey	NM	17	NM	0	0	0	0	0	0	NM	17
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	36	32	15.4%	0	0	NM	0	0	0	36	32
East North Central	363	324	12.1%	23	1	154	99	0	0	186	223
Illinois	NM	44	NM	0	0	0	0	0	0	NM	44
Indiana	160	166	-3.4%	NM	2	0	0	0	0	159	164
Michigan	137	37	269.7%	21	0	115	37	0	0	0	0
Ohio	51	77	-34.4%	0	0	39	62	0	0	NM	15
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	NM	2	NM	0	0	0	0	0	0	NM	2
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	2	NM	0	0	0	0	0	0	NM	2
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	26	27	-2.7%	0	0	0	0	0	0	26	27
Delaware	24	25	-4.1%	0	0	0	0	0	0	24	25
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-15.7%	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	2	17.0%	0	0	0	0	0	0	2	2
East South Central	NM	1	NM	0	0	0	0	0	0	NM	1
Alabama	NM	0	NM	0	0	0	0	0	0	NM	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	2	1	65.1%	0	0	0	0	0	0	2	1
West South Central	382	484	-21.0%	0	0	112	165	0	0	271	319
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	168	220	-23.7%	0	0	0	0	0	0	168	220
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	215	264	-18.7%	0	0	112	165	0	0	103	99
Mountain	39	40	-2.5%	0	0	1	2	0	0	38	39
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	-6.8%	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	NM	1	NM	0	0	0	0	0	0	NM	1
Wyoming	37	38	-1.3%	0	0	0	0	0	0	37	38
Pacific Contiguous	139	180	-22.7%	0	0	37	36	0	0	102	144
California	102	144	-29.4%	0	0	0	0	0	0	102	144
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	37	36	4.1%	0	0	37	36	0	0	0	0
Pacific Noncontiguous	NM	4	NM	0	0	0	0	0	0	NM	4
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	NM	4	NM	0	0	0	0	0	0	NM	4
U.S. Total	1,007	1,110	-9.2%	23	1	304	302	0	0	680	806

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2016 are preliminary. Values for 2015 are final. 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.B. Utility Scale Facility Net Generation from Other Gases

by State, by Sector, Year-to-Date through December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 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	720	641	12.3%	0	0	NM	0	0	0	719	641
New Jersey	222	221	0.6%	0	0	0	0	0	0	222	221
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	498	420	18.5%	0	0	NM	0	0	0	497	420
East North Central	4,912	4,706	4.4%	164	199	2,172	1,785	0	0	2,576	2,723
Illinois	282	280	0.6%	0	0	6	2	0	0	276	278
Indiana	2,114	2,269	-6.8%	NM	20	0	0	0	0	2,094	2,248
Michigan	1,615	1,213	33.1%	145	178	1,470	1,034	0	0	0	0
Ohio	902	945	-4.5%	0	0	696	748	0	0	206	197
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	46	39	17.5%	0	0	0	0	0	0	46	39
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	46	39	17.5%	0	0	0	0	0	0	46	39
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	307	272	12.8%	0	0	0	0	0	0	307	272
Delaware	277	238	16.5%	0	0	0	0	0	0	277	238
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5	5	-1.2%	0	0	0	0	0	0	5	5
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	25	29	-15.2%	0	0	0	0	0	0	25	29
East South Central	43	48	-10.0%	0	0	0	0	0	0	43	48
Alabama	28	36	-22.9%	0	0	0	0	0	0	28	36
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	15	12	28.7%	0	0	0	0	0	0	15	12
West South Central	4,715	4,980	-5.3%	0	0	1,318	1,314	0	0	3,397	3,666
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	2,090	2,401	-12.9%	0	0	0	0	0	0	2,090	2,401
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2,625	2,579	1.8%	0	0	1,318	1,314	0	0	1,307	1,265
Mountain	375	436	-14.2%	0	0	9	23	0	0	365	414
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	9	17	-49.7%	0	0	9	17	0	0	0	0
Nevada	1	6	-86.6%	0	0	1	6	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	8	NM	0	0	0	0	0	0	NM	8
Wyoming	358	405	-11.7%	0	0	0	0	0	0	358	405
Pacific Contiguous	1,840	1,944	-5.3%	0	0	402	395	0	0	1,439	1,549
California	1,439	1,549	-7.1%	0	0	0	0	0	0	1,439	1,549
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	402	395	1.7%	0	0	402	395	0	0	0	0
Pacific Noncontiguous	42	50	-15.9%	0	0	0	0	0	0	42	50
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	42	50	-15.9%	0	0	0	0	0	0	42	50
U.S. Total	13,000	13,117	-0.9%	164	199	3,902	3,517	0	0	8,934	9,401

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 for 2016 are preliminary. Values for 2015 are final. 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, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	2,859	2,987	-4.3%	0	0	2,859	2,987	0	0	0	0
Connecticut	1,554	1,556	-0.2%	0	0	1,554	1,556	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	375	501	-25.2%	0	0	375	501	0	0	0	0
New Hampshire	930	929	0.1%	0	0	930	929	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	13,993	14,190	-1.4%	0	0	13,993	14,190	0	0	0	0
New Jersey	3,018	3,051	-1.1%	0	0	3,018	3,051	0	0	0	0
New York	3,554	3,874	-8.2%	0	0	3,554	3,874	0	0	0	0
Pennsylvania	7,420	7,266	2.1%	0	0	7,420	7,266	0	0	0	0
East North Central	13,648	13,485	1.2%	1,661	1,668	11,987	11,817	0	0	0	0
Illinois	8,860	8,713	1.7%	0	0	8,860	8,713	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,267	2,272	-0.2%	1,661	1,668	606	604	0	0	0	0
Ohio	1,624	1,629	-0.3%	0	0	1,624	1,629	0	0	0	0
Wisconsin	897	871	3.0%	0	0	897	871	0	0	0	0
West North Central	4,214	4,217	-0.1%	3,755	3,760	459	456	0	0	0	0
Iowa	459	456	0.7%	0	0	459	456	0	0	0	0
Kansas	913	910	0.3%	913	910	0	0	0	0	0	0
Minnesota	1,317	967	36.2%	1,317	967	0	0	0	0	0	0
Missouri	924	919	0.5%	924	919	0	0	0	0	0	0
Nebraska	601	964	-37.6%	601	964	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	18,761	17,648	6.3%	17,466	16,435	1,295	1,213	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	2,747	2,621	4.8%	2,747	2,621	0	0	0	0	0	0
Georgia	3,079	3,062	0.5%	3,079	3,062	0	0	0	0	0	0
Maryland	1,295	1,213	6.8%	0	0	1,295	1,213	0	0	0	0
North Carolina	3,881	3,876	0.1%	3,881	3,876	0	0	0	0	0	0
South Carolina	5,023	4,396	14.3%	5,023	4,396	0	0	0	0	0	0
Virginia	2,736	2,480	10.3%	2,736	2,480	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,403	6,413	-0.1%	6,403	6,413	0	0	0	0	0	0
Alabama	3,805	3,570	6.6%	3,805	3,570	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	-14	1,009	-101.3%	-14	1,009	0	0	0	0	0	0
Tennessee	2,612	1,833	42.5%	2,612	1,833	0	0	0	0	0	0
West South Central	6,455	5,266	22.6%	2,653	2,291	3,802	2,975	0	0	0	0
Arkansas	1,050	1,308	-19.8%	1,050	1,308	0	0	0	0	0	0
Louisiana	1,604	983	63.1%	1,604	983	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,802	2,975	27.8%	0	0	3,802	2,975	0	0	0	0
Mountain	2,983	2,986	-0.1%	2,983	2,986	0	0	0	0	0	0
Arizona	2,983	2,986	-0.1%	2,983	2,986	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	2,346	2,443	-4.0%	2,346	2,443	0	0	0	0	0	0
California	1,693	1,584	6.9%	1,693	1,584	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	653	860	-24.1%	653	860	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	71,662	69,634	2.9%	37,268	35,997	34,394	33,637	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 for 2016 are preliminary. Values for 2015 are final. 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 December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	32,751	31,890	2.7%	0	0	32,751	31,890	0	0	0	0
Connecticut	16,575	17,411	-4.8%	0	0	16,575	17,411	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	5,414	4,995	8.4%	0	0	5,414	4,995	0	0	0	0
New Hampshire	10,761	9,484	13.5%	0	0	10,761	9,484	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	154,380	158,381	-2.5%	0	0	154,380	158,381	0	0	0	0
New Jersey	29,885	33,262	-10.2%	0	0	29,885	33,262	0	0	0	0
New York	41,571	44,603	-6.8%	0	0	41,571	44,603	0	0	0	0
Pennsylvania	82,924	80,517	3.0%	0	0	82,924	80,517	0	0	0	0
East North Central	156,761	154,001	1.8%	24,507	23,015	132,254	130,986	0	0	0	0
Illinois	98,240	97,282	1.0%	0	0	98,240	97,282	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	31,552	29,334	7.6%	24,507	23,015	7,045	6,319	0	0	0	0
Ohio	16,817	17,377	-3.2%	0	0	16,817	17,377	0	0	0	0
Wisconsin	10,151	10,008	1.4%	0	0	10,151	10,008	0	0	0	0
West North Central	45,590	46,677	-2.3%	40,888	41,434	4,703	5,243	0	0	0	0
Iowa	4,703	5,243	-10.3%	0	0	4,703	5,243	0	0	0	0
Kansas	8,246	8,630	-4.5%	8,246	8,630	0	0	0	0	0	0
Minnesota	13,861	12,039	15.1%	13,861	12,039	0	0	0	0	0	0
Missouri	9,430	10,440	-9.7%	9,430	10,440	0	0	0	0	0	0
Nebraska	9,351	10,325	-9.4%	9,351	10,325	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	206,905	199,917	3.5%	192,145	185,274	14,760	14,643	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	29,320	28,122	4.3%	29,320	28,122	0	0	0	0	0	0
Georgia	34,481	33,838	1.9%	34,481	33,838	0	0	0	0	0	0
Maryland	14,760	14,643	0.8%	0	0	14,760	14,643	0	0	0	0
North Carolina	42,786	42,097	1.6%	42,786	42,097	0	0	0	0	0	0
South Carolina	55,826	53,156	5.0%	55,826	53,156	0	0	0	0	0	0
Virginia	29,732	28,060	6.0%	29,732	28,060	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	75,377	78,626	-4.1%	75,377	78,626	0	0	0	0	0	0
Alabama	39,902	41,951	-4.9%	39,902	41,951	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	5,897	11,715	-49.7%	5,897	11,715	0	0	0	0	0	0
Tennessee	29,578	24,960	18.5%	29,578	24,960	0	0	0	0	0	0
West South Central	72,652	68,493	6.1%	30,573	29,139	42,079	39,355	0	0	0	0
Arkansas	13,421	13,838	-3.0%	13,421	13,838	0	0	0	0	0	0
Louisiana	17,152	15,301	12.1%	17,152	15,301	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	42,079	39,355	6.9%	0	0	42,079	39,355	0	0	0	0
Mountain	32,377	32,526	-0.5%	32,377	32,526	0	0	0	0	0	0
Arizona	32,377	32,526	-0.5%	32,377	32,526	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	28,533	26,666	7.0%	28,533	26,666	0	0	0	0	0	0
California	18,908	18,505	2.2%	18,908	18,505	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	9,626	8,161	17.9%	9,626	8,161	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	805,327	797,178	1.0%	424,400	416,680	380,928	380,498	0	0	0	0

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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 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	485	703	-31.0%	64	110	394	554	NM	1	27	39
Connecticut	NM	30	NM	NM	2	NM	28	0	0	0	0
Maine	226	290	-22.3%	0	0	199	253	0	0	27	38
Massachusetts	62	103	-40.2%	NM	25	49	77	NM	1	NM	1
New Hampshire	104	143	-26.8%	24	35	81	108	0	0	0	0
Rhode Island	NM	0	NM	0	0	NM	0	0	0	0	0
Vermont	76	137	-44.5%	NM	48	49	89	0	0	0	0
Middle Atlantic	2,424	2,571	-5.7%	1,939	1,974	480	592	NM	0	NM	6
New Jersey	NM	1	NM	0	0	NM	1	0	0	0	0
New York	2,200	2,324	-5.3%	1,936	1,968	260	350	NM	0	NM	6
Pennsylvania	223	247	-9.5%	NM	6	220	241	0	0	0	0
East North Central	459	572	-19.8%	400	494	40	56	NM	0	NM	21
Illinois	NM	13	NM	NM	4	NM	8	NM	0	0	0
Indiana	29	33	-12.9%	29	33	0	0	0	0	0	0
Michigan	146	237	-38.4%	135	219	NM	13	0	0	NM	5
Ohio	39	53	-25.8%	24	28	NM	25	0	0	0	0
Wisconsin	235	237	-0.5%	208	210	NM	10	0	0	NM	16
West North Central	870	1,011	-13.9%	837	968	NM	27	0	0	NM	16
Iowa	99	76	30.7%	99	75	NM	1	0	0	0	0
Kansas	NM	2	NM	0	0	NM	2	0	0	0	0
Minnesota	88	116	-24.1%	57	75	NM	25	0	0	NM	16
Missouri	38	263	-85.6%	38	263	0	0	0	0	0	0
Nebraska	171	133	28.4%	171	133	0	0	0	0	0	0
North Dakota	147	137	7.0%	147	137	0	0	0	0	0	0
South Dakota	326	283	14.9%	326	283	0	0	0	0	0	0
South Atlantic	902	2,125	-57.5%	659	1,852	189	216	NM	2	54	56
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	35	NM	NM	35	0	0	0	0	0	0
Georgia	204	386	-47.3%	201	382	NM	1	0	0	NM	3
Maryland	137	149	-8.2%	0	0	137	149	0	0	0	0
North Carolina	204	778	-73.7%	201	769	NM	7	NM	2	NM	0
South Carolina	124	461	-73.2%	120	449	NM	12	NM	0	0	0
Virginia	81	183	-55.7%	75	170	NM	12	0	0	NM	2
West Virginia	136	133	2.3%	NM	47	40	35	0	0	51	51
East South Central	1,354	3,011	-55.0%	1,353	3,010	NM	1	0	0	0	0
Alabama	480	1,473	-67.4%	480	1,473	0	0	0	0	0	0
Kentucky	310	365	-15.2%	309	364	NM	1	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	564	1,173	-51.9%	564	1,173	0	0	0	0	0	0
West South Central	325	1,052	-69.1%	256	927	69	125	0	0	0	0
Arkansas	148	410	-63.8%	145	404	NM	6	0	0	0	0
Louisiana	63	116	-45.8%	0	0	63	116	0	0	0	0
Oklahoma	72	443	-83.7%	72	443	0	0	0	0	0	0
Texas	41	83	-50.3%	39	80	NM	3	0	0	0	0
Mountain	2,774	2,349	18.1%	2,694	2,285	79	63	NM	1	0	0
Arizona	593	532	11.5%	593	532	0	0	0	0	0	0
Colorado	158	184	-14.0%	140	163	NM	21	NM	1	0	0
Idaho	680	498	36.5%	635	471	NM	27	0	0	0	0
Montana	1,139	865	31.6%	1,125	853	NM	13	0	0	0	0
Nevada	84	163	-48.1%	83	161	NM	1	0	0	0	0
New Mexico	NM	8	NM	NM	8	0	0	0	0	0	0
Utah	73	59	22.9%	72	58	NM	1	0	0	0	0
Wyoming	37	40	-6.7%	36	39	NM	0	0	0	0	0
Pacific Contiguous	12,778	9,579	33.4%	12,619	9,496	157	82	NM	0	0	0
California	2,306	860	168.0%	2,201	824	103	36	NM	0	0	0
Oregon	3,148	2,825	11.4%	3,123	2,803	NM	22	0	0	0	0
Washington	7,325	5,894	24.3%	7,295	5,870	NM	24	0	0	0	0
Pacific Noncontiguous	166	192	-13.6%	155	180	5	5	0	0	NM	7
Alaska	153	177	-13.8%	153	177	0	0	0	0	0	0
Hawaii	NM	15	NM	NM	3	5	5	0	0	NM	7
U.S. Total	22,538	23,166	-2.7%	20,976	21,296	1,434	1,721	NM	4	123	145

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NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2016 are preliminary. Values for 2015 are final. 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 December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	6,204	6,903	-10.1%	876	934	4,992	5,568	NM	6	330	394
Connecticut	286	302	-5.6%	NM	24	263	278	0	0	0	0
Maine	2,968	3,361	-11.7%	0	0	2,642	2,971	0	0	325	390
Massachusetts	770	827	-6.9%	199	201	562	616	NM	6	NM	5
New Hampshire	1,121	1,270	-11.8%	278	309	843	962	0	0	0	0
Rhode Island	NM	3	NM	0	0	NM	3	0	0	0	0
Vermont	1,056	1,139	-7.3%	378	401	679	739	0	0	0	0
Middle Atlantic	29,000	28,628	1.3%	23,177	22,288	5,763	6,273	NM	5	56	62
New Jersey	NM	10	NM	0	0	NM	10	0	0	0	0
New York	26,604	26,015	2.3%	23,119	22,225	3,425	3,723	NM	5	56	62
Pennsylvania	2,376	2,604	-8.7%	58	63	2,318	2,541	0	0	0	0
East North Central	5,014	4,802	4.4%	4,350	4,129	468	478	NM	2	195	193
Illinois	129	124	3.4%	NM	42	77	81	NM	2	0	0
Indiana	415	381	8.9%	415	381	0	0	0	0	0	0
Michigan	1,548	1,499	3.3%	1,426	1,387	92	83	0	0	NM	30
Ohio	517	457	13.3%	324	245	193	212	0	0	0	0
Wisconsin	2,405	2,341	2.7%	2,135	2,074	105	103	0	0	165	163
West North Central	10,867	12,053	-9.8%	10,521	11,729	218	209	0	0	129	115
Iowa	956	960	-0.5%	949	954	NM	6	0	0	0	0
Kansas	NM	19	NM	0	0	NM	19	0	0	0	0
Minnesota	884	849	4.2%	563	551	193	183	0	0	129	115
Missouri	1,237	1,595	-22.4%	1,237	1,595	0	0	0	0	0	0
Nebraska	1,725	1,685	2.4%	1,725	1,685	0	0	0	0	0	0
North Dakota	1,912	2,094	-8.7%	1,912	2,094	0	0	0	0	0	0
South Dakota	4,134	4,850	-14.8%	4,134	4,850	0	0	0	0	0	0
South Atlantic	14,563	14,701	-0.9%	12,090	11,940	1,926	2,161	NM	13	532	586
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	219	244	-10.2%	219	244	0	0	0	0	0	0
Georgia	3,082	2,984	3.3%	3,053	2,952	NM	10	0	0	NM	21
Maryland	1,397	1,623	-14.0%	0	0	1,397	1,623	0	0	0	0
North Carolina	4,529	4,742	-4.5%	4,471	4,688	NM	44	NM	11	NM	0
South Carolina	2,399	2,564	-6.4%	2,336	2,497	61	65	NM	2	0	0
Virginia	1,526	1,158	31.7%	1,446	1,072	67	74	0	0	NM	12
West Virginia	1,410	1,385	1.8%	566	487	349	345	0	0	495	553
East South Central	18,589	22,847	-18.6%	18,582	22,838	NM	9	0	0	0	0
Alabama	7,721	9,862	-21.7%	7,721	9,862	0	0	0	0	0	0
Kentucky	3,450	3,403	1.4%	3,443	3,395	NM	9	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	7,418	9,581	-22.6%	7,418	9,581	0	0	0	0	0	0
West South Central	8,006	8,189	-2.2%	6,820	7,103	1,185	1,086	0	0	0	0
Arkansas	3,418	3,569	-4.2%	3,370	3,521	NM	49	0	0	0	0
Louisiana	1,103	999	10.4%	0	0	1,103	999	0	0	0	0
Oklahoma	2,382	2,664	-10.6%	2,382	2,664	0	0	0	0	0	0
Texas	1,103	956	15.4%	1,069	918	NM	38	0	0	0	0
Mountain	32,432	30,801	5.3%	31,222	29,701	1,200	1,093	NM	6	0	0
Arizona	7,158	6,536	9.5%	7,158	6,536	0	0	0	0	0	0
Colorado	1,918	1,620	18.4%	1,708	1,430	200	184	NM	6	0	0
Idaho	9,446	8,757	7.9%	8,631	8,025	815	732	0	0	0	0
Montana	10,183	9,888	3.0%	10,037	9,745	146	143	0	0	0	0
Nevada	1,767	2,264	-22.0%	1,748	2,249	NM	15	0	0	0	0
New Mexico	146	99	46.7%	146	99	0	0	0	0	0	0
Utah	816	769	6.2%	807	760	NM	9	0	0	0	0
Wyoming	998	868	14.9%	987	858	NM	10	0	0	0	0
Pacific Contiguous	139,487	118,467	17.7%	137,439	117,386	2,025	1,078	NM	3	0	0
California	28,945	13,808	109.6%	27,477	13,245	1,444	560	NM	3	0	0
Oregon	33,700	31,254	7.8%	33,425	31,016	275	238	0	0	0	0
Washington	76,843	73,405	4.7%	76,537	73,125	306	280	0	0	0	0
Pacific Noncontiguous	1,667	1,690	-1.4%	1,571	1,591	36	41	0	0	59	59
Alaska	1,549	1,569	-1.2%	1,549	1,569	0	0	0	0	0	0
Hawaii	118	121	-3.0%	NM	22	36	41	0	0	59	59
U.S. Total	265,829	249,080	6.7%	246,649	229,640	17,821	17,996	59	35	1,300	1,410

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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 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	1,032	914	12.9%	73	83	828	721	14	14	117	96
Connecticut	77	79	-3.2%	NM	0	76	79	0	0	0	0
Maine	485	402	20.5%	0	0	360	299	7	8	117	96
Massachusetts	170	150	13.6%	8	7	159	140	NM	3	NM	0
New Hampshire	198	189	5.1%	25	32	171	154	NM	3	0	0
Rhode Island	30	20	47.3%	0	0	29	20	NM	1	0	0
Vermont	73	74	-1.8%	40	45	33	29	NM	0	0	0
Middle Atlantic	1,550	1,292	19.9%	NM	2	1,439	1,178	44	54	62	58
New Jersey	138	112	22.7%	NM	2	111	90	22	20	NM	0
New York	750	610	22.9%	0	0	713	567	18	19	19	24
Pennsylvania	662	570	16.1%	0	0	615	521	NM	15	43	34
East North Central	3,281	3,191	2.8%	480	371	2,643	2,668	15	20	143	132
Illinois	1,239	1,367	-9.4%	NM	4	1,235	1,363	NM	1	0	0
Indiana	594	625	-5.0%	31	25	556	593	NM	2	6	6
Michigan	866	695	24.6%	271	198	526	425	9	14	60	58
Ohio	246	209	17.7%	NM	3	215	182	NM	1	27	23
Wisconsin	336	295	13.7%	172	142	111	105	NM	3	50	46
West North Central	7,190	5,327	35.0%	2,479	1,844	4,642	3,405	14	10	55	67
Iowa	2,430	1,852	31.2%	1,540	1,145	882	699	NM	2	5	5
Kansas	1,228	1,250	-1.8%	56	93	1,172	1,157	0	0	0	0
Minnesota	1,509	1,073	40.6%	346	278	1,109	729	6	4	49	62
Missouri	133	127	4.8%	4	3	125	122	4	2	NM	0
Nebraska	543	322	68.7%	29	25	513	295	NM	1	0	0
North Dakota	999	520	91.9%	393	227	605	294	0	0	NM	0
South Dakota	349	182	91.2%	111	73	238	109	0	0	0	0
South Atlantic	2,442	2,088	17.0%	337	156	1,163	932	35	47	907	954
Delaware	9	11	-17.8%	NM	0	7	9	NM	1	NM	2
District of Columbia	0	5	-100.0%	0	0	0	5	0	0	0	0
Florida	533	431	23.7%	115	14	226	218	NM	4	188	194
Georgia	521	456	14.3%	13	3	155	83	NM	1	352	370
Maryland	134	104	28.9%	NM	0	121	95	NM	1	11	8
North Carolina	439	414	6.0%	15	6	302	274	11	19	111	115
South Carolina	191	192	-0.9%	42	32	37	34	0	0	111	126
Virginia	392	337	16.4%	150	100	92	77	17	20	133	140
West Virginia	222	137	62.6%	0	0	222	137	0	0	0	0
East South Central	541	542	-0.2%	9	6	49	41	NM	0	483	494
Alabama	285	290	-1.8%	0	0	31	23	0	0	254	267
Kentucky	38	35	8.7%	9	6	NM	1	0	0	29	28
Mississippi	123	118	4.8%	0	0	NM	1	0	0	122	117
Tennessee	95	99	-4.5%	0	0	16	17	NM	0	78	82
West South Central	7,701	7,006	9.9%	149	161	7,116	6,413	7	8	429	423
Arkansas	131	117	12.5%	NM	0	9	7	NM	0	121	109
Louisiana	218	241	-9.8%	0	0	9	6	0	0	209	235
Oklahoma	1,795	1,473	21.9%	130	134	1,640	1,309	0	0	26	29
Texas	5,557	5,175	7.4%	19	28	5,458	5,091	6	7	73	50
Mountain	3,589	3,237	10.9%	364	350	3,182	2,843	7	9	35	35
Arizona	293	279	5.1%	24	33	269	245	NM	1	0	0
Colorado	925	903	2.5%	29	11	895	889	NM	2	NM	0
Idaho	338	338	0.0%	NM	1	303	303	NM	1	33	33
Montana	243	209	16.3%	27	22	214	185	0	0	NM	2
Nevada	575	462	24.4%	NM	1	570	458	NM	3	NM	0
New Mexico	428	419	2.0%	11	14	416	405	NM	1	0	0
Utah	240	125	92.3%	23	23	217	101	NM	1	0	0
Wyoming	546	501	9.1%	247	245	299	256	0	0	0	0
Pacific Contiguous	4,977	4,876	2.1%	654	685	4,032	3,910	77	85	214	195
California	3,502	3,323	5.4%	155	141	3,226	3,063	74	82	47	37
Oregon	622	684	-9.1%	75	90	500	544	NM	2	46	48
Washington	853	869	-1.9%	423	455	306	303	NM	1	122	110
Pacific Noncontiguous	124	129	-4.2%	15	15	81	90	21	19	6	5
Alaska	22	20	8.9%	12	11	6	6	NM	4	NM	0
Hawaii	102	109	-6.6%	NM	5	75	85	17	16	6	4
U.S. Total	32,427	28,602	13.4%	4,564	3,675	25,176	22,202	233	265	2,453	2,460

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

by State, by Sector, Year-to-Date through December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	10,710	10,208	4.9%	883	890	8,539	7,900	165	168	1,123	1,249
Connecticut	911	805	13.2%	NM	0	907	801	0	4	0	0
Maine	4,440	4,449	-0.2%	0	0	3,231	3,112	89	91	1,120	1,246
Massachusetts	2,138	1,833	16.6%	79	76	2,019	1,725	37	29	NM	3
New Hampshire	2,122	2,048	3.6%	308	321	1,784	1,691	30	35	0	0
Rhode Island	258	236	9.3%	0	0	250	229	8	7	0	0
Vermont	842	838	0.5%	492	494	348	342	NM	2	0	0
Middle Atlantic	14,375	13,734	4.7%	109	63	12,877	12,227	643	681	746	764
New Jersey	2,027	1,595	27.1%	109	63	1,584	1,226	330	304	NM	1
New York	6,412	6,319	1.5%	0	0	5,992	5,886	214	215	205	218
Pennsylvania	5,935	5,821	2.0%	0	0	5,300	5,114	99	162	537	544
East North Central	29,143	28,944	0.7%	3,694	3,700	23,617	23,292	218	274	1,615	1,677
Illinois	11,259	11,323	-0.6%	38	34	11,216	11,284	NM	5	0	0
Indiana	5,623	5,118	9.9%	361	308	5,176	4,716	19	22	68	71
Michigan	7,213	7,283	-1.0%	1,965	1,976	4,430	4,431	144	201	675	675
Ohio	2,102	2,058	2.1%	29	27	1,747	1,673	15	11	311	347
Wisconsin	2,946	3,162	-6.8%	1,302	1,355	1,048	1,187	35	36	562	584
West North Central	63,395	54,218	16.9%	21,804	17,933	40,811	35,497	157	135	623	652
Iowa	20,305	18,131	12.0%	12,805	10,752	7,399	7,272	37	40	63	67
Kansas	14,187	11,062	28.2%	830	883	13,348	10,179	0	0	8	0
Minnesota	12,464	11,588	7.6%	3,039	2,531	8,832	8,428	55	50	538	579
Missouri	1,310	1,179	11.1%	44	42	1,213	1,105	50	30	3	3
Nebraska	3,893	3,251	19.7%	282	272	3,596	2,963	15	16	0	0
North Dakota	8,091	6,509	24.3%	3,814	2,622	4,265	3,883	0	0	11	4
South Dakota	3,146	2,498	25.9%	989	831	2,156	1,667	0	0	0	0
South Atlantic	26,193	23,017	13.8%	2,421	1,948	12,876	9,958	494	466	10,401	10,644
Delaware	136	130	4.4%	7	7	108	101	7	6	13	16
District of Columbia	0	31	-100.0%	0	0	0	31	0	0	0	0
Florida	4,913	5,143	-4.5%	361	278	2,492	2,709	47	46	2,012	2,110
Georgia	5,563	4,863	14.4%	102	4	1,502	802	9	11	3,950	4,047
Maryland	1,338	1,068	25.3%	10	8	1,185	938	31	21	112	100
North Carolina	6,283	3,963	58.5%	251	12	4,624	2,470	188	153	1,220	1,328
South Carolina	2,378	2,294	3.7%	420	437	415	410	0	0	1,542	1,446
Virginia	4,146	4,144	0.0%	1,270	1,202	1,113	1,116	211	229	1,551	1,597
West Virginia	1,437	1,381	4.0%	0	0	1,437	1,381	0	0	0	0
East South Central	6,373	6,363	0.2%	99	85	523	471	NM	3	5,747	5,804
Alabama	3,289	3,289	0.0%	0	0	304	256	0	0	2,986	3,034
Kentucky	464	441	5.1%	99	85	7	7	0	0	358	349
Mississippi	1,494	1,507	-0.8%	0	0	13	13	0	0	1,480	1,494
Tennessee	1,126	1,126	0.0%	0	0	199	195	NM	3	924	928
West South Central	84,000	65,190	28.9%	1,714	1,833	77,099	58,452	84	70	5,103	4,834
Arkansas	1,432	1,442	-0.7%	NM	0	128	86	4	4	1,298	1,352
Louisiana	2,687	2,705	-0.6%	0	0	95	89	0	0	2,593	2,616
Oklahoma	19,844	14,369	38.1%	1,436	1,427	18,108	12,618	0	0	300	324
Texas	60,037	46,674	28.6%	276	406	58,769	45,659	80	66	912	543
Mountain	37,762	29,642	27.4%	3,530	3,124	33,695	26,005	146	110	390	404
Arizona	4,515	4,135	9.2%	518	532	3,976	3,581	21	22	0	0
Colorado	10,063	7,807	28.9%	140	135	9,897	7,653	23	17	NM	3
Idaho	3,138	2,947	6.5%	13	12	2,755	2,549	8	9	363	377
Montana	2,151	1,986	8.3%	231	217	1,899	1,748	0	0	22	21
Nevada	6,764	5,103	32.5%	35	2	6,649	5,054	77	45	NM	3
New Mexico	4,452	2,734	62.8%	249	158	4,199	2,573	NM	3	0	0
Utah	2,315	1,172	97.4%	257	260	2,045	898	13	15	0	0
Wyoming	4,363	3,757	16.1%	2,087	1,808	2,276	1,949	0	0	0	0
Pacific Contiguous	69,745	62,413	11.7%	8,410	7,725	57,862	51,090	1,001	1,073	2,472	2,524
California	51,263	45,395	12.9%	2,254	2,178	47,496	41,668	967	1,032	546	517
Oregon	8,422	7,950	5.9%	1,353	1,308	6,545	5,996	17	26	506	621
Washington	10,059	9,067	10.9%	4,803	4,239	3,820	3,427	17	16	1,420	1,386
Pacific Noncontiguous	1,533	1,433	7.0%	194	182	1,003	927	251	240	85	84
Alaska	215	215	0.3%	108	105	55	55	46	50	5	5
Hawaii	1,318	1,218	8.2%	86	77	947	873	205	189	80	79
U.S. Total	343,228	295,161	16.3%	42,859	37,485	268,902	225,820	3,161	3,220	28,306	28,635

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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, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	-42	-37	14.1%	0	0	-42	-37	0	0	0	0
Connecticut	2	0	452.9%	0	0	2	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-45	-37	19.4%	0	0	-45	-37	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	-116	-77	51.0%	-63	-43	-53	-34	0	0	0	0
New Jersey	-15	-9	63.6%	-15	-9	0	0	0	0	0	0
New York	-47	-33	41.7%	-47	-33	0	0	0	0	0	0
Pennsylvania	-53	-34	56.6%	0	0	-53	-34	0	0	0	0
East North Central	-58	-32	82.3%	-58	-32	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	-58	-32	82.3%	-58	-32	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	-16	77	-120.9%	-16	77	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	-16	77	-120.9%	-16	77	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	-274	-129	112.3%	-274	-129	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	-142	11	NM	-142	11	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	-63	-56	12.6%	-63	-56	0	0	0	0	0	0
Virginia	-69	-84	-17.7%	-69	-84	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-42	-48	-11.9%	-42	-48	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	-42	-48	-11.9%	-42	-48	0	0	0	0	0	0
West South Central	-8	0	NM	-8	0	0	0	0	0	0	0
Arkansas	0	3	-93.6%	0	3	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-8	-2	246.9%	-8	-2	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-34	-25	36.7%	-34	-25	0	0	0	0	0	0
Arizona	-10	-2	397.0%	-10	-2	0	0	0	0	0	0
Colorado	-24	-23	6.3%	-24	-23	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	-163	-11	NM	-163	-11	0	0	0	0	0	0
California	-162	-13	NM	-162	-13	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-1	2	-126.9%	-1	2	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	-753	-281	168.2%	-657	-210	-96	-71	0	0	0	0

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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.B. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, Year-to-Date through December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	-495	-478	3.6%	0	0	-495	-478	0	0	0	0
Connecticut	6	-4	-250.7%	0	0	6	-4	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-500	-474	5.6%	0	0	-500	-474	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	-1,237	-1,101	12.3%	-675	-592	-562	-509	0	0	0	0
New Jersey	-204	-170	20.3%	-204	-170	0	0	0	0	0	0
New York	-471	-423	11.4%	-471	-423	0	0	0	0	0	0
Pennsylvania	-562	-509	10.4%	0	0	-562	-509	0	0	0	0
East North Central	-752	-481	56.3%	-752	-481	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	-752	-481	56.3%	-752	-481	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	179	348	-48.5%	179	348	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	179	348	-48.5%	179	348	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	-3,132	-2,755	13.7%	-3,132	-2,755	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	-993	-815	21.9%	-993	-815	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	-977	-904	8.0%	-977	-904	0	0	0	0	0	0
Virginia	-1,163	-1,036	12.2%	-1,163	-1,036	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-704	-531	32.6%	-704	-531	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	-704	-531	32.6%	-704	-531	0	0	0	0	0	0
West South Central	-49	-41	19.0%	-49	-41	0	0	0	0	0	0
Arkansas	39	32	22.6%	39	32	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-87	-72	20.6%	-87	-72	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-236	-205	14.7%	-236	-205	0	0	0	0	0	0
Arizona	59	73	-19.8%	59	73	0	0	0	0	0	0
Colorado	-294	-279	5.6%	-294	-279	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	-262	153	-271.4%	-262	153	0	0	0	0	0	0
California	-259	113	-330.2%	-259	113	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-2	40	-105.8%	-2	40	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	-6,686	-5,091	31.3%	-5,629	-4,105	-1,057	-987	0	0	0	0

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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 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	166	162	2.2%	0	0	149	145	8	7	9	10
Connecticut	47	52	-9.2%	0	0	47	52	0	0	0	0
Maine	33	32	2.3%	0	0	16	15	8	7	9	10
Massachusetts	81	74	9.3%	0	0	81	74	0	0	0	0
New Hampshire	5	4	18.9%	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	201	220	-8.8%	0	0	170	173	31	40	0	6
New Jersey	50	57	-12.3%	0	0	36	37	13	13	0	6
New York	79	81	-3.0%	0	0	62	63	17	18	0	0
Pennsylvania	72	82	-12.2%	0	0	72	73	0	9	0	0
East North Central	66	67	-2.1%	1	3	13	12	10	15	41	38
Illinois	19	0	NM	0	0	0	-1	0	0	20	0
Indiana	18	33	-44.3%	0	0	0	0	NM	2	17	31
Michigan	23	30	-25.7%	0	2	13	13	9	13	1	2
Ohio	NM	0	NM	0	0	NM	-1	0	0	1	1
Wisconsin	4	4	-8.5%	1	2	0	0	0	0	NM	3
West North Central	38	44	-13.9%	18	23	13	13	NM	3	NM	6
Iowa	NM	2	NM	0	0	0	0	0	0	NM	2
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	34	33	2.9%	15	13	13	13	NM	3	NM	4
Missouri	0	6	-95.9%	0	6	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	4	-8.7%	4	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	410	410	0.1%	0	0	229	211	16	18	165	180
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	278	266	4.3%	0	0	145	126	0	0	132	140
Georgia	6	10	-37.6%	0	0	0	0	0	0	6	10
Maryland	25	28	-10.4%	0	0	25	28	0	0	0	0
North Carolina	55	62	-11.5%	0	0	32	35	0	0	23	27
South Carolina	4	4	18.4%	0	0	NM	0	0	0	4	3
Virginia	42	40	6.8%	0	0	27	22	16	18	0	0
West Virginia	-1	0	--	0	0	-1	0	0	0	0	0
East South Central	6	11	-44.4%	4	8	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	4	8	-51.4%	4	8	0	0	0	0	0	0
Mississippi	NM	1	NM	0	0	0	0	0	0	NM	1
Tennessee	1	2	-20.3%	0	0	0	0	0	0	1	2
West South Central	104	145	-28.5%	0	0	4	9	0	0	100	136
Arkansas	1	1	89.3%	0	0	0	0	0	0	1	1
Louisiana	47	78	-39.5%	0	0	0	0	0	0	47	78
Oklahoma	4	1	229.3%	0	0	3	0	0	0	NM	1
Texas	51	65	-20.7%	0	0	NM	9	0	0	50	56
Mountain	54	54	0.2%	NM	0	29	20	0	0	25	34
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	NM	5	NM	0	0	NM	1	0	0	NM	3
Idaho	6	7	-14.0%	0	0	0	0	0	0	6	7
Montana	28	19	45.6%	0	0	28	19	0	0	0	0
Nevada	0	0	-100.0%	0	0	0	0	0	0	0	0
New Mexico	NM	0	NM	NM	0	0	0	0	0	0	0
Utah	16	17	-3.6%	0	0	NM	0	0	0	16	17
Wyoming	0	6	-100.0%	0	0	0	0	0	0	0	6
Pacific Contiguous	82	86	-5.4%	NM	0	29	24	0	0	53	63
California	72	75	-3.5%	NM	0	19	19	0	0	53	56
Oregon	4	3	19.7%	0	0	4	4	0	0	0	0
Washington	6	8	-33.2%	0	0	6	2	0	0	0	7
Pacific Noncontiguous	18	29	-36.9%	0	14	2	0	17	15	0	0
Alaska	0	0	-100.0%	0	0	0	0	0	0	0	0
Hawaii	18	29	-37.3%	0	14	2	0	17	15	0	0
U.S. Total	1,144	1,228	-6.9%	24	49	637	607	83	98	400	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 1.13.B. Utility Scale Facility Net Generation from Other Energy Sources

by State, by Sector, Year-to-Date through December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	1,893	1,814	4.3%	0	0	1,703	1,617	92	89	98	108
Connecticut	591	556	6.3%	0	0	591	553	0	3	0	0
Maine	361	340	6.1%	0	0	171	146	92	86	98	108
Massachusetts	886	868	2.1%	0	0	886	868	0	0	0	0
New Hampshire	54	50	9.5%	0	0	54	50	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	2,320	2,400	-3.3%	0	0	1,925	1,888	395	445	0	67
New Jersey	546	582	-6.3%	0	0	403	371	143	145	0	67
New York	911	919	-0.9%	0	0	699	721	212	198	0	0
Pennsylvania	864	899	-3.9%	0	0	823	796	41	102	0	0
East North Central	996	1,132	-12.0%	29	56	155	147	160	212	652	717
Illinois	234	248	-5.8%	0	0	-5	-5	0	0	239	253
Indiana	362	420	-13.9%	0	0	0	0	18	20	344	400
Michigan	320	405	-21.0%	11	32	149	160	142	192	17	21
Ohio	23	-3	-832.8%	0	-3	11	-8	0	0	12	8
Wisconsin	58	63	-7.6%	18	27	0	0	0	0	40	35
West North Central	461	495	-6.8%	230	273	143	132	34	34	54	56
Iowa	6	5	15.7%	0	0	0	0	0	0	6	5
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	405	390	4.0%	180	173	143	132	34	34	48	51
Missouri	9	58	-84.4%	9	58	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	41	42	-3.1%	41	42	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	4,782	4,621	3.5%	0	0	2,505	2,334	198	208	2,080	2,079
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	3,188	3,021	5.5%	0	0	1,524	1,372	0	0	1,664	1,649
Georgia	98	87	12.0%	0	0	0	0	0	0	98	87
Maryland	325	318	2.1%	0	0	324	318	NM	0	0	0
North Carolina	679	685	-1.0%	0	0	401	386	0	0	278	299
South Carolina	47	49	-4.4%	0	0	6	4	0	0	41	44
Virginia	455	462	-1.5%	0	0	257	253	198	208	0	0
West Virginia	-7	0	--	0	0	-7	0	0	0	0	0
East South Central	72	78	-7.7%	50	52	0	0	0	0	22	27
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	50	52	-3.4%	50	52	0	0	0	0	0	0
Mississippi	6	6	-7.9%	0	0	0	0	0	0	6	6
Tennessee	17	21	-18.6%	0	0	0	0	0	0	17	21
West South Central	1,409	1,546	-8.9%	0	0	35	91	0	0	1,374	1,455
Arkansas	6	12	-53.5%	0	0	0	0	0	0	6	12
Louisiana	662	788	-16.0%	0	0	0	0	0	0	662	788
Oklahoma	38	11	231.0%	0	0	22	0	0	0	15	11
Texas	703	734	-4.3%	0	0	13	91	0	0	690	644
Mountain	629	621	1.3%	NM	2	344	319	0	0	284	301
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	50	52	-4.6%	0	0	13	12	0	0	36	40
Idaho	76	81	-6.3%	0	0	0	0	0	0	76	81
Montana	327	303	8.0%	0	0	327	303	0	0	0	0
Nevada	NM	1	NM	NM	1	0	0	0	0	0	0
New Mexico	NM	1	NM	NM	1	0	0	0	0	0	0
Utah	175	106	65.9%	0	0	NM	4	0	0	172	102
Wyoming	0	78	-100.0%	0	0	0	0	0	0	0	78
Pacific Contiguous	911	953	-4.5%	NM	-2	304	303	0	0	605	652
California	801	812	-1.3%	NM	-1	195	207	0	0	605	606
Oregon	47	42	12.3%	NM	0	47	42	0	0	0	0
Washington	63	100	-37.3%	0	0	63	54	0	0	0	46
Pacific Noncontiguous	210	367	-42.8%	NM	177	12	8	197	182	0	0
Alaska	NM	-2	NM	NM	-2	0	0	0	0	0	0
Hawaii	209	369	-43.3%	0	180	12	8	197	182	0	0
U.S. Total	13,683	14,028	-2.5%	312	558	7,126	6,838	1,076	1,170	5,169	5,462

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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.A. Utility Scale Facility Net Generation from Wind by State, by Sector, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	326	220	48.4%	20	22	302	195	NM	3	NM	0
Connecticut	NM	0	--	0	0	NM	0	0	0	0	0
Maine	209	136	53.5%	0	0	209	136	0	0	0	0
Massachusetts	26	20	33.3%	7	6	16	11	NM	2	NM	0
New Hampshire	50	37	35.0%	0	0	50	37	0	0	0	0
Rhode Island	12	1	NM	0	0	11	0	NM	1	0	0
Vermont	28	26	7.4%	13	16	15	10	0	0	0	0
Middle Atlantic	993	764	29.9%	0	0	993	764	0	0	NM	0
New Jersey	NM	2	NM	0	0	NM	2	0	0	0	0
New York	536	401	33.7%	0	0	536	401	0	0	NM	0
Pennsylvania	455	361	25.9%	0	0	455	361	0	0	0	0
East North Central	2,739	2,714	0.9%	405	312	2,326	2,397	NM	1	NM	5
Illinois	1,186	1,316	-9.9%	NM	2	1,184	1,313	NM	1	0	0
Indiana	541	580	-6.7%	0	0	541	579	NM	0	0	0
Michigan	638	496	28.7%	270	198	368	297	0	0	0	0
Ohio	176	148	18.5%	NM	2	168	143	NM	0	NM	4
Wisconsin	199	175	14.0%	132	110	66	64	0	0	NM	1
West North Central	6,971	5,123	36.1%	2,435	1,803	4,532	3,317	NM	3	0	0
Iowa	2,408	1,838	31.0%	1,537	1,145	870	692	NM	0	0	0
Kansas	1,222	1,245	-1.8%	56	93	1,166	1,151	0	0	0	0
Minnesota	1,342	908	47.8%	314	247	1,024	658	NM	3	0	0
Missouri	118	117	0.5%	0	0	118	117	0	0	0	0
Nebraska	535	313	71.0%	23	18	512	295	0	0	0	0
North Dakota	998	520	91.9%	393	227	605	294	0	0	0	0
South Dakota	348	182	91.2%	111	73	237	109	0	0	0	0
South Atlantic	304	192	58.4%	0	0	304	191	NM	1	0	0
Delaware	NM	1	NM	0	0	0	0	NM	1	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	76	55	37.9%	0	0	76	55	0	0	0	0
North Carolina	6	0	--	0	0	6	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	222	136	62.8%	0	0	222	136	0	0	0	0
East South Central	4	8	-52.6%	0	0	4	8	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	4	8	-52.6%	0	0	4	8	0	0	0	0
West South Central	7,131	6,426	11.0%	148	161	6,979	6,261	NM	3	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	1,768	1,442	22.6%	129	134	1,639	1,308	0	0	0	0
Texas	5,363	4,984	7.6%	19	28	5,340	4,953	NM	3	0	0
Mountain	2,488	2,383	4.4%	304	279	2,183	2,102	NM	1	NM	0
Arizona	49	55	-11.2%	0	0	49	55	0	0	0	0
Colorado	873	871	0.2%	29	11	843	859	NM	0	NM	0
Idaho	271	278	-2.5%	0	0	271	278	0	0	0	0
Montana	241	207	16.5%	27	22	214	185	0	0	0	0
Nevada	35	33	8.2%	0	0	35	33	0	0	0	0
New Mexico	373	375	-0.6%	0	0	373	375	NM	1	0	0
Utah	98	62	58.9%	0	0	98	62	0	0	0	0
Wyoming	546	501	9.1%	247	245	299	256	0	0	0	0
Pacific Contiguous	1,973	2,191	-10.0%	486	517	1,486	1,673	NM	0	NM	0
California	799	917	-12.9%	40	25	758	891	NM	0	NM	0
Oregon	500	567	-11.8%	67	83	433	484	0	0	0	0
Washington	674	707	-4.7%	378	409	295	298	0	0	0	0
Pacific Noncontiguous	62	79	-21.3%	12	11	50	68	0	0	0	0
Alaska	18	16	9.6%	12	11	6	6	0	0	0	0
Hawaii	44	62	-29.3%	0	0	44	62	0	0	0	0
U.S. Total	22,991	20,098	14.4%	3,810	3,104	19,159	16,976	13	12	8	6

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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 December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	2,638	2,269	16.2%	242	267	2,357	1,967	36	33	NM	3
Connecticut	14	0	--	0	0	14	0	0	0	0	0
Maine	1,614	1,296	24.6%	0	0	1,614	1,296	0	0	0	0
Massachusetts	237	215	10.2%	63	62	143	124	28	26	NM	3
New Hampshire	447	423	5.4%	0	0	447	423	0	0	0	0
Rhode Island	33	10	228.4%	0	0	25	3	8	7	0	0
Vermont	293	325	-9.8%	179	205	115	121	0	0	0	0
Middle Atlantic	7,440	7,351	1.2%	0	0	7,436	7,349	0	0	NM	2
New Jersey	22	22	3.0%	0	0	22	22	0	0	0	0
New York	3,946	3,977	-0.8%	0	0	3,942	3,974	0	0	NM	2
Pennsylvania	3,472	3,353	3.6%	0	0	3,472	3,353	0	0	0	0
East North Central	23,000	22,852	0.6%	2,948	3,053	19,977	19,751	11	6	63	41
Illinois	10,627	10,747	-1.1%	14	14	10,608	10,728	NM	5	0	0
Indiana	4,903	4,515	8.6%	0	0	4,902	4,514	NM	1	0	0
Michigan	4,693	4,797	-2.2%	1,948	1,975	2,745	2,822	0	0	0	0
Ohio	1,255	1,203	4.3%	14	13	1,181	1,156	NM	0	55	34
Wisconsin	1,521	1,589	-4.3%	972	1,051	541	531	0	0	8	7
West North Central	60,940	51,867	17.5%	21,264	17,430	39,644	34,405	32	32	0	0
Iowa	20,049	17,873	12.2%	12,777	10,724	7,270	7,146	NM	3	0	0
Kansas	14,113	10,999	28.3%	830	883	13,283	10,115	0	0	0	0
Minnesota	10,637	9,779	8.8%	2,651	2,152	7,957	7,598	29	29	0	0
Missouri	1,123	1,033	8.7%	0	0	1,123	1,033	0	0	0	0
Nebraska	3,793	3,180	19.3%	203	218	3,591	2,963	0	0	0	0
North Dakota	8,080	6,506	24.2%	3,814	2,622	4,265	3,883	0	0	0	0
South Dakota	3,145	2,498	25.9%	989	831	2,156	1,667	0	0	0	0
South Atlantic	1,970	1,816	8.5%	0	0	1,965	1,811	NM	5	0	0
Delaware	NM	5	NM	0	0	0	0	NM	5	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	527	435	21.3%	0	0	527	435	0	0	0	0
North Carolina	6	0	--	0	0	6	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	1,432	1,376	4.1%	0	0	1,432	1,376	0	0	0	0
East South Central	38	46	-17.7%	0	0	38	46	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	38	46	-17.7%	0	0	38	46	0	0	0	0
West South Central	77,076	58,864	30.9%	1,688	1,707	75,346	57,126	42	31	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	19,526	14,031	39.2%	1,430	1,426	18,095	12,605	0	0	0	0
Texas	57,551	44,833	28.4%	258	281	57,251	44,521	42	31	0	0
Mountain	23,673	18,945	25.0%	2,458	2,160	21,202	16,776	11	7	NM	3
Arizona	543	452	20.1%	0	0	543	452	0	0	0	0
Colorado	9,425	7,475	26.1%	140	135	9,275	7,334	7	4	NM	3
Idaho	2,427	2,270	6.9%	0	0	2,427	2,270	0	0	0	0
Montana	2,130	1,965	8.4%	231	217	1,899	1,748	0	0	0	0
Nevada	344	310	11.0%	0	0	344	310	0	0	0	0
New Mexico	3,614	2,090	72.9%	0	0	3,611	2,087	NM	3	0	0
Utah	827	626	32.1%	0	0	827	626	0	0	0	0
Wyoming	4,363	3,757	16.1%	2,087	1,808	2,276	1,949	0	0	0	0
Pacific Contiguous	28,902	25,936	11.4%	6,311	5,690	22,581	20,237	NM	5	NM	4
California	13,698	12,230	12.0%	704	693	12,984	11,527	NM	5	NM	4
Oregon	7,163	6,632	8.0%	1,261	1,234	5,902	5,398	0	0	0	0
Washington	8,042	7,075	13.7%	4,346	3,763	3,695	3,312	0	0	0	0
Pacific Noncontiguous	808	772	4.6%	108	105	699	667	0	0	0	0
Alaska	164	160	2.5%	108	105	55	55	0	0	0	0
Hawaii	644	613	5.1%	0	0	644	613	0	0	0	0
U.S. Total	226,485	190,719	18.8%	35,019	30,412	191,246	160,135	142	118	78	53

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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 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	663	660	0.4%	49	61	487	493	10	11	117	96
Connecticut	73	78	-6.4%	0	0	73	78	0	0	0	0
Maine	276	266	3.7%	0	0	152	163	7	8	117	96
Massachusetts	109	101	8.5%	0	0	109	100	NM	0	0	0
New Hampshire	148	152	-2.2%	25	32	121	117	NM	3	0	0
Rhode Island	17	18	-4.8%	0	0	17	18	0	0	0	0
Vermont	39	46	-13.6%	24	29	NM	16	NM	0	0	0
Middle Atlantic	495	499	-0.8%	0	0	397	393	37	49	62	57
New Jersey	86	88	-2.1%	0	0	71	73	15	16	0	0
New York	205	204	0.3%	0	0	168	162	17	19	19	23
Pennsylvania	204	207	-1.2%	0	0	158	158	NM	14	43	34
East North Central	520	460	12.9%	69	58	301	257	13	19	136	127
Illinois	51	48	5.4%	NM	2	49	46	0	0	0	0
Indiana	39	35	11.9%	28	24	5	4	NM	2	6	6
Michigan	226	199	13.9%	0	0	158	128	9	14	60	58
Ohio	66	57	15.9%	NM	0	45	37	NM	1	21	19
Wisconsin	137	121	13.2%	40	32	45	41	NM	3	49	45
West North Central	207	202	2.1%	43	41	98	87	10	7	55	67
Iowa	22	14	55.3%	2	0	12	7	NM	2	5	5
Kansas	6	5	7.5%	0	0	6	5	0	0	0	0
Minnesota	159	166	-3.9%	32	31	76	71	3	2	49	62
Missouri	12	8	51.9%	3	3	5	3	4	2	NM	0
Nebraska	7	9	-19.5%	6	7	0	0	NM	1	0	0
North Dakota	NM	0	NM	0	0	0	0	0	0	NM	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,690	1,727	-2.1%	194	141	561	593	28	39	907	954
Delaware	7	7	-9.8%	0	0	5	6	0	0	NM	2
District of Columbia	0	5	-100.0%	0	0	0	5	0	0	0	0
Florida	422	423	-0.2%	8	9	223	216	NM	4	188	194
Georgia	416	439	-5.2%	0	0	63	69	NM	0	352	370
Maryland	45	44	2.4%	0	0	32	35	NM	1	11	8
North Carolina	224	279	-19.5%	0	0	108	151	5	13	111	115
South Carolina	190	192	-1.2%	42	32	37	34	0	0	111	126
Virginia	386	337	14.4%	144	100	92	77	17	20	133	140
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	523	530	-1.2%	8	6	32	29	0	0	483	494
Alabama	278	290	-4.1%	0	0	24	23	0	0	254	267
Kentucky	37	35	6.3%	8	6	NM	1	0	0	29	28
Mississippi	123	118	4.5%	0	0	NM	1	0	0	122	117
Tennessee	85	87	-2.4%	0	0	7	5	0	0	78	82
West South Central	510	533	-4.4%	0	0	77	106	NM	4	429	423
Arkansas	130	116	12.2%	0	0	8	6	NM	0	121	109
Louisiana	218	241	-9.8%	0	0	9	6	0	0	209	235
Oklahoma	27	31	-12.9%	0	0	NM	1	0	0	26	29
Texas	136	146	-6.8%	0	0	60	92	NM	4	73	50
Mountain	91	94	-2.4%	NM	1	54	56	NM	2	35	35
Arizona	20	20	0.3%	0	0	20	20	0	0	0	0
Colorado	7	8	-12.7%	0	0	7	8	0	0	0	0
Idaho	51	52	-1.4%	NM	1	17	18	NM	1	33	33
Montana	NM	2	NM	0	0	0	0	0	0	NM	2
Nevada	2	2	1.2%	0	0	2	2	0	0	0	0
New Mexico	NM	2	NM	0	0	NM	2	0	0	0	0
Utah	7	8	-2.9%	0	0	6	6	NM	1	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	788	825	-4.5%	71	66	433	485	71	79	214	194
California	519	566	-8.4%	20	15	385	440	68	76	46	36
Oregon	90	96	-6.3%	6	5	36	40	NM	2	46	48
Washington	179	163	10.2%	45	46	11	6	NM	1	122	110
Pacific Noncontiguous	29	26	9.7%	1	2	0	0	21	19	6	5
Alaska	4	4	5.6%	0	0	0	0	NM	4	NM	0
Hawaii	25	22	10.4%	1	2	0	0	17	16	6	4
U.S. Total	5,517	5,557	-0.7%	437	376	2,441	2,498	195	230	2,444	2,453

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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 1.15.B. Utility Scale Facility Net Generation from Biomass

by State, by Sector, Year-to-Date through December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	7,242	7,407	-2.2%	613	610	5,387	5,419	121	132	1,120	1,246
Connecticut	869	787	10.4%	0	0	869	784	0	4	0	0
Maine	2,826	3,153	-10.4%	0	0	1,617	1,816	89	91	1,120	1,246
Massachusetts	1,194	1,167	2.3%	0	0	1,193	1,166	NM	1	0	0
New Hampshire	1,675	1,624	3.1%	308	321	1,337	1,268	30	35	0	0
Rhode Island	205	211	-2.9%	0	0	205	211	0	0	0	0
Vermont	473	465	1.7%	305	289	166	174	NM	2	0	0
Middle Atlantic	5,640	5,591	0.9%	0	0	4,436	4,297	474	542	729	751
New Jersey	967	946	2.3%	0	0	796	774	171	172	0	0
New York	2,290	2,241	2.2%	0	0	1,879	1,814	210	212	202	215
Pennsylvania	2,382	2,404	-0.9%	0	0	1,762	1,709	93	159	527	536
East North Central	5,710	5,828	-2.0%	663	628	3,298	3,302	204	265	1,546	1,633
Illinois	573	527	8.8%	20	19	553	507	0	0	0	0
Indiana	448	446	0.3%	309	300	54	55	18	21	68	71
Michigan	2,503	2,485	0.7%	NM	0	1,685	1,609	144	201	675	675
Ohio	764	799	-4.4%	4	5	502	475	7	8	250	311
Wisconsin	1,422	1,571	-9.5%	329	303	503	655	35	36	554	576
West North Central	2,384	2,330	2.4%	534	503	1,104	1,071	123	103	623	652
Iowa	255	258	-1.2%	28	27	129	126	34	37	63	67
Kansas	71	62	15.2%	0	0	63	62	0	0	8	0
Minnesota	1,806	1,806	0.0%	386	379	856	828	26	21	538	579
Missouri	147	129	13.7%	41	42	56	55	47	29	3	3
Nebraska	94	71	32.8%	79	55	0	0	15	16	0	0
North Dakota	11	4	211.7%	0	0	0	0	0	0	11	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	18,763	19,303	-2.8%	1,768	1,744	6,241	6,544	353	371	10,401	10,644
Delaware	75	76	-2.2%	0	0	61	60	0	0	13	16
District of Columbia	0	31	-100.0%	0	0	0	31	0	0	0	0
Florida	4,560	4,919	-7.3%	89	104	2,413	2,661	46	45	2,012	2,110
Georgia	4,657	4,734	-1.6%	0	0	701	679	6	8	3,950	4,047
Maryland	547	514	6.3%	0	0	410	400	25	15	112	100
North Carolina	2,423	2,589	-6.4%	0	0	1,137	1,186	66	75	1,220	1,328
South Carolina	2,372	2,289	3.6%	420	437	410	406	0	0	1,542	1,446
Virginia	4,124	4,144	-0.5%	1,258	1,202	1,104	1,116	211	229	1,551	1,597
West Virginia	5	5	-0.9%	0	0	5	5	0	0	0	0
East South Central	6,204	6,241	-0.6%	87	85	370	352	0	0	5,747	5,804
Alabama	3,258	3,289	-0.9%	0	0	273	256	0	0	2,986	3,034
Kentucky	452	441	2.4%	87	85	7	7	0	0	358	349
Mississippi	1,493	1,507	-0.9%	0	0	13	13	0	0	1,480	1,494
Tennessee	1,001	1,004	-0.3%	0	0	77	76	0	0	924	928
West South Central	6,138	5,922	3.6%	19	125	976	926	39	38	5,103	4,834
Arkansas	1,402	1,441	-2.7%	0	0	100	85	4	4	1,298	1,352
Louisiana	2,687	2,705	-0.6%	0	0	95	89	0	0	2,593	2,616
Oklahoma	313	336	-6.8%	0	0	13	13	0	0	300	324
Texas	1,735	1,440	20.5%	19	125	769	739	36	33	912	543
Mountain	1,042	1,060	-1.7%	13	20	624	619	21	23	385	399
Arizona	219	227	-3.2%	0	7	219	219	0	0	0	0
Colorado	89	81	11.0%	0	0	89	81	0	0	0	0
Idaho	584	601	-2.8%	13	12	201	203	8	9	363	377
Montana	22	21	1.2%	0	0	0	0	0	0	22	21
Nevada	26	26	0.7%	0	0	26	26	0	0	0	0
New Mexico	18	20	-9.8%	0	0	18	20	0	0	0	0
Utah	84	85	-1.1%	0	0	71	71	13	15	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	9,075	9,575	-5.2%	741	725	5,009	5,365	868	971	2,457	2,514
California	6,066	6,468	-6.2%	218	184	4,484	4,847	834	929	531	507
Oregon	992	1,116	-11.1%	68	66	400	404	17	26	506	621
Washington	2,017	1,991	1.3%	456	475	125	114	17	16	1,420	1,386
Pacific Noncontiguous	374	376	-0.5%	37	52	0	0	251	240	85	84
Alaska	51	55	-6.2%	0	0	0	0	46	50	5	5
Hawaii	322	321	0.4%	37	52	0	0	205	189	80	79
U.S. Total	62,572	63,632	-1.7%	4,475	4,491	27,447	27,894	2,454	2,685	28,197	28,561

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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.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 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	427	374	14.2%	23	23	404	351	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	9	8	17.3%	0	0	9	8	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	366	326	12.2%	0	0	366	326	0	0	0	0
New Mexico	NM	1	NM	0	0	NM	1	0	0	0	0
Utah	50	39	29.1%	23	23	28	16	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,165	983	18.5%	73	75	1,091	908	0	0	0	0
California	1,142	963	18.6%	72	74	1,070	889	0	0	0	0
Oregon	23	20	14.7%	NM	1	21	19	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	29	20	41.1%	0	0	29	20	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	29	20	41.1%	0	0	29	20	0	0	0	0
U.S. Total	1,620	1,377	17.6%	96	97	1,524	1,280	0	0	0	0

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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 December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 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	4,491	3,625	23.9%	257	260	4,234	3,366	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	97	76	28.4%	0	0	97	76	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	3,848	3,111	23.7%	0	0	3,848	3,111	0	0	0	0
New Mexico	16	10	63.8%	0	0	16	10	0	0	0	0
Utah	530	430	23.4%	257	260	273	170	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	12,666	12,062	5.0%	836	829	11,829	11,233	0	0	0	0
California	12,469	11,883	4.9%	819	827	11,650	11,056	0	0	0	0
Oregon	197	179	10.1%	NM	2	180	177	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	260	230	12.9%	0	0	260	230	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	260	230	12.9%	0	0	260	230	0	0	0	0
U.S. Total	17,417	15,918	9.4%	1,093	1,089	16,324	14,829	0	0	0	0

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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 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, December 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector				Industrial Sector				Residential Sector	
				Electric Utilities		Independent Power Producers											
	Estimated Generation From Utility and Small Scale Facilities			Generation at Utility Scale Facilities		Estimated Small Scale Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Small Scale Generation	
Census Division and State	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	141	107	32.0%	43	34	98	73	NM	1	39	33	NM	45	NM	0	58	45	5	3	0	0	5	3	36	25
Connecticut	NM	14	NM	NM	1	18	13	NM	0	NM	1	8	5	0	0	8	5	1	1	0	0	1	1	10	7
Maine	2	1	40.9%	0	0	2	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Massachusetts	103	82	26.1%	34	29	69	53	NM	1	33	28	NM	37	NM	0	46	37	3	3	0	0	3	3	20	13
New Hampshire	4	2	102.2%	0	0	4	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Rhode Island	NM	2	NM	NM	1	1	1	0	0	NM	1	1	1	0	0	1	1	0	0	0	0	0	0	1	NM
Vermont	NM	6	NM	NM	3	4	3	NM	0	NM	3	1	1	0	0	1	1	0	0	0	0	0	0	2	2
Middle Atlantic	223	159	39.9%	61	29	162	130	NM	2	49	21	97	84	7	5	90	79	NM	9	NM	0	9	9	62	43
New Jersey	147	104	41.8%	49	22	98	82	NM	2	38	15	71	63	6	5	65	58	NM	5	NM	0	5	5	27	19
New York	56	39	42.2%	9	5	47	34	0	0	9	5	NM	15	NM	0	18	15	1	1	0	0	1	1	28	19
Pennsylvania	NM	17	NM	NM	2	17	14	0	0	NM	2	NM	6	NM	0	7	6	NM	4	NM	0	3	3	7	5
East North Central	33	26	27.1%	22	17	11	9	NM	2	16	15	NM	7	NM	0	7	6	NM	0	NM	0	NM	0	4	2
Illinois	NM	4	NM	NM	3	2	1	NM	0	NM	3	1	1	0	0	1	1	0	NM	0	0	0	NM	1	0
Indiana	15	11	34.6%	14	10	1	1	NM	1	10	9	0	0	0	0	0	0	NM	NM	0	0	NM	NM	0	0
Michigan	NM	2	NM	NM	0	NM	2	NM	0	0	0	1	1	0	0	1	1	NM	0	0	0	NM	0	1	0
Ohio	NM	8	NM	NM	3	5	4	NM	1	NM	3	NM	4	NM	0	4	3	NM	0	NM	0	NM	0	1	1
Wisconsin	NM	1	NM	NM	0	2	1	0	0	NM	0	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	1
West North Central	27	14	95.7%	12	2	15	12	NM	0	11	1	NM	7	NM	0	8	7	0	0	0	0	0	0	7	5
Iowa	NM	2	NM	NM	0	3	2	NM	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	1	1
Kansas	NM	0	NM	NM	0	1	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minnesota	10	2	582.6%	8	0	2	1	NM	0	8	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Missouri	NM	10	NM	NM	1	10	8	0	0	NM	1	NM	5	NM	0	5	5	0	0	0	0	0	0	4	3
Nebraska	NM	0	NM	NM	0	0	0	0	0	NM	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	0	NM
North Dakota	0	0	12.6%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	539	225	139.5%	441	167	98	58	137	13	299	147	61	41	6	7	55	34	3	2	0	0	3	2	40	21
Delaware	NM	8	NM	NM	4	7	5	NM	0	NM	3	NM	3	NM	0	4	3	0	0	0	0	0	0	2	1
District of Columbia	4	2	107.2%	0	0	4	2	0	0	0	0	3	1	0	0	3	1	0	0	0	0	0	0	1	1
Florida	123	18	569.8%	104	6	19	12	101	4	NM	2	NM	6	NM	0	9	6	0	0	0	0	0	0	9	7
Georgia	NM	23	NM	105	17	NM	NM	13	3	92	14	NM	NM	NM	0	NM	NM	NM	NM	0	0	NM	NM	NM	NM
Maryland	53	28	90.5%	13	5	40	23	NM	0	13	5	NM	13	NM	0	19	13	2	1	0	0	2	1	19	9
North Carolina	220	142	55.3%	209	135	11	6	15	6	188	123	NM	11	NM	6	8	4	0	0	0	0	0	0	3	2
South Carolina	NM	1	NM	NM	0	3	1	0	0	NM	0	1	NM	0	0	1	NM	NM	0	0	0	NM	0	3	1
Virginia	NM	2	NM	NM	0	3	2	NM	0	0	0	1	1	0	0	1	1	NM	NM	0	0	NM	NM	2	1
West Virginia	0	0	32.1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East South Central	19	9	116.0%	14	5	5	4	1	0	13	4	NM	4	NM	0	5	4	0	0	0	0	0	0	0	0
Alabama	7	0	NM	7	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kentucky	2	1	136.2%	1	0	1	1	1	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Mississippi	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	NM	8	NM	NM	5	3	3	0	0	NM	4	NM	3	NM	0	3	3	0	0	0	0	0	0	0	0
West South Central	101	75	35.2%	60	46	41	28	NM	0	60	46	NM	7	NM	0	11	7	0	0	0	0	0	0	30	21
Arkansas	NM	1	NM	NM	1	0	0	NM	0	NM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Louisiana	13	11	11.7%	0	0	13	11	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	12	11
Oklahoma	1	0	29.3%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texas	86	62	39.2%	58	45	27	16	0	0	58	45	NM	7	NM	0	10	6	0	0	0	0	0	0	18	10
Mountain	745	511	45.9%	559	355	186	156	37	48	518	301	NM	63	NM	6	62	58	NM	14	NM	0	13	14	111	84
Arizona	312	273	14.4%	203	174	109	98	24	33	178	141	NM	35	NM	1	34	34	11	12	0	0	11	12	64	52
Colorado	73	48	52.9%	45	24	28	24	0	0	44	23	NM	12	NM	1	13	11	0	0	0	0	0	0	16	13
Idaho	7	0	NM	6	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Montana	1	0	28.4%	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nevada	192	116	65.9%	170	99	22	17	NM	1	164	95	NM	8	NM	3	6	5	NM	2	NM	0	1	2	15	10
New Mexico	65	52	24.7%	52	41	13	11	11	14	41	27	6	5	0	0	6	5	0	0	0	0	0	0	7	6
Utah	96	21	344.7%	84	16	11	5	0	0	84	16	3	2	0	0	3	2	0	0	0	0	0	0	8	3
Wyoming	0	0	32.3%	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	NM
Pacific Contiguous	1,522	1,181	28.8%	988	786	534	395	23	28	958	753	136	97	6	6	130	91	NM	65	NM	0	83	64	321	239
California	1,505	1,175	28.1%	978	785	527	390	23	27	949	752	133	95	6	6	128	90	NM	64	NM	0	82	64	317	236
Oregon	14	4	220.2%	10	1	4	3	NM	0	9	1	2	1	0	0	2	1	0	0	0	0	0	0	2	2
Washington	3	2	43.7%	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2
Pacific Noncontiguous	NM	52	NM	NM	4	52	48	NM	2	NM	2	18	17	0	0	18	17	0	0	0	0	0	0	33	30
Alaska	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	NM	52	NM	NM	4	52	48	NM	2	NM	2	18	17	0	0	18	17	0	0	0	0	0	0	33	30
U.S. Total	3,406	2,358	44.4%	2,204	1,444	1,202	914	214	96	1,964	1,324	468	373	24	24	443	349	NM	94	NM	1	114	93	644	471

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 for 2016 are preliminary. Values for 2015 are final. 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.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.17.B. Net Generation from Solar Photovoltaic by State, by Sector, Year-to-Date through December 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector						Commercial Sector						Industrial Sector						Residential Sector	
				Electric Utilities		Independent Power Producers																	
	Estimated Generation From Utility and Small Scale Facilities			Generation at Utility Scale Facilities		Estimated Small Scale Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities		Estimated Small Scale Generation		Estimated Small Scale Generation	
Census Division and State	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	2,576	1,702	51.3%	831	531	1,745	1,171	29	14	794	515	973	746	7	3	965	743	82	52	0	0	82	52	698	376
Connecticut	347	216	60.7%	28	17	319	199	NM	0	24	17	129	90	0	0	129	90	16	10	0	0	16	10	174	98
Maine	29	19	54.2%	0	0	29	19	0	0	0	0	10	6	0	0	10	6	0	0	0	0	0	0	19	13
Massachusetts	1,949	1,314	48.4%	707	451	1,242	862	16	14	684	435	775	613	7	3	767	610	64	41	0	0	64	41	411	211
New Hampshire	54	24	128.7%	0	0	54	24	0	0	0	0	17	7	0	0	17	7	2	1	0	0	2	1	36	16
Rhode Island	41	28	47.5%	19	14	21	13	0	0	19	14	14	11	0	0	14	11	0	0	0	0	0	0	7	3
Vermont	155	102	51.3%	76	48	79	54	8	0	67	48	28	18	0	0	28	18	0	0	0	0	0	0	51	36
Middle Atlantic	4,196	3,077	36.4%	1,295	792	2,900	2,284	109	63	1,004	581	1,766	1,524	169	139	1,598	1,386	173	160	14	10	160	150	1,143	749
New Jersey	2,746	2,062	33.1%	1,038	628	1,708	1,435	109	63	766	431	1,292	1,150	159	133	1,133	1,017	91	82	NM	1	87	81	488	337
New York	1,067	689	54.9%	176	101	892	589	0	0	171	98	337	262	4	3	333	259	13	10	0	0	13	10	546	319
Pennsylvania	383	325	17.6%	82	64	301	261	0	0	67	52	137	113	5	3	132	109	70	68	10	8	60	59	109	93
East North Central	672	463	45.0%	433	264	238	199	83	19	342	239	168	149	NM	3	165	146	12	7	NM	2	7	5	67	48
Illinois	95	76	24.4%	58	49	37	27	NM	1	55	48	25	19	0	0	25	19	0	0	0	0	0	0	11	8
Indiana	285	168	69.7%	271	156	14	12	52	8	219	148	6	7	0	0	6	7	0	0	0	0	0	0	8	5
Michigan	60	39	55.7%	17	1	44	38	17	1	0	0	30	27	0	0	30	27	1	1	0	0	1	1	13	10
Ohio	193	151	27.6%	83	56	110	95	11	9	64	42	89	80	NM	3	85	77	10	7	NM	2	5	4	20	14
Wisconsin	38	29	32.5%	NM	1	34	27	0	0	NM	1	19	17	0	0	19	17	2	0	0	0	2	0	14	10
West North Central	345	240	43.9%	70	21	275	219	5	0	62	21	156	129	NM	0	154	129	5	3	0	0	5	3	117	86
Iowa	56	41	35.7%	NM	0	55	41	NM	0	0	0	37	27	0	0	37	27	1	1	0	0	1	1	17	13
Kansas	12	6	96.1%	NM	2	10	5	0	0	NM	2	5	2	0	0	5	2	0	0	0	0	0	0	5	2
Minnesota	57	28	102.6%	21	3	37	26	NM	0	19	3	17	14	0	0	17	14	2	2	0	0	2	2	17	10
Missouri	210	162	29.5%	40	17	169	145	3	0	35	16	96	86	NM	0	93	86	1	1	0	0	1	1	75	59
Nebraska	8	1	498.3%	NM	0	3	1	0	0	NM	0	1	0	0	0	1	0	0	0	0	0	0	0	2	1
North Dakota	0	0	3.6%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	2	1	196.3%	NM	0	1	1	0	0	NM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
South Atlantic	6,859	2,627	161.1%	5,380	1,792	1,478	834	574	98	4,670	1,604	990	596	136	90	854	506	48	25	0	0	48	25	576	303
Delaware	172	128	34.8%	56	49	117	79	7	7	47	41	75	55	NM	1	73	54	4	4	0	0	4	4	40	22
District of Columbia	54	32	67.9%	0	0	54	32	0	0	0	0	38	23	0	0	38	23	0	0	0	0	0	0	16	10
Florida	522	274	90.5%	273	118	249	156	193	68	78	48	129	75	NM	2	127	73	6	4	0	0	6	4	116	79
Georgia	1,076	229	368.9%	907	129	169	100	102	4	801	123	166	95	4	3	163	92	1	2	0	0	1	2	6	6
Maryland	913	457	99.5%	264	119	649	339	10	8	247	104	311	190	7	7	304	183	34	13	0	0	34	13	310	143
North Carolina	4,016	1,460	175.0%	3,854	1,374	161	86	251	12	3,481	1,284	244	143	122	78	122	65	3	2	0	0	3	2	36	19
South Carolina	35	11	203.4%	5	4	29	7	0	0	5	4	6	2	0	0	6	2	0	0	0	0	0	0	23	5
Virginia	65	30	119.5%	22	0	44	30	12	0	9	0	18	13	0	0	18	13	0	0	0	0	0	0	25	16
West Virginia	6	4	34.7%	0	0	6	4	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	4	3
East South Central	221	155	42.7%	130	76	90	78	12	0	115	73	88	78	NM	3	85	75	0	0	0	0	0	0	5	3
Alabama	35	3	993.6%	31	0	4	3	0	0	31	0	3	3	0	0	3	3	0	0	0	0	0	0	1	0
Kentucky	29	14	108.3%	12	0	17	14	12	0	0	0	13	12	0	0	13	12	0	0	0	0	0	0	4	2
Mississippi	5	2	224.3%	NM	0	5	2	0	0	NM	0	5	1	0	0	5	1	0	0	0	0	0	0	0	0
Tennessee	151	136	11.3%	87	76	64	60	0	0	84	73	67	62	NM	3	64	60	0	0	0	0	0	0	0	0
West South Central	1,350	789	71.2%	786	403	564	385	7	2	777	400	155	109	NM	2	153	107	0	0	0	0	0	0	411	279
Arkansas	37	6	487.9%	30	1	7	5	NM	0	28	1	3	3	0	0	3	3	0	0	0	0	0	0	4	3
Louisiana	194	153	26.6%	0	0	194	153	0	0	0	0	12	6	0	0	12	6	0	0	0	0	0	0	182	147
Oklahoma	11	5	128.6%	5	2	5	3	5	2	0	0	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Texas	1,108	624	77.5%	751	401	357	223	0	0	749	399	138	100	NM	2	135	98	0	0	0	0	0	0	222	126
Mountain	10,511	7,358	42.8%	7,667	5,184	2,844	2,174	803	685	6,747	4,417	1,075	937	115	80	960	857	197	175	NM	3	194	172	1,689	1,145
Arizona	4,764	4,108	16.0%	3,109	2,738	1,655	1,370	518	525	2,570	2,191	551	524	21	22	530	503	162	147	0	0	162	147	963	721
Colorado	1,020	643	58.7%	548	251	471	391	0	0	532	238	221	192	16	13	205	179	2	2	0	0	2	2	265	210
Idaho	39	6	533.2%	29	0	10	6	0	0	29	0	3	3	0	0	3	3	0	0	0	0	0	0	7	4
Montana	11	8	32.9%	0	0	11	8	0	0	0	0	3	3	0	0	3	3	0	0	0	0	0	0	7	6
Nevada	2,674	1,734	54.2%	2,302	1,548	372	186	35	2	2,187	1,499	174	115	77	45	97	70	25	20	NM	3	23	17	253	99
New Mexico	976	757	28.9%	804	615	171	142	249	158	555	457	79	73	0	0	79	73	1	1	0	0	1	1	92	69
Utah	1,023	99	934.1%	874	32	150	67	0	0	874	32	43	26	0	0	43	26	6	5	0	0	6	5	101	36
Wyoming	3	3	28.0%	0	0	3	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	2
Pacific Contiguous	25,284	18,708	35.1%	16,681	12,547	8,603	6,161	521	481	16,022	11,962	2,123	1,594	127	97	1,996	1,497	1,335	1,050	11	7	1,325	1,043	5,282	3,621
California	25,011	18,536	34.9%	16,610	12,522	8,402	6,014	514	474	15,958	11,944	2,062	1,543	127	97	1,935	1,446	1,330	1,046	11	7	1,320	1,040	5,147	3,528
Oregon	183	116	57.9%	70	24	113	92	7	6	64	18	48	41	0	0	48	41	5	4	0	0	5	4	59	47
Washington	89	56	58.7%	1	1	89	55	1	1	0	0	13	10	0	0	13	10	0	0	0	0	0	0	75	46
Pacific Noncontiguous	821	687	19.5%	92	54	729	632	49	25	43	29	250	243	0	0	250	243	2	0	0	0	2	0	476	389
Alaska	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	821	687	19.5%	92	54	729	632	49	25	43	29	250	243	0	0	250	243	2	0	0	0	2	0	476	389
U.S. Total	52,833	35,805	47.6%	33,367	21,666	19,467	14,139	2,192	1,388	30,577	19,841	7,745	6,106	565	416	7,180	5,689	1,855	1,472	32	21	1,823	1,451	10,465	6,999

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 for 2016 are preliminary. Values for 2015 are final. 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.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated small scale solar photovoltaic generation and small scale solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, December 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	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 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	7	2	240.3%	7	2	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	7	2	240.3%	7	2	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	24	32	-26.3%	0	0	24	32	0	0	0	0
Arizona	22	30	-26.4%	0	0	22	30	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	2	3	-25.2%	0	0	2	3	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	64	91	-29.8%	0	0	64	91	0	0	0	0
California	64	91	-29.8%	0	0	64	91	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	95	126	-24.7%	7	2	88	124	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 for 2016 are preliminary. Values for 2015 are final. 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 December 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	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 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	79	106	-25.2%	79	106	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	79	106	-25.2%	79	106	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	888	828	7.2%	0	0	888	828	0	0	0	0
Arizona	644	719	-10.5%	0	0	644	719	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	244	109	123.7%	0	0	244	109	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	2,421	2,293	5.6%	0	0	2,421	2,293	0	0	0	0
California	2,421	2,293	5.6%	0	0	2,421	2,293	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	3,388	3,227	5.0%	79	106	3,308	3,121	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 for 2016 are preliminary. Values for 2015 are final. 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-December 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	739,594	539,506	195,927	163	3,999
2016	677,981	498,146	176,311	148	3,376
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	71,384	50,757	20,271	18	338
February	67,136	47,845	18,954	19	318
March	58,367	42,202	15,797	17	351
April	48,543	36,037	12,193	12	302
May	57,153	42,814	14,005	10	323
June	68,982	50,592	18,017	14	359
July	76,570	56,202	19,977	14	376
August	73,810	54,023	19,408	12	368
Sept	64,823	46,706	17,746	10	360
October	53,659	39,023	14,309	11	317
November	48,943	35,427	13,209	12	295
December	50,224	37,878	12,041	14	292
Year 2016					
January	62,048	45,567	16,149	14	319
February	50,567	37,652	12,604	15	296
March	39,850	31,037	8,495	14	304
April	38,972	28,646	10,062	11	254
May	45,036	33,834	10,933	9	260
June	63,326	46,363	16,644	10	310
July	74,241	54,196	19,706	11	328
August	73,868	53,927	19,600	12	330
Sept	62,428	44,869	17,280	12	267
October	54,634	39,517	14,858	13	246
November	48,126	35,274	12,624	13	215
December	64,883	47,265	17,356	15	249
Year to Date					
2014	853,634	624,235	224,568	202	4,629
2015	739,594	539,506	195,927	163	3,999
2016	677,981	498,146	176,311	148	3,376
Rolling 12 Months Ending in December					
2015	739,594	539,506	195,927	163	3,999
2016	677,981	498,146	176,311	148	3,376

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 2015 and prior years are final. Values for 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-December 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	16,632	1,032	1,980	635	12,985
2016	14,244	1,041	1,733	544	10,925
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	1,649	99	197	79	1,275
February	1,505	96	166	78	1,165
March	1,494	94	178	67	1,155
April	1,296	76	144	43	1,034
May	1,335	75	165	40	1,055
June	1,327	87	172	47	1,022
July	1,451	86	187	50	1,129
August	1,345	71	176	45	1,052
Sept	1,301	75	155	40	1,031
October	1,245	81	145	41	979
November	1,321	99	145	47	1,030
December	1,363	95	151	58	1,059
Year 2016					
January	1,500	103	152	62	1,184
February	1,393	90	141	63	1,099
March	1,364	96	142	61	1,065
April	1,041	81	170	39	752
May	1,135	81	135	31	889
June	1,175	81	155	36	902
July	1,176	83	151	35	906
August	1,173	90	141	39	904
Sept	1,040	77	140	37	786
October	1,009	76	149	37	747
November	1,036	84	120	48	784
December	1,201	99	138	57	907
Year to Date					
2014	18,107	978	1,821	861	14,448
2015	16,632	1,032	1,980	635	12,985
2016	14,244	1,041	1,733	544	10,925
Rolling 12 Months Ending in December					
2015	16,632	1,032	1,980	635	12,985
2016	14,244	1,041	1,733	544	10,925

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 2015 and prior years are final. Values for 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-December 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	756,226	540,538	197,906	798	16,984
2016	692,225	499,188	178,044	692	14,302
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	73,033	50,856	20,467	97	1,613
February	68,640	47,941	19,120	97	1,483
March	59,861	42,297	15,975	83	1,506
April	49,840	36,112	12,337	54	1,336
May	58,488	42,889	14,171	50	1,378
June	70,309	50,678	18,189	61	1,381
July	78,021	56,288	20,164	64	1,505
August	75,156	54,094	19,584	58	1,420
Sept	66,124	46,780	17,901	51	1,391
October	54,904	39,104	14,453	52	1,296
November	50,264	35,526	13,353	59	1,325
December	51,587	37,973	12,192	72	1,350
Year 2016					
January	63,549	45,669	16,301	76	1,503
February	51,960	37,742	12,745	78	1,395
March	41,214	31,133	8,636	75	1,370
April	40,014	28,727	10,231	49	1,005
May	46,171	33,915	11,068	40	1,149
June	64,502	46,444	16,799	46	1,212
July	75,416	54,279	19,857	46	1,234
August	75,041	54,017	19,740	50	1,234
Sept	63,469	44,946	17,420	49	1,053
October	55,643	39,594	15,007	50	993
November	49,162	35,358	12,744	61	998
December	66,084	47,364	17,494	71	1,155
Year to Date					
2014	871,741	625,212	226,389	1,063	19,076
2015	756,226	540,538	197,906	798	16,984
2016	692,225	499,188	178,044	692	14,302
Rolling 12 Months Ending in December					
2015	756,226	540,538	197,906	798	16,984
2016	692,225	499,188	178,044	692	14,302

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 2015 and prior years are final. Values for 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-December 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	28,925	18,562	9,473	249	641
2016	21,224	15,667	4,841	132	584
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	3,293	2,061	1,135	33	64
February	8,589	3,547	4,845	93	103
March	1,785	1,243	472	18	53
April	1,522	1,232	222	14	54
May	1,697	1,251	376	15	55
June	1,745	1,380	296	14	56
July	1,995	1,480	453	16	45
August	1,801	1,398	344	17	42
Sept	1,656	1,230	378	7	41
October	1,541	1,215	273	7	46
November	1,720	1,348	324	7	40
December	1,581	1,177	354	8	42
Year 2016					
January	2,330	1,681	589	12	48
February	2,111	1,405	645	14	47
March	1,366	1,044	284	NM	31
April	1,318	1,016	261	10	31
May	1,565	1,173	325	11	56
June	1,577	1,242	281	9	44
July	2,205	1,677	461	11	57
August	2,195	1,630	498	15	52
Sept	1,532	1,112	370	10	41
October	1,566	1,140	352	11	64
November	1,560	1,198	305	11	46
December	1,899	1,350	470	13	67
Year to Date					
2014	31,531	19,652	10,689	451	739
2015	28,925	18,562	9,473	249	641
2016	21,224	15,667	4,841	132	584
Rolling 12 Months Ending in December					
2015	28,925	18,562	9,473	249	641
2016	21,224	15,667	4,841	NM	584

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 2015 and prior years are final. Values for 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-December 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	3,142	62	1,155	282	1,643
2016	2,534	19	1,014	126	1,374
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	324	7	99	43	175
February	595	46	175	116	259
March	261	1	89	25	146
April	239	0	80	17	142
May	232	0	82	18	132
June	218	1	79	14	123
July	231	1	102	15	113
August	203	1	88	16	98
Sept	199	1	90	2	106
October	225	1	98	3	124
November	203	1	85	7	110
December	210	1	90	5	114
Year 2016					
January	244	4	84	16	140
February	223	7	68	16	132
March	183	0	89	NM	87
April	180	1	79	10	91
May	209	0	86	9	114
June	197	2	78	8	109
July	239	0	87	11	140
August	233	0	94	10	129
Sept	186	1	88	9	89
October	231	0	89	9	133
November	184	0	78	8	97
December	225	2	95	13	115
Year to Date					
2014	3,099	64	1,170	216	1,650
2015	3,142	62	1,155	282	1,643
2016	2,534	19	1,014	126	1,374
Rolling 12 Months Ending in December					
2015	3,142	62	1,155	282	1,643
2016	2,534	19	1,014	NM	1,374

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 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.
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Table 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-December 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	32,067	18,624	10,629	531	2,283
2016	23,758	15,687	5,855	258	1,959
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	3,617	2,069	1,234	76	239
February	9,184	3,593	5,020	209	362
March	2,046	1,244	560	43	199
April	1,761	1,233	301	31	196
May	1,930	1,251	458	34	187
June	1,963	1,381	375	28	179
July	2,226	1,481	555	32	159
August	2,004	1,399	432	33	140
Sept	1,856	1,230	468	10	147
October	1,766	1,216	371	9	170
November	1,923	1,349	409	14	150
December	1,791	1,178	444	13	155
Year 2016					
January	2,574	1,685	673	28	188
February	2,334	1,412	713	30	179
March	1,549	1,045	372	NM	118
April	1,498	1,017	340	20	121
May	1,773	1,173	410	20	170
June	1,774	1,245	359	17	153
July	2,444	1,677	548	22	197
August	2,428	1,630	592	25	181
Sept	1,718	1,112	458	18	130
October	1,797	1,140	441	20	196
November	1,744	1,198	384	19	143
December	2,125	1,352	565	26	182
Year to Date					
2014	34,630	19,716	11,859	667	2,389
2015	32,067	18,624	10,629	531	2,283
2016	23,758	15,687	5,855	258	1,959
Rolling 12 Months Ending in December					
2015	32,067	18,624	10,629	531	2,283
2016	23,758	15,687	5,855	NM	1,959

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.
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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-December 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	4,044	3,120	669	2	253
2016	4,275	3,431	600	1	243
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	402	312	56	0	33
February	413	332	56	0	25
March	275	195	60	0	20
April	300	213	59	0	28
May	339	260	59	0	20
June	306	233	55	0	18
July	409	333	59	0	17
August	388	311	58	0	18
Sept	376	294	61	0	21
October	300	227	57	0	16
November	260	178	62	0	20
December	276	232	26	0	18
Year 2016					
January	341	302	17	0	22
February	329	272	39	0	17
March	366	283	63	0	20
April	390	326	43	0	21
May	371	296	52	0	23
June	382	308	52	0	22
July	403	325	56	0	22
August	422	337	62	0	23
Sept	383	311	50	0	22
October	246	172	62	0	13
November	304	240	47	0	18
December	337	261	56	0	21
Year to Date					
2014	4,412	3,440	599	2	371
2015	4,044	3,120	669	2	253
2016	4,275	3,431	600	1	243
Rolling 12 Months Ending in December					
2015	4,044	3,120	669	2	253
2016	4,275	3,431	600	1	243

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 2015 and prior years are final. Values for 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-December 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	1,144	9	109	16	1,010
2016	1,016	2	105	9	900
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	109	0	10	2	96
February	99	1	9	2	88
March	101	1	9	2	89
April	106	1	9	1	95
May	96	1	10	0	86
June	91	2	9	0	81
July	81	1	9	0	71
August	87	0	9	2	77
Sept	98	0	8	2	88
October	84	0	8	2	73
November	106	3	10	2	92
December	86	0	10	1	75
Year 2016					
January	79	0	10	2	66
February	87	0	9	2	76
March	108	0	10	2	96
April	71	0	6	0	64
May	74	0	6	0	67
June	79	0	8	0	71
July	85	0	8	1	76
August	84	0	9	0	75
Sept	65	0	9	0	56
October	112	0	10	0	102
November	77	0	9	0	68
December	95	0	10	2	84
Year to Date					
2014	1,283	3	90	16	1,174
2015	1,144	9	109	16	1,010
2016	1,016	2	105	9	900
Rolling 12 Months Ending in December					
2015	1,144	9	109	16	1,010
2016	1,016	2	105	9	900

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-December 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	5,188	3,128	779	18	1,263
2016	5,291	3,433	705	10	1,144
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	510	313	66	3	129
February	513	332	65	2	113
March	376	196	69	2	109
April	406	213	68	2	123
May	435	261	69	0	105
June	398	235	63	0	99
July	490	334	68	0	88
August	475	311	67	2	95
Sept	475	294	69	2	109
October	384	227	65	2	89
November	365	181	72	2	111
December	362	232	36	2	93
Year 2016					
January	420	302	27	3	89
February	416	272	49	2	93
March	474	283	74	2	116
April	461	326	50	0	85
May	445	296	58	0	90
June	461	308	60	0	93
July	488	325	65	1	98
August	506	337	71	0	98
Sept	448	311	59	0	78
October	359	172	72	0	115
November	381	240	56	0	85
December	433	261	65	2	104
Year to Date					
2014	5,695	3,443	689	18	1,545
2015	5,188	3,128	779	18	1,263
2016	5,291	3,433	705	10	1,144
Rolling 12 Months Ending in December					
2015	5,188	3,128	779	18	1,263
2016	5,291	3,433	705	10	1,144

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 2.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2006-December 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	10,016,576	4,745,255	4,576,683	70,092	624,545
2016	10,400,195	5,045,520	4,642,081	68,639	643,955
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	745,235	347,151	338,575	5,254	54,254
February	676,139	331,550	293,466	4,643	46,480
March	736,500	348,019	335,606	5,168	47,707
April	692,199	329,693	312,160	4,864	45,483
May	765,715	361,501	350,073	5,514	48,627
June	922,461	447,079	416,030	6,221	53,131
July	1,084,120	510,084	509,399	7,336	57,301
August	1,064,683	496,826	503,679	7,235	56,943
Sept	930,090	432,653	437,222	6,696	53,518
October	824,878	380,830	386,725	5,943	51,380
November	767,336	366,510	342,625	5,470	52,732
December	807,219	393,358	351,123	5,748	56,990
Year 2016					
January	803,496	390,470	353,701	5,845	53,480
February	716,939	352,730	309,115	5,032	50,062
March	775,092	379,525	337,795	5,413	52,359
April	753,780	364,608	333,632	5,304	50,236
May	839,337	409,691	371,145	5,604	52,897
June	1,006,981	501,185	445,296	6,087	54,412
July	1,179,364	576,840	538,874	6,656	56,994
August	1,191,376	573,095	554,337	6,741	57,203
Sept	951,076	454,440	436,438	5,961	54,237
October	775,622	368,496	350,464	5,153	51,510
November	700,757	332,274	308,648	5,332	54,504
December	706,376	342,166	302,636	5,512	56,061
Year to Date					
2014	8,544,387	3,895,008	3,954,032	71,957	623,390
2015	10,016,576	4,745,255	4,576,683	70,092	624,545
2016	10,400,195	5,045,520	4,642,081	68,639	643,955
Rolling 12 Months Ending in December					
2015	10,016,576	4,745,255	4,576,683	70,092	624,545
2016	10,400,195	5,045,520	4,642,081	68,639	643,955

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Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2006-December 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	935,098	8,060	283,372	46,287	597,379
2016	956,922	11,226	284,704	47,946	613,046
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	79,075	582	25,015	4,250	49,227
February	73,005	615	22,712	3,906	45,772
March	80,319	512	24,594	4,013	51,201
April	73,041	598	21,826	3,220	47,398
May	72,919	629	22,283	3,475	46,532
June	74,850	589	22,777	3,582	47,901
July	82,339	727	25,332	4,138	52,143
August	83,543	935	25,150	3,973	53,485
Sept	78,210	731	24,437	4,076	48,965
October	78,745	688	23,297	3,788	50,972
November	77,684	713	22,566	3,845	50,561
December	81,369	743	23,382	4,021	53,223
Year 2016					
January	85,090	1,163	25,628	4,555	53,744
February	78,278	1,068	23,422	4,216	49,573
March	80,135	958	24,327	4,160	50,691
April	76,780	700	22,327	4,001	49,753
May	77,892	864	24,001	3,652	49,374
June	77,871	909	23,951	3,613	49,398
July	81,911	983	25,464	4,134	51,329
August	83,318	956	26,205	4,159	51,998
Sept	77,778	867	23,163	3,748	50,000
October	76,549	702	21,699	3,603	50,546
November	77,442	860	21,756	3,798	51,027
December	83,877	1,194	22,761	4,307	55,614
Year to Date					
2014	865,146	4,926	292,016	46,635	521,569
2015	935,098	8,060	283,372	46,287	597,379
2016	956,922	11,226	284,704	47,946	613,046
Rolling 12 Months Ending in December					
2015	935,098	8,060	283,372	46,287	597,379
2016	956,922	11,226	284,704	47,946	613,046

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 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-December 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	10,951,674	4,753,315	4,860,055	116,380	1,221,924
2016	11,357,117	5,056,745	4,926,785	116,586	1,257,001
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	824,310	347,733	363,591	9,504	103,482
February	749,144	332,165	316,178	8,549	92,252
March	816,819	348,531	360,200	9,180	98,908
April	765,240	330,291	333,985	8,084	92,881
May	838,634	362,129	372,356	8,989	95,159
June	997,311	447,668	438,807	9,804	101,032
July	1,166,459	510,811	534,731	11,474	109,444
August	1,148,226	497,761	528,829	11,208	110,428
Sept	1,008,300	433,385	461,659	10,772	102,484
October	903,623	381,518	410,022	9,731	102,351
November	845,020	367,223	365,190	9,315	103,292
December	888,588	394,101	374,505	9,769	110,212
Year 2016					
January	888,586	391,633	379,329	10,400	107,224
February	795,217	353,798	332,537	9,248	99,635
March	855,227	380,483	362,122	9,572	103,049
April	830,560	365,308	355,959	9,304	99,989
May	917,229	410,556	395,146	9,256	102,271
June	1,084,852	502,095	469,247	9,700	103,810
July	1,261,274	577,823	564,338	10,790	108,323
August	1,274,694	574,051	580,542	10,901	109,201
Sept	1,028,854	455,308	459,601	9,708	104,238
October	852,172	369,198	372,162	8,756	102,055
November	778,199	333,134	330,404	9,130	105,531
December	790,252	343,360	325,397	9,820	111,675
Year to Date					
2014	9,409,532	3,899,934	4,246,048	118,591	1,144,959
2015	10,951,674	4,753,315	4,860,055	116,380	1,221,924
2016	11,357,117	5,056,745	4,926,785	116,586	1,257,001
Rolling 12 Months Ending in December					
2015	10,951,674	4,753,315	4,860,055	116,380	1,221,924
2016	11,357,117	5,056,745	4,926,785	116,586	1,257,001

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.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2006-December 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	282,530	25,257	227,381	25,250	4,642
2016	329,517	30,505	268,432	25,339	5,241
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	22,341	2,166	17,669	2,131	375
February	19,907	1,894	15,857	1,843	313
March	22,993	2,187	18,282	2,152	372
April	23,039	2,153	18,422	2,078	386
May	23,827	2,070	19,235	2,148	374
June	23,305	2,066	18,720	2,146	372
July	25,727	2,228	20,794	2,293	413
August	24,507	2,120	19,753	2,227	407
Sept	23,326	2,004	18,828	2,108	387
October	23,435	2,081	18,967	1,989	398
November	24,602	2,123	20,052	2,020	408
December	25,520	2,165	20,803	2,115	438
Year 2016					
January	28,779	2,572	23,258	2,481	467
February	26,323	2,469	21,261	2,183	410
March	26,918	2,473	21,197	2,724	524
April	27,153	2,585	22,247	1,867	454
May	27,948	2,606	22,797	2,071	473
June	26,392	2,389	21,901	1,729	372
July	27,016	2,395	22,290	1,916	415
August	28,815	2,711	23,770	1,924	410
Sept	26,511	2,506	21,856	1,769	382
October	28,975	2,862	23,249	2,417	447
November	26,381	2,417	21,441	2,091	433
December	28,306	2,521	23,165	2,166	455
Year to Date					
2014	285,982	25,819	228,447	27,038	4,678
2015	282,530	25,257	227,381	25,250	4,642
2016	329,517	30,505	268,432	25,339	5,241
Rolling 12 Months Ending in December					
2015	282,530	25,257	227,381	25,250	4,642
2016	329,517	30,505	268,432	25,339	5,241

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-December 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	1,522	2	644	515	362
2016	4,232	5	2,381	968	879
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	105	0	34	42	29
February	102	0	40	37	24
March	131	0	54	47	30
April	128	0	50	47	31
May	125	0	49	45	31
June	119	0	42	46	30
July	151	0	72	47	32
August	123	0	60	31	32
Sept	132	0	54	47	31
October	111	0	45	36	30
November	143	0	68	45	30
December	152	0	76	45	31
Year 2016					
January	400	0	221	98	81
February	406	1	231	90	85
March	597	0	335	133	129
April	471	1	268	100	103
May	289	0	155	71	63
June	161	0	108	30	22
July	242	0	150	50	42
August	207	1	121	50	36
Sept	148	0	85	40	23
October	499	2	264	124	109
November	395	0	214	90	90
December	418	0	230	93	96
Year to Date					
2014	1,710	176	525	674	335
2015	1,522	2	644	515	362
2016	4,232	5	2,381	968	879
Rolling 12 Months Ending in December					
2015	1,522	2	644	515	362
2016	4,232	5	2,381	968	879

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.
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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-December 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	284,052	25,259	228,024	25,765	5,004
2016	333,749	30,510	270,813	26,306	6,120
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	22,445	2,166	17,702	2,173	404
February	20,009	1,894	15,897	1,881	337
March	23,125	2,187	18,336	2,199	401
April	23,167	2,153	18,473	2,125	417
May	23,952	2,070	19,283	2,193	405
June	23,424	2,066	18,763	2,192	403
July	25,877	2,228	20,865	2,340	445
August	24,630	2,120	19,813	2,258	439
Sept	23,458	2,004	18,881	2,155	418
October	23,546	2,081	19,012	2,025	428
November	24,746	2,124	20,120	2,064	438
December	25,672	2,165	20,878	2,160	469
Year 2016					
January	29,179	2,573	23,479	2,579	548
February	26,729	2,469	21,492	2,273	494
March	27,515	2,473	21,532	2,858	652
April	27,624	2,586	22,514	1,967	557
May	28,236	2,606	22,952	2,142	536
June	26,553	2,390	22,009	1,759	395
July	27,258	2,395	22,439	1,966	457
August	29,022	2,711	23,891	1,974	446
Sept	26,660	2,506	21,941	1,808	405
October	29,474	2,864	23,513	2,541	556
November	26,776	2,417	21,655	2,182	523
December	28,724	2,521	23,395	2,259	551
Year to Date					
2014	287,692	25,995	228,971	27,713	5,013
2015	284,052	25,259	228,024	25,765	5,004
2016	333,749	30,510	270,813	26,306	6,120
Rolling 12 Months Ending in December					
2015	284,052	25,259	228,024	25,765	5,004
2016	333,749	30,510	270,813	26,306	6,120

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-December 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	16,631	452	13,797	2,375	8
2016	16,067	464	13,356	2,240	8
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	1,335	31	1,114	190	0
February	1,212	24	1,020	168	0
March	1,310	28	1,088	194	0
April	1,315	41	1,077	196	1
May	1,380	45	1,136	199	1
June	1,417	44	1,168	205	1
July	1,540	46	1,274	219	1
August	1,491	43	1,239	208	1
Sept	1,388	43	1,139	206	1
October	1,383	38	1,157	187	1
November	1,389	34	1,153	202	1
December	1,471	36	1,232	202	1
Year 2016					
January	1,341	34	1,123	183	1
February	1,215	27	1,030	157	1
March	1,270	41	1,018	209	1
April	1,370	40	1,133	196	1
May	1,382	44	1,157	182	1
June	1,383	40	1,157	186	0
July	1,404	37	1,163	203	1
August	1,427	42	1,190	195	0
Sept	1,311	43	1,093	175	0
October	1,260	37	1,043	179	1
November	1,294	39	1,069	184	0
December	1,409	38	1,180	190	1
Year to Date					
2014	16,706	444	13,809	2,447	6
2015	16,631	452	13,797	2,375	8
2016	16,067	464	13,356	2,240	8
Rolling 12 Months Ending in December					
2015	16,631	452	13,797	2,375	8
2016	16,067	464	13,356	2,240	8

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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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-December 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	1,986	0	655	1,127	203
2016	1,974	0	658	1,149	167
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	180	0	67	95	19
February	147	0	48	83	16
March	172	0	59	96	17
April	162	0	53	92	17
May	164	0	49	99	16
June	154	0	47	90	17
July	170	0	55	99	17
August	164	0	55	91	18
Sept	162	0	49	95	18
October	169	0	57	94	17
November	166	0	56	96	14
December	174	0	61	96	17
Year 2016					
January	164	0	62	89	13
February	169	0	72	84	13
March	198	0	80	103	15
April	165	0	51	100	14
May	157	0	48	95	14
June	160	0	51	94	16
July	175	0	53	106	16
August	162	0	49	100	14
Sept	151	0	45	94	13
October	142	0	46	86	10
November	161	0	51	96	14
December	170	0	52	103	15
Year to Date					
2014	1,955	0	650	1,104	200
2015	1,986	0	655	1,127	203
2016	1,974	0	658	1,149	167
Rolling 12 Months Ending in December					
2015	1,986	0	655	1,127	203
2016	1,974	0	658	1,149	167

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 2015 and prior years are final. Values for 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-December 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	18,617	452	14,452	3,502	211
2016	18,041	464	14,014	3,389	174
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	1,515	31	1,181	284	19
February	1,359	24	1,068	250	16
March	1,482	28	1,147	290	18
April	1,477	41	1,130	289	17
May	1,544	45	1,185	298	17
June	1,571	44	1,214	296	18
July	1,710	46	1,329	318	18
August	1,655	43	1,294	299	19
Sept	1,551	43	1,188	301	19
October	1,551	38	1,215	281	18
November	1,555	34	1,209	297	15
December	1,645	36	1,293	298	18
Year 2016					
January	1,505	34	1,185	272	14
February	1,383	27	1,102	241	14
March	1,468	41	1,098	312	16
April	1,536	40	1,184	297	15
May	1,539	44	1,205	277	14
June	1,544	40	1,207	280	16
July	1,579	37	1,216	309	17
August	1,590	42	1,239	294	15
Sept	1,462	43	1,138	269	13
October	1,402	37	1,089	265	11
November	1,455	39	1,120	281	15
December	1,578	38	1,231	293	16
Year to Date					
2014	18,661	444	14,459	3,551	206
2015	18,617	452	14,452	3,502	211
2016	18,041	464	14,014	3,389	174
Rolling 12 Months Ending in December					
2015	18,617	452	14,452	3,502	211
2016	18,041	464	14,014	3,389	174

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 2015 and prior years are final. Values for 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-December 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	406,650	43,919	171,387	504	190,840
2016	381,618	43,107	153,271	672	184,569
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	36,170	4,203	15,139	53	16,775
February	33,328	3,574	14,696	51	15,007
March	33,569	3,459	14,639	41	15,430
April	31,142	2,361	13,300	48	15,433
May	32,373	3,394	13,359	54	15,567
June	33,871	3,817	14,521	25	15,508
July	36,954	4,615	15,335	62	16,942
August	37,027	4,529	15,927	30	16,541
Sept	33,522	3,464	14,011	42	16,005
October	30,952	3,269	12,065	42	15,577
November	32,840	3,484	13,457	20	15,880
December	34,900	3,750	14,939	35	16,176
Year 2016					
January	34,287	4,250	13,946	62	16,028
February	32,746	3,992	13,892	58	14,803
March	32,635	3,528	13,931	26	15,150
April	27,119	2,672	10,235	42	14,171
May	29,056	2,739	10,908	19	15,391
June	32,206	3,928	12,661	80	15,537
July	34,444	4,286	14,099	70	15,990
August	34,893	4,290	14,544	120	15,939
Sept	31,815	3,558	13,060	67	15,131
October	28,597	2,676	10,881	37	15,003
November	29,901	2,839	11,531	30	15,500
December	33,919	4,349	13,583	61	15,926
Year to Date					
2014	431,285	45,643	174,513	961	210,167
2015	406,650	43,919	171,387	504	190,840
2016	381,618	43,107	153,271	672	184,569
Rolling 12 Months Ending in December					
2015	406,650	43,919	171,387	504	190,840
2016	381,618	43,107	153,271	672	184,569

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 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2006-December 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	943,962	9,351	19,200	3,714	911,697
2016	924,785	8,469	17,016	4,321	894,978
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	84,431	912	1,877	388	81,254
February	75,501	897	1,754	371	72,478
March	77,437	822	1,688	320	74,607
April	77,369	538	1,622	300	74,909
May	79,154	742	936	146	77,329
June	77,486	796	1,477	273	74,940
July	80,499	768	1,635	384	77,711
August	81,262	782	1,727	295	78,459
Sept	77,136	694	1,765	327	74,350
October	75,247	739	1,386	273	72,849
November	77,481	741	1,513	295	74,932
December	80,959	919	1,819	342	77,880
Year 2016					
January	82,391	864	1,751	471	79,306
February	75,353	893	1,750	412	72,298
March	75,758	871	1,365	274	73,249
April	73,341	710	1,395	344	70,893
May	76,050	659	1,339	271	73,780
June	77,024	563	1,356	375	74,730
July	78,025	689	1,273	363	75,700
August	77,846	709	1,280	423	75,434
Sept	73,401	411	1,426	363	71,201
October	73,927	349	1,084	328	72,167
November	78,622	789	1,415	321	76,098
December	83,046	962	1,583	377	80,124
Year to Date					
2014	946,344	8,835	22,262	3,766	911,481
2015	943,962	9,351	19,200	3,714	911,697
2016	924,785	8,469	17,016	4,321	894,978
Rolling 12 Months Ending in December					
2015	943,962	9,351	19,200	3,715	911,697
2016	924,785	8,469	17,016	4,321	894,978

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	276	85	223.0%	70	8	205	77	0	0	NM	1
Connecticut	55	0	--	0	0	55	0	0	0	0	0
Maine	2	1	41.0%	0	0	2	1	0	0	0	0
Massachusetts	149	76	95.0%	0	0	148	76	0	0	NM	0
New Hampshire	70	8	826.0%	70	8	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	2,692	2,058	31.0%	0	0	2,676	2,035	0	0	15	23
New Jersey	49	43	16.0%	0	0	49	43	0	0	0	0
New York	32	48	-34.0%	0	0	27	43	0	0	6	5
Pennsylvania	2,610	1,967	33.0%	0	0	2,600	1,949	0	0	10	18
East North Central	13,473	10,692	26.0%	8,045	6,923	5,359	3,693	2	2	67	75
Illinois	3,487	2,645	32.0%	180	151	3,257	2,442	2	1	49	51
Indiana	3,547	2,447	45.0%	3,400	2,202	146	244	1	1	NM	0
Michigan	2,014	2,246	-10.0%	1,985	2,221	23	19	0	0	6	7
Ohio	2,813	1,657	70.0%	879	664	1,933	988	0	0	NM	5
Wisconsin	1,613	1,696	-4.9%	1,602	1,684	0	0	0	0	11	12
West North Central	10,697	9,392	14.0%	10,585	9,278	NM	1	7	6	105	107
Iowa	1,437	1,139	26.0%	1,380	1,076	0	0	3	4	53	60
Kansas	1,424	990	44.0%	1,424	990	0	0	0	0	0	0
Minnesota	1,372	1,222	12.0%	1,349	1,217	0	0	NM	1	22	4
Missouri	3,053	2,737	12.0%	3,048	2,734	NM	1	3	2	NM	0
Nebraska	1,284	1,216	5.6%	1,261	1,183	0	0	0	0	23	33
North Dakota	1,977	1,957	1.0%	1,972	1,947	0	0	0	0	NM	9
South Dakota	151	132	15.0%	151	132	0	0	0	0	0	0
South Atlantic	9,067	6,098	49.0%	7,996	5,434	1,050	634	2	2	18	28
Delaware	7	2	229.0%	0	0	7	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,513	1,204	26.0%	1,511	1,187	0	14	0	0	3	3
Georgia	1,537	900	71.0%	1,532	897	0	0	0	0	4	3
Maryland	461	226	104.0%	0	0	459	224	0	0	2	2
North Carolina	1,199	571	110.0%	1,192	562	NM	5	1	1	2	3
South Carolina	766	467	64.0%	765	463	0	0	0	0	1	5
Virginia	731	533	37.0%	701	516	24	11	NM	1	6	6
West Virginia	2,853	2,195	30.0%	2,296	1,809	557	378	0	0	0	7
East South Central	6,200	4,627	34.0%	5,941	4,470	246	138	0	0	14	19
Alabama	1,470	1,324	11.0%	1,469	1,322	0	0	0	0	1	2
Kentucky	2,904	2,455	18.0%	2,904	2,455	0	0	0	0	0	0
Mississippi	359	158	127.0%	114	21	246	138	0	0	0	0
Tennessee	1,467	689	113.0%	1,454	672	0	0	0	0	12	17
West South Central	12,751	7,855	62.0%	6,423	3,935	6,319	3,905	0	0	8	16
Arkansas	1,732	649	167.0%	1,480	503	251	145	0	0	1	2
Louisiana	900	675	33.0%	609	536	291	139	0	0	0	0
Oklahoma	1,389	861	61.0%	1,283	755	100	93	0	0	7	14
Texas	8,729	5,669	54.0%	3,051	2,141	5,678	3,528	0	0	0	0
Mountain	8,929	8,573	4.1%	7,966	7,563	949	995	0	0	13	14
Arizona	1,656	1,494	11.0%	1,656	1,494	0	0	0	0	0	0
Colorado	1,652	1,578	4.7%	1,651	1,576	NM	2	0	0	NM	0
Idaho	NM	2	NM	0	0	0	0	0	0	NM	2
Montana	840	883	-4.9%	NM	26	820	857	0	0	NM	0
Nevada	49	103	-53.0%	0	51	49	52	0	0	0	0
New Mexico	1,106	1,037	6.6%	1,106	1,037	0	0	0	0	0	0
Utah	1,226	1,283	-4.4%	1,187	1,243	NM	40	0	0	0	0
Wyoming	2,400	2,193	9.4%	2,348	2,137	NM	44	0	0	12	12
Pacific Contiguous	700	719	-2.7%	219	225	473	486	0	0	7	8
California	6	7	-5.7%	0	0	0	0	0	0	6	7
Oregon	219	225	-2.6%	219	225	0	0	0	0	0	0
Washington	474	487	-2.7%	0	0	473	486	0	0	1	1
Pacific Noncontiguous	100	125	-20.0%	18	43	77	77	4	4	NM	1
Alaska	35	68	-49.0%	18	43	NM	21	4	4	0	0
Hawaii	65	57	14.0%	0	0	65	56	0	0	NM	1
U.S. Total	64,883	50,224	29.0%	47,265	37,878	17,356	12,041	15	14	249	292

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 for 2016 are preliminary. Values for 2015 are final. 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 December 2016 and December 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	1,249	1,795	-30.0%	194	406	1,048	1,377	0	0	7	12
Connecticut	128	359	-64.0%	0	0	128	359	0	0	0	0
Maine	16	22	-25.0%	0	0	12	13	0	0	4	8
Massachusetts	911	1,009	-9.7%	0	0	907	1,005	0	0	3	3
New Hampshire	194	406	-52.0%	194	406	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	27,060	32,755	-17.0%	0	0	26,852	32,513	0	1	208	241
New Jersey	553	753	-27.0%	0	0	553	753	0	0	0	0
New York	723	1,104	-34.0%	0	0	654	1,038	0	0	69	66
Pennsylvania	25,784	30,898	-17.0%	0	0	25,645	30,722	0	1	139	175
East North Central	143,512	164,983	-13.0%	86,824	96,932	55,884	67,141	28	38	776	873
Illinois	35,993	44,030	-18.0%	1,895	2,033	33,536	41,413	12	13	550	572
Indiana	36,125	39,116	-7.6%	34,330	36,320	1,782	2,786	12	10	1	0
Michigan	23,175	29,568	-22.0%	22,858	29,253	250	228	4	15	63	72
Ohio	29,124	30,576	-4.8%	8,766	7,804	20,316	22,714	0	0	42	58
Wisconsin	19,095	21,692	-12.0%	18,975	21,522	0	0	0	0	120	171
West North Central	115,593	125,028	-7.5%	114,257	123,424	10	13	59	58	1,268	1,533
Iowa	14,978	17,659	-15.0%	14,269	16,840	0	0	36	34	673	786
Kansas	14,587	15,851	-8.0%	14,587	15,851	0	0	0	0	0	0
Minnesota	13,896	14,649	-5.1%	13,644	14,338	0	0	6	5	245	306
Missouri	35,641	38,277	-6.9%	35,600	38,234	10	13	16	19	15	12
Nebraska	13,315	14,862	-10.0%	13,041	14,508	0	0	0	0	274	354
North Dakota	21,774	22,739	-4.2%	21,713	22,663	0	0	0	0	61	76
South Dakota	1,403	990	42.0%	1,403	990	0	0	0	0	0	0
South Atlantic	103,456	105,370	-1.8%	90,739	92,673	12,432	12,283	19	23	266	391
Delaware	227	276	-18.0%	0	0	227	276	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	17,651	19,053	-7.4%	17,341	18,581	274	437	0	0	36	35
Georgia	19,321	19,354	-0.2%	19,273	19,307	0	0	0	0	49	47
Maryland	5,971	6,046	-1.2%	0	0	5,950	6,015	0	0	21	31
North Carolina	14,818	15,634	-5.2%	14,645	15,436	129	151	11	14	33	33
South Carolina	8,643	9,238	-6.4%	8,601	9,183	0	0	0	0	41	55
Virginia	7,489	7,587	-1.3%	7,135	7,121	288	396	8	8	59	62
West Virginia	29,335	28,181	4.1%	23,744	23,045	5,564	5,008	0	0	27	128
East South Central	69,686	75,121	-7.2%	66,439	71,763	3,053	3,133	0	0	194	226
Alabama	17,478	21,049	-17.0%	17,459	21,025	0	0	0	0	20	24
Kentucky	32,103	34,381	-6.6%	32,103	34,381	0	0	0	0	0	0
Mississippi	4,519	4,830	-6.4%	1,466	1,697	3,053	3,133	0	0	0	0
Tennessee	15,586	14,862	4.9%	15,411	14,660	0	0	0	0	175	202
West South Central	121,097	126,189	-4.0%	58,328	62,331	62,602	63,662	0	0	167	196
Arkansas	14,079	12,830	9.7%	11,525	10,557	2,541	2,259	0	0	13	14
Louisiana	8,566	10,755	-20.0%	5,852	6,671	2,714	4,084	0	0	0	0
Oklahoma	12,322	15,825	-22.0%	10,977	14,453	1,191	1,191	0	0	154	182
Texas	86,130	86,779	-0.7%	29,975	30,651	56,155	56,129	0	0	0	0
Mountain	90,874	102,261	-11.0%	80,004	90,285	10,474	11,542	0	0	397	435
Arizona	16,639	19,812	-16.0%	16,639	19,812	0	0	0	0	0	0
Colorado	16,646	17,461	-4.7%	16,628	17,440	14	16	0	0	4	5
Idaho	13	16	-20.0%	0	0	0	0	0	0	13	16
Montana	9,389	10,283	-8.7%	203	221	9,179	10,057	0	0	7	5
Nevada	1,192	1,507	-21.0%	674	1,010	519	497	0	0	0	0
New Mexico	10,547	11,882	-11.0%	10,547	11,882	0	0	0	0	0	0
Utah	12,160	14,814	-18.0%	11,604	14,140	322	440	0	0	235	234
Wyoming	24,288	26,486	-8.3%	23,710	25,781	440	532	0	0	138	173
Pacific Contiguous	4,280	4,882	-12.0%	1,125	1,401	3,075	3,405	0	0	81	76
California	72	67	7.5%	0	0	0	0	0	0	72	67
Oregon	1,125	1,401	-20.0%	1,125	1,401	0	0	0	0	0	0
Washington	3,083	3,414	-9.7%	0	0	3,075	3,405	0	0	9	9
Pacific Noncontiguous	1,174	1,209	-2.9%	237	292	883	858	42	44	12	15
Alaska	433	556	-22.0%	237	292	154	220	42	44	0	0
Hawaii	741	653	14.0%	0	0	729	638	0	0	12	15
U.S. Total	677,981	739,594	-8.3%	498,146	539,506	176,311	195,927	148	163	3,376	3,999

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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, December 2016 and December 2015 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	149	28	433.0%	14	7	129	17	NM	3	2	1
Connecticut	27	4	659.0%	1	0	24	3	NM	0	NM	0
Maine	14	11	20.0%	NM	0	11	10	NM	0	2	1
Massachusetts	99	12	719.0%	4	6	93	4	NM	3	NM	0
New Hampshire	7	1	764.0%	6	1	NM	0	NM	0	NM	0
Rhode Island	NM	NM	NM	2	0	NM	0	NM	NM	0	0
Vermont	NM	0	NM	NM	0	0	0	NM	0	0	0
Middle Atlantic	188	74	153.0%	50	12	126	56	5	NM	7	4
New Jersey	30	4	601.0%	NM	0	30	4	NM	0	NM	0
New York	103	28	264.0%	50	12	46	13	4	NM	4	3
Pennsylvania	54	42	31.0%	NM	0	50	40	1	0	NM	1
East North Central	108	106	1.9%	48	55	56	46	NM	0	3	4
Illinois	11	12	-10.0%	1	1	10	11	NM	0	0	0
Indiana	19	20	-3.1%	17	18	NM	0	NM	0	2	2
Michigan	16	15	2.0%	15	15	0	0	0	0	0	1
Ohio	57	54	7.0%	11	18	46	35	NM	0	0	1
Wisconsin	4	4	-4.8%	4	4	0	0	NM	0	NM	0
West North Central	82	64	27.0%	80	63	NM	1	NM	0	NM	0
Iowa	19	21	-8.9%	19	21	NM	1	NM	0	NM	0
Kansas	13	15	-15.0%	13	15	0	0	0	0	0	0
Minnesota	NM	4	NM	8	3	NM	1	NM	0	NM	0
Missouri	26	17	49.0%	26	17	NM	0	NM	0	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	11	5	105.0%	11	5	0	0	NM	0	NM	0
South Dakota	NM	0	NM	NM	0	NM	0	NM	0	0	0
South Atlantic	223	183	22.0%	185	99	32	79	NM	0	6	5
Delaware	5	10	-49.0%	NM	0	5	10	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	67	32	112.0%	66	25	NM	6	0	0	NM	1
Georgia	9	15	-35.0%	7	12	1	0	NM	0	1	2
Maryland	17	9	89.0%	2	0	14	8	NM	0	NM	0
North Carolina	57	30	92.0%	55	21	NM	8	NM	0	NM	1
South Carolina	17	10	75.0%	14	8	NM	0	NM	0	3	1
Virginia	27	63	-57.0%	18	17	9	46	NM	0	NM	0
West Virginia	23	15	48.0%	23	15	0	1	0	0	0	0
East South Central	37	72	-49.0%	35	68	1	NM	0	0	1	3
Alabama	7	17	-58.0%	5	13	1	NM	0	0	NM	3
Kentucky	13	27	-51.0%	13	27	0	0	0	0	0	0
Mississippi	4	1	325.0%	4	1	0	0	0	0	0	0
Tennessee	13	28	-53.0%	13	27	NM	0	0	0	NM	0
West South Central	29	45	-36.0%	20	28	8	15	NM	0	1	1
Arkansas	10	13	-24.0%	8	8	1	5	0	0	0	0
Louisiana	2	12	-87.0%	2	11	0	0	0	0	0	0
Oklahoma	2	3	-44.0%	1	3	0	0	NM	0	NM	0
Texas	15	17	-7.5%	8	6	7	10	NM	0	NM	0
Mountain	34	35	-3.7%	30	31	4	5	NM	0	NM	0
Arizona	6	6	0.5%	6	6	0	0	NM	0	0	0
Colorado	NM	3	NM	NM	3	0	0	0	0	NM	0
Idaho	NM	0	NM	NM	0	0	0	0	0	0	0
Montana	NM	4	NM	NM	0	3	4	0	0	0	0
Nevada	1	2	-71.0%	0	1	1	1	0	0	0	0
New Mexico	12	10	20.0%	12	10	0	0	0	0	NM	0
Utah	NM	2	NM	5	2	NM	0	0	0	NM	0
Wyoming	3	8	-58.0%	3	8	0	0	0	0	NM	0
Pacific Contiguous	20	21	-4.6%	9	6	9	12	NM	0	2	2
California	12	13	-3.4%	5	5	6	7	NM	0	NM	0
Oregon	3	0	NM	3	0	0	0	NM	0	0	0
Washington	5	8	-38.0%	NM	1	2	5	NM	0	2	2
Pacific Noncontiguous	1,030	953	8.1%	881	808	104	122	NM	2	NM	20
Alaska	198	94	111.0%	188	88	0	0	NM	1	9	5
Hawaii	833	860	-3.2%	693	721	104	122	0	1	NM	16
U.S. Total	1,899	1,581	20.0%	1,350	1,177	470	354	13	8	67	42

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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 December 2016 and December 2015 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	1,194	3,440	-65.0%	114	350	1,002	2,940	52	102	26	49
Connecticut	222	737	-70.0%	11	12	190	691	NM	20	8	14
Maine	238	927	-74.0%	NM	0	216	884	NM	8	18	35
Massachusetts	627	1,325	-53.0%	33	100	572	1,175	23	50	NM	0
New Hampshire	58	291	-80.0%	47	208	NM	70	8	14	NM	0
Rhode Island	44	151	-71.0%	20	23	20	120	NM	9	0	0
Vermont	NM	8	NM	NM	7	0	0	NM	2	0	0
Middle Atlantic	1,896	4,680	-59.0%	626	1,419	1,164	3,100	39	72	67	90
New Jersey	158	496	-68.0%	NM	7	149	481	NM	1	4	7
New York	1,172	3,101	-62.0%	620	1,410	488	1,571	29	65	35	54
Pennsylvania	566	1,083	-48.0%	NM	1	528	1,048	9	6	29	29
East North Central	1,064	1,106	-3.8%	630	699	405	369	6	4	25	34
Illinois	129	107	20.0%	11	17	117	90	1	0	0	0
Indiana	207	287	-28.0%	191	264	NM	0	NM	1	16	23
Michigan	244	222	9.6%	236	216	0	0	3	2	5	4
Ohio	419	422	-0.9%	130	142	284	274	NM	1	4	6
Wisconsin	66	67	-1.5%	62	61	4	5	NM	0	1	1
West North Central	535	590	-9.3%	515	569	NM	15	4	4	2	2
Iowa	123	95	29.0%	120	92	2	2	NM	0	NM	0
Kansas	104	110	-5.9%	104	110	0	0	0	0	0	0
Minnesota	64	69	-7.3%	47	51	NM	13	4	4	1	1
Missouri	161	209	-23.0%	161	209	NM	0	NM	0	0	0
Nebraska	16	16	-0.9%	16	16	0	0	0	0	0	0
North Dakota	59	53	11.0%	58	52	0	0	NM	0	1	1
South Dakota	10	38	-74.0%	10	38	NM	0	NM	0	0	0
South Atlantic	4,022	5,463	-26.0%	3,078	4,014	842	1,300	11	48	92	101
Delaware	98	255	-61.0%	NM	8	93	246	0	0	0	0
District of Columbia	NM	0	NM	0	0	0	0	NM	0	0	0
Florida	1,427	1,100	30.0%	1,389	1,062	NM	26	0	0	13	12
Georgia	208	284	-27.0%	135	156	39	86	4	5	30	37
Maryland	369	484	-24.0%	20	23	344	419	NM	40	2	2
North Carolina	500	801	-38.0%	422	723	68	62	NM	1	9	15
South Carolina	221	385	-43.0%	185	342	NM	14	NM	0	33	29
Virginia	982	1,907	-49.0%	713	1,475	262	424	NM	2	4	6
West Virginia	216	247	-13.0%	207	224	9	23	0	0	0	0
East South Central	570	691	-17.0%	530	639	13	22	NM	0	27	30
Alabama	87	153	-43.0%	51	104	13	22	0	0	24	27
Kentucky	212	244	-13.0%	212	244	0	0	0	0	0	0
Mississippi	35	31	14.0%	33	29	0	0	0	0	2	1
Tennessee	236	264	-10.0%	235	262	NM	1	NM	0	1	1
West South Central	295	463	-36.0%	193	272	91	174	NM	1	9	15
Arkansas	76	108	-29.0%	57	75	16	23	0	0	4	9
Louisiana	30	125	-76.0%	27	99	3	25	0	0	0	1
Oklahoma	33	20	68.0%	31	17	0	0	NM	0	2	3
Texas	155	211	-26.0%	79	81	72	126	NM	1	NM	2
Mountain	419	424	-1.4%	373	384	45	39	NM	0	NM	1
Arizona	99	92	7.1%	99	92	0	0	NM	0	0	0
Colorado	23	24	-2.9%	23	23	0	0	0	0	NM	0
Idaho	NM	0	NM	NM	0	0	0	0	0	0	0
Montana	38	32	20.0%	NM	1	38	31	0	0	0	0
Nevada	22	31	-30.0%	16	25	6	NM	0	0	0	0
New Mexico	98	126	-23.0%	98	126	0	0	0	0	NM	0
Utah	54	34	57.0%	52	32	NM	1	0	0	NM	1
Wyoming	85	85	0.3%	85	85	0	0	0	0	NM	0
Pacific Contiguous	194	213	-9.0%	75	81	39	83	NM	1	78	48
California	150	164	-9.1%	63	67	21	65	NM	1	65	32
Oregon	8	11	-20.0%	8	11	0	0	NM	0	0	0
Washington	36	38	-5.4%	NM	4	18	17	NM	1	13	16
Pacific Noncontiguous	11,036	11,856	-6.9%	9,535	10,137	1,226	1,431	18	17	257	272
Alaska	1,438	1,346	6.8%	1,355	1,260	0	0	8	7	75	79
Hawaii	9,598	10,510	-8.7%	8,180	8,877	1,226	1,431	10	9	182	193
U.S. Total	21,224	28,925	-27.0%	15,667	18,562	4,841	9,473	132	249	584	641

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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, December 2016 and December 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 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	5	4	19.0%	0	0	0	0	0	0	5	4
New Jersey	NM	1	NM	0	0	0	0	0	0	NM	1
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	4	NM	0	0	0	0	0	0	NM	4
East North Central	65	59	12.0%	21	44	40	11	0	0	4	4
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	39	-100.0%	0	39	0	0	0	0	0	0
Michigan	22	4	459.0%	18	0	0	2	0	0	4	2
Ohio	40	9	332.0%	0	0	40	9	0	0	0	0
Wisconsin	3	7	-58.0%	2	5	0	0	0	0	0	2
West North Central	2	1	82.0%	0	0	0	0	0	0	NM	1
Iowa	2	1	82.0%	0	0	0	0	0	0	NM	1
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	38	41	-6.6%	36	39	0	0	0	0	3	2
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	36	39	-8.6%	36	39	0	0	0	0	0	0
Georgia	3	2	30.0%	0	0	0	0	0	0	3	2
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	30	24	29.0%	30	24	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	30	24	29.0%	30	24	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	180	132	36.0%	174	126	0	0	0	0	6	7
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	177	129	37.0%	174	126	0	0	0	0	3	4
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3	3	0.2%	0	0	0	0	0	0	3	3
Mountain	16	15	6.2%	0	0	16	15	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	16	15	6.2%	0	0	16	15	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	337	276	22.0%	261	232	56	26	0	0	21	18

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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 December 2016 and December 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 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	62	55	12.0%	0	0	0	0	0	0	62	55
New Jersey	15	7	124.0%	0	0	0	0	0	0	15	7
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	47	48	-3.5%	0	0	0	0	0	0	47	48
East North Central	964	1,238	-22.0%	482	700	431	487	0	0	51	52
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	159	387	-59.0%	159	387	0	0	0	0	0	0
Michigan	324	321	0.9%	283	280	1	15	0	0	40	27
Ohio	432	473	-8.6%	0	0	430	472	0	0	2	1
Wisconsin	49	57	-14.0%	41	34	0	0	0	0	8	23
West North Central	26	18	45.0%	0	0	0	0	1	2	25	16
Iowa	26	18	45.0%	0	0	0	0	1	2	25	16
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	765	597	28.0%	739	566	0	0	0	0	26	30
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	739	566	30.0%	739	566	0	0	0	0	0	0
Georgia	26	30	-14.0%	0	0	0	0	0	0	26	30
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	439	369	19.0%	439	369	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	439	369	19.0%	439	369	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	1,851	1,585	17.0%	1,771	1,485	0	0	0	0	80	100
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,807	1,518	19.0%	1,771	1,485	0	0	0	0	36	33
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	44	68	-35.0%	0	0	0	0	0	0	44	68
Mountain	168	182	-7.6%	0	0	168	182	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	168	182	-7.6%	0	0	168	182	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	4,275	4,044	5.7%	3,431	3,120	600	669	1	2	243	253

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 for 2016 are preliminary. Values for 2015 are final. 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, December 2016 and December 2015 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	27,108	28,842	-6.0%	81	245	25,718	27,189	689	652	620	756
Connecticut	10,085	12,018	-16.0%	6	76	9,431	11,093	NM	374	NM	476
Maine	999	1,646	-39.0%	0	0	815	1,427	NM	29	158	190
Massachusetts	10,908	9,334	17.0%	48	168	10,454	8,884	315	200	NM	81
New Hampshire	2,228	2,731	-18.0%	25	0	2,175	2,706	NM	16	NM	9
Rhode Island	2,886	3,112	-7.3%	0	0	2,844	3,079	NM	33	0	0
Vermont	NM	1	NM	2	1	0	0	NM	0	0	0
Middle Atlantic	92,584	87,464	5.9%	7,150	9,034	83,595	76,513	891	895	948	1,022
New Jersey	20,888	21,568	-3.1%	NM	73	20,476	21,103	NM	145	NM	247
New York	33,133	30,170	9.8%	7,084	8,958	25,186	20,354	674	643	188	215
Pennsylvania	38,563	35,727	7.9%	NM	3	37,933	35,056	NM	107	534	561
East North Central	59,742	64,488	-7.4%	25,660	29,874	31,530	31,827	810	1,015	1,742	1,772
Illinois	8,579	8,472	1.3%	758	500	7,299	7,161	261	383	260	428
Indiana	13,665	13,419	1.8%	10,832	10,071	2,396	2,814	81	87	356	446
Michigan	15,229	15,788	-3.5%	4,580	4,847	9,492	9,882	317	339	840	721
Ohio	15,609	17,152	-9.0%	3,844	5,305	11,572	11,655	NM	151	94	40
Wisconsin	6,659	9,657	-31.0%	5,645	9,151	770	315	52	54	193	136
West North Central	9,708	12,304	-21.0%	7,470	10,196	1,391	1,246	222	274	626	587
Iowa	1,248	1,922	-35.0%	713	1,564	NM	0	NM	52	482	306
Kansas	940	670	40.0%	931	647	0	0	0	0	NM	23
Minnesota	3,021	5,969	-49.0%	2,339	5,244	442	299	151	210	88	216
Missouri	3,471	2,818	23.0%	2,486	1,817	949	948	17	12	NM	41
Nebraska	213	129	65.0%	196	129	0	0	NM	0	NM	0
North Dakota	543	174	212.0%	NM	172	0	0	0	0	NM	2
South Dakota	272	622	-56.0%	272	622	0	0	0	0	0	0
South Atlantic	158,057	181,882	-13.0%	137,064	150,677	17,872	27,987	547	505	2,574	2,713
Delaware	3,195	3,412	-6.4%	NM	21	2,223	2,228	0	0	933	1,162
District of Columbia	NM	51	NM	0	0	0	0	NM	51	0	0
Florida	76,859	89,803	-14.0%	73,731	84,968	2,400	4,025	NM	16	713	793
Georgia	26,143	27,881	-6.2%	22,106	20,912	3,745	6,674	0	0	291	295
Maryland	1,237	2,773	-55.0%	0	0	726	2,315	NM	422	40	36
North Carolina	21,787	22,537	-3.3%	19,187	20,246	2,520	2,195	11	8	69	88
South Carolina	7,407	11,817	-37.0%	6,857	10,300	455	1,488	0	2	95	27
Virginia	21,026	23,099	-9.0%	15,087	14,216	5,724	8,565	NM	7	209	311
West Virginia	358	509	-30.0%	56	12	NM	496	0	0	224	0
East South Central	72,740	69,404	4.8%	49,841	41,809	21,576	26,303	NM	114	1,229	1,178
Alabama	31,376	33,845	-7.3%	10,631	9,116	20,051	23,986	0	0	694	743
Kentucky	5,552	3,477	60.0%	5,159	3,333	262	0	0	0	132	144
Mississippi	27,609	25,724	7.3%	26,136	23,217	1,264	2,317	NM	3	207	187
Tennessee	8,203	6,358	29.0%	7,915	6,144	0	0	NM	111	196	103
West South Central	162,883	210,812	-23.0%	45,809	69,059	75,200	99,737	556	603	41,318	41,412
Arkansas	6,737	6,357	6.0%	2,024	2,933	4,533	3,248	NM	2	178	175
Louisiana	36,390	48,736	-25.0%	15,544	25,454	2,672	5,217	NM	154	18,034	17,912
Oklahoma	16,498	23,157	-29.0%	11,288	16,731	5,121	6,295	NM	0	90	131
Texas	103,257	132,561	-22.0%	16,952	23,941	62,875	84,978	413	448	23,017	23,195
Mountain	46,121	61,002	-24.0%	35,087	47,293	9,689	12,303	366	401	979	1,005
Arizona	9,681	17,592	-45.0%	6,143	11,613	3,434	5,876	NM	102	0	0
Colorado	6,985	8,274	-16.0%	5,533	7,003	1,432	1,247	0	0	NM	24
Idaho	1,868	2,928	-36.0%	912	1,608	854	1,213	0	35	103	72
Montana	NM	789	NM	NM	716	NM	73	0	0	0	0
Nevada	15,866	18,295	-13.0%	14,221	16,604	1,427	1,436	NM	54	152	201
New Mexico	6,133	6,957	-12.0%	3,599	4,422	2,418	2,408	116	127	0	0
Utah	4,653	5,747	-19.0%	4,135	5,254	NM	49	NM	83	361	360
Wyoming	448	420	6.7%	NM	72	NM	0	0	0	344	348
Pacific Contiguous	75,598	88,304	-14.0%	32,252	32,535	36,065	48,019	1,335	1,288	5,946	6,463
California	56,080	67,339	-17.0%	21,165	22,432	27,802	37,333	1,274	1,219	5,840	6,354
Oregon	12,282	11,841	3.7%	6,365	4,788	5,827	6,921	NM	60	37	70
Washington	7,236	9,125	-21.0%	4,722	5,314	2,436	3,764	NM	8	69	38
Pacific Noncontiguous	1,834	2,717	-32.0%	1,753	2,636	0	0	NM	0	NM	82
Alaska	1,834	2,717	-32.0%	1,753	2,636	0	0	NM	0	NM	82
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	706,376	807,219	-12.0%	342,166	393,358	302,636	351,123	5,512	5,748	56,061	56,990

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	401,516	404,268	-0.7%	2,988	4,386	380,835	382,202	8,992	9,325	8,701	8,355
Connecticut	130,463	128,326	1.7%	47	267	121,761	119,063	3,841	3,913	4,814	5,082
Maine	25,140	20,260	24.0%	0	0	22,352	17,888	NM	356	2,479	2,017
Massachusetts	164,123	162,051	1.3%	2,451	3,792	156,383	152,881	4,015	4,262	1,275	1,116
New Hampshire	34,207	43,066	-21.0%	476	307	33,365	42,366	NM	253	NM	140
Rhode Island	47,566	50,545	-5.9%	0	0	46,974	50,005	592	539	0	0
Vermont	NM	21	NM	14	19	0	0	NM	2	0	0
Middle Atlantic	1,292,909	1,180,966	9.5%	117,953	116,143	1,152,383	1,042,537	10,689	10,628	11,885	11,658
New Jersey	319,115	275,564	16.0%	NM	737	313,554	269,860	1,716	1,816	3,041	3,150
New York	472,685	467,122	1.2%	117,068	115,373	345,525	342,188	7,781	7,515	2,311	2,046
Pennsylvania	501,110	438,280	14.0%	NM	33	493,304	430,488	1,191	1,297	6,533	6,461
East North Central	878,454	684,073	28.0%	390,273	305,678	458,370	350,516	10,302	10,439	19,510	17,441
Illinois	149,116	87,371	71.0%	14,313	5,464	128,310	74,372	3,124	4,080	3,368	3,455
Indiana	158,518	125,064	27.0%	124,719	96,816	28,689	23,024	1,137	994	3,973	4,230
Michigan	240,575	164,114	47.0%	89,030	54,569	137,822	98,273	3,997	3,511	9,726	7,762
Ohio	211,584	208,398	1.5%	55,623	57,059	154,100	149,307	1,345	1,306	516	726
Wisconsin	118,662	99,125	20.0%	106,590	91,769	9,448	5,540	699	548	1,926	1,268
West North Central	185,737	143,077	30.0%	152,628	120,123	24,099	16,237	3,626	3,042	5,385	3,674
Iowa	23,985	18,776	28.0%	20,224	16,198	NM	0	669	542	3,089	2,036
Kansas	21,023	15,182	38.0%	20,323	14,624	0	0	0	0	700	558
Minnesota	67,276	54,364	24.0%	52,946	45,920	11,404	6,055	1,868	1,646	1,058	743
Missouri	50,606	37,925	33.0%	36,546	26,653	12,693	10,183	1,082	850	286	239
Nebraska	6,494	4,266	52.0%	6,358	4,255	0	0	NM	4	128	7
North Dakota	8,780	6,437	36.0%	8,656	6,346	0	0	0	0	123	91
South Dakota	7,574	6,128	24.0%	7,574	6,128	0	0	0	0	0	0
South Atlantic	2,420,765	2,288,760	5.8%	1,947,191	1,864,143	436,263	388,423	7,254	7,551	30,057	28,643
Delaware	65,922	57,235	15.0%	NM	367	53,406	45,067	0	0	12,012	11,801
District of Columbia	605	648	-6.7%	0	0	0	0	605	648	0	0
Florida	1,186,004	1,163,471	1.9%	1,080,105	1,086,206	96,747	68,114	270	208	8,882	8,944
Georgia	381,872	358,959	6.4%	295,176	262,095	83,292	93,261	0	0	3,404	3,603
Maryland	53,808	44,642	21.0%	0	0	47,131	37,782	6,193	6,551	483	310
North Carolina	294,705	270,320	9.0%	254,924	239,576	38,745	29,779	77	54	959	912
South Carolina	131,997	135,505	-2.6%	106,480	119,264	24,924	15,980	NM	21	555	240
Virginia	294,394	244,760	20.0%	208,466	155,303	83,375	86,553	NM	70	2,482	2,833
West Virginia	11,457	13,219	-13.0%	1,536	1,332	8,642	11,887	0	0	1,280	0
East South Central	948,801	862,559	10.0%	625,406	533,813	308,633	313,289	1,284	1,255	13,478	14,202
Alabama	420,163	404,213	3.9%	131,708	111,635	280,946	283,612	0	0	7,509	8,967
Kentucky	68,565	53,503	28.0%	61,395	45,788	5,512	5,935	0	0	1,658	1,780
Mississippi	369,459	332,923	11.0%	344,839	306,850	22,175	23,742	NM	34	2,398	2,296
Tennessee	90,614	71,920	26.0%	87,463	69,540	0	0	1,237	1,221	1,913	1,159
West South Central	2,611,456	2,636,288	-0.9%	888,333	862,132	1,238,171	1,307,140	7,696	7,298	477,255	459,718
Arkansas	131,882	105,102	25.0%	55,865	34,791	74,294	68,332	NM	24	1,699	1,954
Louisiana	531,486	531,883	-0.1%	280,565	305,826	43,179	29,480	1,663	1,679	206,079	194,898
Oklahoma	275,419	255,418	7.8%	192,095	169,886	82,235	84,483	88	0	1,001	1,048
Texas	1,672,668	1,743,885	-4.1%	359,808	351,629	1,038,464	1,124,844	5,921	5,595	268,477	261,818
Mountain	740,868	727,043	1.9%	549,854	525,578	175,742	185,807	4,041	4,578	11,231	11,081
Arizona	256,736	249,798	2.8%	149,694	139,541	105,837	108,784	1,204	1,472	0	0
Colorado	92,885	89,735	3.5%	76,831	70,440	15,793	19,043	14	3	247	249
Idaho	24,381	28,013	-13.0%	14,193	16,437	9,332	10,882	0	163	857	531
Montana	7,306	6,558	11.0%	6,601	5,956	705	602	0	0	0	0
Nevada	209,148	209,654	-0.2%	190,283	190,075	15,721	16,286	693	699	2,451	2,594
New Mexico	82,057	77,051	6.5%	54,076	47,060	26,704	28,614	1,259	1,364	NM	13
Utah	62,935	61,376	2.5%	56,342	54,843	1,641	1,587	870	877	4,083	4,069
Wyoming	5,420	4,859	12.0%	1,834	1,226	NM	8	0	0	3,576	3,626
Pacific Contiguous	896,453	1,058,400	-15.0%	348,658	383,053	467,586	590,531	14,742	15,976	65,468	68,840
California	706,771	850,427	-17.0%	246,416	278,479	381,872	488,483	14,025	15,325	64,458	68,140
Oregon	106,923	112,912	-5.3%	52,263	46,156	53,588	65,790	622	571	451	395
Washington	82,759	95,061	-13.0%	49,979	58,419	32,126	36,257	95	80	559	305
Pacific Noncontiguous	23,236	31,139	-25.0%	22,236	30,207	0	0	NM	0	986	933
Alaska	23,236	31,139	-25.0%	22,236	30,207	0	0	NM	0	986	933
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	10,400,195	10,016,576	3.8%	5,045,520	4,745,255	4,642,081	4,576,683	68,639	70,092	643,955	624,545

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 for 2016 are preliminary. Values for 2015 are final. 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, December 2016 and December 2015 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	1,083	989	9.5%	0	0	1,013	945	70	44	0	0
Connecticut	NM	45	NM	0	0	NM	45	0	0	0	0
Maine	80	77	4.9%	0	0	80	77	0	0	0	0
Massachusetts	387	324	19.0%	0	0	387	324	0	0	0	0
New Hampshire	178	132	35.0%	0	0	108	87	70	44	0	0
Rhode Island	347	364	-4.6%	0	0	347	364	0	0	0	0
Vermont	NM	48	NM	0	0	NM	48	0	0	0	0
Middle Atlantic	5,467	4,990	9.6%	0	0	5,216	4,758	105	77	145	155
New Jersey	882	800	10.0%	0	0	843	772	NM	28	0	0
New York	1,615	1,433	13.0%	0	0	1,615	1,433	0	0	0	0
Pennsylvania	2,970	2,757	7.7%	0	0	2,758	2,554	66	49	145	155
East North Central	6,879	5,245	31.0%	810	568	5,984	4,593	NM	19	64	65
Illinois	1,453	1,247	16.0%	NM	34	1,410	1,213	0	0	0	0
Indiana	891	624	43.0%	751	517	115	85	0	0	NM	22
Michigan	2,078	1,485	40.0%	0	0	2,078	1,485	0	0	0	0
Ohio	1,193	889	34.0%	0	0	1,193	889	0	0	0	0
Wisconsin	1,265	999	27.0%	NM	17	1,188	921	NM	19	NM	43
West North Central	1,165	840	39.0%	294	285	870	555	0	0	0	0
Iowa	299	144	108.0%	0	0	299	144	0	0	0	0
Kansas	156	122	28.0%	0	0	156	122	0	0	0	0
Minnesota	374	290	29.0%	NM	67	299	223	0	0	0	0
Missouri	193	122	58.0%	NM	56	116	66	0	0	0	0
Nebraska	143	162	-12.0%	143	162	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	4,821	5,370	-10.0%	483	500	3,833	4,370	260	282	245	218
Delaware	163	153	6.6%	0	0	142	137	0	0	NM	15
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	644	812	-21.0%	154	168	489	640	NM	1	0	3
Georgia	469	496	-5.5%	0	0	416	444	0	0	NM	52
Maryland	237	211	12.0%	0	0	161	145	NM	67	0	0
North Carolina	1,191	1,928	-38.0%	0	0	1,040	1,737	151	192	0	0
South Carolina	532	507	4.9%	322	325	NM	33	0	0	172	148
Virginia	1,573	1,247	26.0%	NM	6	1,535	1,218	NM	23	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	541	353	54.0%	213	145	329	208	0	0	0	0
Alabama	109	71	54.0%	0	0	109	71	0	0	0	0
Kentucky	229	155	47.0%	213	145	NM	10	0	0	0	0
Mississippi	NM	17	NM	0	0	NM	17	0	0	0	0
Tennessee	178	110	62.0%	0	0	178	110	0	0	0	0
West South Central	1,883	1,820	3.5%	0	0	1,805	1,751	NM	69	0	0
Arkansas	181	136	33.0%	0	0	181	136	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	27	NM	0	0	NM	27	0	0	0	0
Texas	1,671	1,657	0.8%	0	0	1,593	1,588	NM	69	0	0
Mountain	560	494	13.0%	NM	25	474	423	NM	47	0	0
Arizona	104	90	15.0%	0	0	104	90	0	0	0	0
Colorado	117	114	1.8%	0	0	117	114	0	0	0	0
Idaho	97	89	8.4%	NM	25	NM	49	NM	15	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	49	NM	0	0	NM	49	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	184	152	21.0%	0	0	146	120	NM	32	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,773	5,343	8.0%	692	642	3,641	3,201	1,440	1,500	0	0
California	4,682	4,567	2.5%	186	279	3,106	2,825	1,390	1,464	0	0
Oregon	599	447	34.0%	142	120	408	290	NM	36	0	0
Washington	491	329	49.0%	364	243	127	86	0	0	0	0
Pacific Noncontiguous	135	77	74.0%	0	0	0	0	135	77	0	0
Alaska	135	77	74.0%	0	0	0	0	135	77	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	28,306	25,520	11.0%	2,521	2,165	23,165	20,803	2,166	2,115	455	438

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	12,763	11,497	11.0%	0	0	11,947	10,952	816	546	0	0
Connecticut	538	490	9.8%	0	0	538	490	0	0	0	0
Maine	947	849	11.0%	0	0	947	849	0	0	0	0
Massachusetts	4,500	3,801	18.0%	0	0	4,500	3,801	0	0	0	0
New Hampshire	2,114	1,625	30.0%	0	0	1,298	1,079	816	546	0	0
Rhode Island	4,131	4,191	-1.4%	0	0	4,131	4,191	0	0	0	0
Vermont	533	541	-1.4%	0	0	533	541	0	0	0	0
Middle Atlantic	62,048	55,414	12.0%	0	0	59,214	52,918	1,164	826	1,671	1,670
New Jersey	10,457	9,051	16.0%	0	0	10,018	8,748	438	303	0	0
New York	18,802	16,083	17.0%	0	0	18,802	16,083	0	0	0	0
Pennsylvania	32,789	30,281	8.3%	0	0	30,393	28,088	725	523	1,671	1,670
East North Central	79,615	64,333	24.0%	9,420	7,114	69,128	56,208	270	227	797	784
Illinois	16,904	13,620	24.0%	497	371	16,407	13,249	0	0	0	0
Indiana	10,327	7,889	31.0%	8,683	6,539	1,319	1,071	0	0	325	279
Michigan	24,155	19,708	23.0%	0	0	24,155	19,708	0	0	0	0
Ohio	13,720	11,248	22.0%	0	0	13,720	11,248	0	0	0	0
Wisconsin	14,508	11,868	22.0%	240	204	13,527	10,932	270	227	471	505
West North Central	13,933	10,779	29.0%	3,958	2,977	9,975	7,802	0	0	0	0
Iowa	3,396	2,604	30.0%	0	0	3,396	2,604	0	0	0	0
Kansas	1,781	1,380	29.0%	0	0	1,781	1,380	0	0	0	0
Minnesota	4,433	3,502	27.0%	1,007	736	3,426	2,767	0	0	0	0
Missouri	2,509	1,937	30.0%	1,137	885	1,371	1,052	0	0	0	0
Nebraska	1,814	1,356	34.0%	1,814	1,356	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	56,144	48,003	17.0%	5,720	5,538	44,731	38,084	2,919	2,193	2,774	2,188
Delaware	1,884	1,592	18.0%	0	0	1,656	1,432	0	0	228	160
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	7,457	8,797	-15.0%	1,727	2,075	5,694	6,684	NM	7	NM	31
Georgia	5,361	4,423	21.0%	0	0	4,771	3,892	0	77	590	454
Maryland	2,812	2,411	17.0%	0	0	1,953	1,651	859	760	0	0
North Carolina	13,723	10,907	26.0%	0	0	12,017	9,822	1,706	1,085	0	0
South Carolina	6,277	5,281	19.0%	3,900	3,391	447	347	0	0	1,930	1,544
Virginia	18,461	14,441	28.0%	NM	72	18,025	14,105	343	264	0	0
West Virginia	168	151	12.0%	0	0	168	151	0	0	0	0
East South Central	6,282	5,061	24.0%	2,478	2,044	3,804	3,017	0	0	0	0
Alabama	1,241	1,028	21.0%	0	0	1,241	1,028	0	0	0	0
Kentucky	2,670	2,197	22.0%	2,478	2,044	193	153	0	0	0	0
Mississippi	303	227	34.0%	0	0	303	227	0	0	0	0
Tennessee	2,067	1,609	28.0%	0	0	2,067	1,609	0	0	0	0
West South Central	21,626	17,375	24.0%	0	0	20,751	16,725	875	649	0	0
Arkansas	2,039	1,572	30.0%	0	0	2,039	1,572	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	381	297	28.0%	0	0	381	297	0	0	0	0
Texas	19,205	15,507	24.0%	0	0	18,331	14,857	875	649	0	0
Mountain	6,400	5,785	11.0%	347	561	5,396	4,705	657	519	0	0
Arizona	1,183	1,280	-7.6%	0	281	1,183	999	0	0	0	0
Colorado	1,325	1,274	4.0%	0	0	1,325	1,274	0	0	0	0
Idaho	1,132	994	14.0%	347	279	545	549	240	166	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	680	544	25.0%	0	0	680	544	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	2,080	1,692	23.0%	0	0	1,663	1,339	417	353	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	69,191	63,191	9.5%	8,582	7,024	43,487	36,969	17,123	19,198	0	0
California	56,711	53,431	6.1%	2,814	2,647	37,335	32,043	16,562	18,741	0	0
Oregon	6,852	5,632	22.0%	1,627	1,511	4,664	3,664	561	457	0	0
Washington	5,629	4,128	36.0%	4,141	2,866	1,488	1,262	0	0	0	0
Pacific Noncontiguous	1,516	1,091	39.0%	0	0	0	0	1,516	1,091	0	0
Alaska	1,516	1,091	39.0%	0	0	0	0	1,516	1,091	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	329,517	282,530	17.0%	30,505	25,257	268,432	227,381	25,339	25,250	5,241	4,642

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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, December 2016 and December 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	311	323	-3.6%	0	0	295	307	17	16	0	0
Connecticut	102	115	-11.0%	0	0	102	115	0	0	0	0
Maine	25	26	-6.7%	0	0	8	11	17	16	0	0
Massachusetts	175	171	2.1%	0	0	175	171	0	0	0	0
New Hampshire	10	10	-5.0%	0	0	10	10	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	450	476	-5.5%	0	0	362	377	87	99	0	0
New Jersey	120	127	-5.1%	0	0	89	97	31	30	0	0
New York	167	176	-4.9%	0	0	129	130	38	45	0	0
Pennsylvania	162	173	-6.4%	0	0	143	150	19	24	0	0
East North Central	18	22	-18.0%	3	3	0	0	15	19	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	-14.0%	0	0	0	0	1	1	0	0
Michigan	15	18	-20.0%	0	0	0	0	15	18	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-11.0%	3	3	0	0	0	0	0	0
West North Central	53	56	-4.9%	35	33	16	20	2	2	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	53	56	-4.9%	35	33	16	20	2	2	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	474	491	-3.5%	0	0	443	455	31	36	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	327	334	-2.1%	0	0	327	334	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	57	70	-19.0%	0	0	57	70	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	90	87	3.3%	0	0	59	51	31	36	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	1	1	-41.0%	0	0	0	0	0	0	1	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	-41.0%	0	0	0	0	0	0	1	1
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	NM	0	NM	0	0	NM	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	NM	0	NM	0	0	NM	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	64	72	-11.0%	0	0	64	72	0	0	0	0
California	44	49	-11.0%	0	0	44	49	0	0	0	0
Oregon	8	12	-31.0%	0	0	8	12	0	0	0	0
Washington	12	11	4.7%	0	0	12	11	0	0	0	0
Pacific Noncontiguous	38	30	26.0%	0	0	0	0	38	30	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	38	30	26.0%	0	0	0	0	38	30	0	0
U.S. Total	1,409	1,471	-4.3%	38	36	1,180	1,232	190	202	1	1

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	3,564	3,763	-5.3%	0	0	3,378	3,553	186	211	0	0
Connecticut	1,248	1,295	-3.7%	0	0	1,248	1,280	0	15	0	0
Maine	276	298	-7.4%	0	0	89	102	186	196	0	0
Massachusetts	1,934	2,048	-5.6%	0	0	1,934	2,048	0	0	0	0
New Hampshire	107	122	-12.0%	0	0	107	122	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	5,063	5,336	-5.1%	0	0	4,053	4,212	1,009	1,123	0	0
New Jersey	1,340	1,380	-2.9%	0	0	995	1,034	345	346	0	0
New York	1,863	2,015	-7.6%	0	0	1,440	1,504	422	511	0	0
Pennsylvania	1,860	1,941	-4.1%	0	0	1,619	1,674	242	266	0	0
East North Central	245	259	-5.6%	38	40	0	0	206	220	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	8	10	-19.0%	0	0	0	0	8	10	0	0
Michigan	198	209	-5.5%	0	0	0	0	198	209	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	38	40	-2.8%	38	40	0	0	0	0	0	0
West North Central	630	649	-3.0%	425	412	185	212	20	25	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	630	649	-3.0%	425	412	185	212	20	25	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	5,458	5,443	0.3%	0	0	5,086	5,027	372	416	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	3,701	3,633	1.9%	0	0	3,701	3,633	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	789	809	-2.4%	0	0	789	809	NM	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	968	1,001	-3.3%	0	0	596	585	372	416	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	8	8	-2.1%	0	0	0	0	0	0	8	8
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	8	8	-2.1%	0	0	0	0	0	0	8	8
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	2	2	-17.0%	0	0	2	2	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	2	2	-17.0%	0	0	2	2	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	651	790	-18.0%	0	0	651	790	0	0	0	0
California	428	521	-18.0%	0	0	428	521	0	0	0	0
Oregon	89	117	-24.0%	0	0	89	117	0	0	0	0
Washington	134	152	-12.0%	0	0	134	152	0	0	0	0
Pacific Noncontiguous	446	380	17.0%	0	0	0	0	446	380	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	446	380	17.0%	0	0	0	0	446	380	0	0
U.S. Total	16,067	16,631	-3.4%	464	452	13,356	13,797	2,240	2,375	8	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.
Notes: See Glossary for definitions. Values for 2016 are preliminary. Values for 2015 are final. 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, December 2016 and December 2015 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	5,500	5,889	-6.6%	724	935	4,139	4,427	NM	3	636	524
Connecticut	431	455	-5.3%	0	0	431	455	0	0	0	0
Maine	2,306	2,443	-5.6%	0	0	1,670	1,919	0	1	636	524
Massachusetts	NM	194	NM	0	0	NM	194	0	0	0	0
New Hampshire	2,067	2,155	-4.1%	389	513	1,678	1,642	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	516	642	-20.0%	334	422	NM	218	NM	2	0	0
Middle Atlantic	1,165	992	17.0%	0	0	723	562	0	0	441	430
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	829	688	21.0%	0	0	723	559	0	0	106	129
Pennsylvania	335	304	10.0%	0	0	0	3	0	0	335	301
East North Central	2,794	2,384	17.0%	635	505	1,160	957	0	0	999	921
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,737	1,502	16.0%	0	0	1,102	916	0	0	635	586
Ohio	186	161	15.0%	0	0	58	41	0	0	128	120
Wisconsin	871	720	21.0%	635	505	0	0	0	0	236	214
West North Central	1,055	1,000	5.5%	175	184	580	481	41	15	260	321
Iowa	NM	1	NM	0	0	0	0	NM	1	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	1,028	986	4.3%	175	184	580	481	14	0	260	321
Missouri	27	14	98.0%	0	0	0	0	27	14	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	10,626	10,233	3.8%	2,328	1,646	2,796	2,951	18	18	5,483	5,618
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	1,483	1,499	-1.1%	0	0	679	713	0	0	804	786
Georgia	2,736	2,804	-2.4%	0	0	651	699	0	0	2,084	2,105
Maryland	82	65	26.0%	0	0	0	0	18	18	64	47
North Carolina	1,437	1,578	-9.0%	0	0	810	938	0	0	626	641
South Carolina	2,221	2,169	2.4%	405	264	551	554	0	0	1,264	1,352
Virginia	2,668	2,117	26.0%	1,923	1,382	104	48	0	0	641	687
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,193	3,268	-2.3%	0	0	206	205	0	0	2,987	3,063
Alabama	1,962	2,073	-5.4%	0	0	206	205	0	0	1,756	1,868
Kentucky	137	136	1.1%	0	0	0	0	0	0	137	136
Mississippi	686	629	9.1%	0	0	0	0	0	0	686	629
Tennessee	408	431	-5.2%	0	0	0	0	0	0	408	431
West South Central	3,004	3,469	-13.0%	0	0	0	315	0	0	3,004	3,154
Arkansas	705	648	8.9%	0	0	0	0	0	0	705	648
Louisiana	1,601	1,773	-9.7%	0	0	0	0	0	0	1,601	1,773
Oklahoma	104	109	-4.9%	0	0	0	0	0	0	104	109
Texas	594	939	-37.0%	0	0	0	315	0	0	594	624
Mountain	810	823	-1.7%	0	0	368	387	0	0	441	436
Arizona	317	308	2.7%	0	0	317	308	0	0	0	0
Colorado	0	21	-100.0%	0	0	0	21	0	0	0	0
Idaho	444	446	-0.3%	0	0	52	58	0	0	393	388
Montana	NM	49	NM	0	0	0	0	0	0	NM	49
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	5,773	6,842	-16.0%	487	480	3,611	4,653	0	0	1,675	1,709
California	3,656	4,592	-20.0%	0	0	3,372	4,272	0	0	284	320
Oregon	585	810	-28.0%	0	0	NM	381	0	0	346	429
Washington	1,532	1,440	6.4%	487	480	0	0	0	0	1,044	961
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	33,919	34,900	-2.8%	4,349	3,750	13,583	14,939	61	35	15,926	16,176

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 for 2016 are preliminary. Values for 2015 are final. 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 December 2016 and December 2015 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	60,209	63,213	-4.8%	9,244	9,200	44,836	46,241	24	51	6,105	7,721
Connecticut	4,492	2,792	61.0%	0	0	4,492	2,790	0	2	0	0
Maine	24,448	29,095	-16.0%	0	0	18,338	21,348	NM	26	6,105	7,721
Massachusetts	1,922	2,030	-5.3%	0	0	1,922	2,030	0	0	0	0
New Hampshire	23,040	22,957	0.4%	4,902	5,009	18,138	17,949	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	6,307	6,339	-0.5%	4,342	4,192	1,946	2,124	19	23	0	0
Middle Atlantic	12,750	12,013	6.1%	0	0	7,344	6,580	0	0	5,406	5,433
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	8,467	7,744	9.3%	0	0	7,340	6,544	0	0	1,127	1,199
Pennsylvania	4,283	4,269	0.3%	0	0	NM	35	0	0	4,279	4,233
East North Central	28,815	31,571	-8.7%	5,392	5,304	12,228	14,269	0	7	11,196	11,991
Illinois	0	0	-100.0%	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	18,561	18,124	2.4%	NM	0	11,559	11,154	0	7	7,002	6,963
Ohio	2,199	2,912	-25.0%	0	0	669	666	0	0	1,530	2,247
Wisconsin	8,056	10,534	-24.0%	5,392	5,304	0	2,449	0	0	2,664	2,781
West North Central	11,740	11,988	-2.1%	2,083	2,056	6,352	6,655	441	233	2,864	3,043
Iowa	NM	10	NM	0	0	0	0	NM	10	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	11,395	11,768	-3.2%	2,083	2,056	6,352	6,655	96	13	2,864	3,043
Missouri	342	209	63.0%	0	0	0	0	342	209	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	116,633	125,026	-6.7%	21,142	20,854	31,785	39,611	207	214	63,498	64,347
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	16,152	21,893	-26.0%	0	0	7,409	12,785	0	0	8,742	9,108
Georgia	30,404	30,840	-1.4%	0	0	7,275	7,234	0	0	23,129	23,606
Maryland	883	807	9.4%	0	0	0	0	207	214	676	594
North Carolina	15,088	17,158	-12.0%	0	0	8,221	9,727	0	0	6,867	7,431
South Carolina	26,452	26,197	1.0%	3,813	3,962	6,052	6,453	0	0	16,586	15,781
Virginia	27,654	28,130	-1.7%	17,329	16,892	2,828	3,412	0	0	7,497	7,826
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	37,654	37,645	0.0%	0	1	2,397	2,248	0	0	35,256	35,396
Alabama	22,921	22,891	0.1%	0	0	2,397	2,248	0	0	20,523	20,643
Kentucky	1,710	1,671	2.3%	0	0	0	0	0	0	1,710	1,671
Mississippi	8,209	8,242	-0.4%	0	1	0	0	0	0	8,209	8,242
Tennessee	4,815	4,840	-0.5%	0	0	0	0	0	0	4,815	4,840
West South Central	38,008	39,567	-3.9%	337	1,821	1,625	1,447	0	0	36,047	36,300
Arkansas	7,502	8,032	-6.6%	0	0	0	0	0	0	7,502	8,032
Louisiana	20,168	19,859	1.6%	0	0	0	0	0	0	20,168	19,859
Oklahoma	1,205	1,193	1.0%	0	0	0	0	0	0	1,205	1,193
Texas	9,133	10,484	-13.0%	337	1,821	1,625	1,447	0	0	7,171	7,216
Mountain	9,082	9,078	0.0%	0	0	4,236	4,067	0	0	4,846	5,011
Arizona	3,429	3,275	4.7%	0	0	3,429	3,275	0	0	0	0
Colorado	NM	21	NM	0	0	NM	21	0	0	0	0
Idaho	5,058	5,231	-3.3%	0	0	758	770	0	0	4,300	4,461
Montana	546	551	-0.8%	0	0	0	0	0	0	546	551
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	66,727	76,550	-13.0%	4,910	4,683	42,467	50,270	0	0	19,350	21,598
California	43,176	51,190	-16.0%	0	0	39,887	47,419	0	0	3,289	3,771
Oregon	6,419	8,944	-28.0%	0	0	2,580	2,851	0	0	3,839	6,093
Washington	17,132	16,416	4.4%	4,910	4,683	0	0	0	0	12,222	11,733
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	381,618	406,650	-6.2%	43,107	43,919	153,271	171,387	672	504	184,569	190,840

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 for 2016 are preliminary. Values for 2015 are final. 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 - December 2016

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem 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	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
2016	163,943	30,807	872	131,811	20,399	630	32,133	10,409	241
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	154,390	32,896	892	118,239	22,177	742	36,151	10,718	150
February	149,071	28,446	850	115,271	20,328	723	33,800	8,118	127
March	154,347	29,536	818	120,635	21,165	698	33,712	8,371	120
April	167,063	29,614	912	130,078	21,218	776	36,985	8,396	136
May	172,809	30,184	999	134,499	21,504	856	38,310	8,680	143
June	166,437	30,441	1,031	130,716	21,634	883	35,720	8,807	149
July	157,938	30,119	1,064	124,301	21,365	909	33,638	8,754	156
August	155,952	30,143	1,029	123,296	21,138	891	32,656	9,005	138
Sept	162,109	31,390	1,102	128,351	21,450	973	33,757	9,941	129
October	175,588	32,462	1,151	138,712	21,540	1,026	36,876	10,922	125
November	188,595	33,487	1,290	149,168	21,946	1,159	39,427	11,542	131
December	195,548	32,884	1,340	153,226	21,443	1,163	42,322	11,441	177
Year 2016, End of Month Stocks									
January	187,486	32,397	1,320	146,459	20,980	1,089	41,026	11,416	231
February	187,575	31,637	1,323	146,224	20,670	1,064	41,351	10,967	259
March	192,270	31,485	1,240	149,113	20,603	974	43,156	10,883	266
April	194,063	31,602	1,181	151,402	20,816	901	42,661	10,786	280
May	193,430	31,831	1,071	151,237	21,020	826	42,193	10,810	246
June	183,246	31,594	905	144,986	20,874	689	38,260	10,720	216
July	169,462	31,096	858	135,109	20,559	678	34,353	10,538	180
August	160,449	34,730	780	129,110	20,309	589	31,340	14,421	190
Sept	158,236	34,675	768	128,418	20,285	566	29,818	14,389	201
October	162,737	34,631	812	132,437	20,176	606	30,300	14,455	207
November	172,205	30,910	833	139,079	20,429	606	33,127	10,480	227
December	163,943	30,807	872	131,811	20,399	630	32,133	10,409	241

Notes: See Glossary for definitions. Values for 2015 and prior years are final. Values for 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, December 2016 and 2015

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	December 2016	December 2015	Percentage Change	December 2016	December 2015	Percentage Change	December 2016	December 2015	Percentage Change
New England	1,640	1,758	-6.7%	4,459	4,918	-9.3%	0	0	--
Connecticut	W	W	W	1,570	1,669	-6.0%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,870	1,957	-4.4%	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	--	38	NM	NM	0	0	--
Middle Atlantic	4,818	7,914	-39.1%	5,431	6,054	-10.3%	0	0	--
New Jersey	783	932	-15.9%	676	761	-11.2%	0	0	--
New York	W	513	W	3,481	3,861	-9.8%	0	0	--
Pennsylvania	W	6,469	W	1,274	1,432	-11.0%	0	0	--
East North Central	36,994	43,926	-15.8%	1,075	1,158	-7.2%	274	192	42.4%
Illinois	7,489	11,111	-32.6%	71	87	-18.9%	0	0	--
Indiana	9,685	11,491	-15.7%	102	114	-10.3%	W	0	W
Michigan	6,111	7,743	-21.1%	316	339	-6.7%	W	W	W
Ohio	8,886	8,582	3.5%	370	361	2.3%	W	W	W
Wisconsin	4,824	4,999	-3.5%	216	257	-15.7%	W	W	W
West North Central	31,166	31,675	-1.6%	943	1,069	-11.8%	0	0	--
Iowa	8,447	6,892	22.6%	126	148	-15.2%	0	0	--
Kansas	4,595	4,985	-7.8%	120	143	-16.1%	0	0	--
Minnesota	4,048	4,933	-17.9%	129	149	-13.3%	0	0	--
Missouri	9,547	9,764	-2.2%	391	415	-5.7%	0	0	--
Nebraska	W	3,068	W	95	118	-19.5%	0	0	--
North Dakota	1,241	W	W	32	37	-13.8%	0	0	--
South Dakota	W	W	W	49	58	-15.2%	0	0	--
South Atlantic	26,772	35,260	-24.1%	12,011	12,323	-2.5%	W	W	W
Delaware	W	W	W	417	486	-14.2%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	4,427	6,344	-30.2%	4,939	5,476	-9.8%	W	148	W
Georgia	4,906	6,683	-26.6%	908	841	8.0%	0	0	--
Maryland	1,441	2,051	-29.7%	853	983	-13.3%	0	0	--
North Carolina	5,101	7,621	-33.1%	1,237	1,264	-2.1%	0	0	--
South Carolina	5,080	5,891	-13.8%	715	721	-0.9%	0	0	--
Virginia	W	1,401	W	2,785	2,422	15.0%	0	0	--
West Virginia	4,538	W	W	158	130	21.4%	W	W	W
East South Central	16,040	18,959	-15.4%	1,985	1,835	8.2%	W	W	W
Alabama	3,514	4,324	-18.7%	339	259	30.7%	0	0	--
Kentucky	7,941	8,934	-11.1%	237	251	-5.5%	W	W	W
Mississippi	1,371	1,706	-19.6%	570	577	-1.1%	0	0	--
Tennessee	3,214	3,995	-19.6%	839	748	12.1%	0	0	--
West South Central	24,799	34,018	-27.1%	1,808	1,911	-5.4%	W	W	W
Arkansas	3,877	5,056	-23.3%	W	W	W	0	0	--
Louisiana	2,488	3,831	-35.1%	420	412	2.0%	W	W	W
Oklahoma	4,624	5,923	-21.9%	W	W	W	0	0	--
Texas	13,811	19,208	-28.1%	1,090	1,198	-9.0%	0	0	--
Mountain	20,228	20,737	-2.5%	392	411	-4.6%	W	W	W
Arizona	3,544	4,728	-25.1%	145	138	4.8%	0	0	--
Colorado	4,363	5,605	-22.2%	117	125	-6.6%	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	17	19	-10.8%	W	W	W
Nevada	W	1,114	W	W	W	W	0	0	--
New Mexico	W	W	W	38	43	-12.0%	0	0	--
Utah	5,279	3,941	33.9%	30	40	-24.8%	0	0	--
Wyoming	4,263	3,329	28.1%	29	31	-5.4%	0	0	--
Pacific Contiguous	W	W	W	456	517	-11.8%	0	0	--
California	0	0	--	W	W	W	0	0	--
Oregon	W	W	W	W	W	W	0	0	--
Washington	W	W	W	214	267	-20.0%	0	0	--
Pacific Noncontiguous	W	W	W	2,247	2,689	-16.4%	0	0	--
Alaska	W	W	W	84	362	-76.8%	0	0	--
Hawaii	W	W	W	2,163	2,327	-7.0%	0	0	--
U.S. Total	163,943	195,548	-16.2%	30,807	32,884	-6.3%	872	1,340	-34.9%

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 for 2016 are preliminary. Values for 2015 are final. 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, December 2016 and 2015

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015
Coal (Thousand Tons)							
New England	1,640	1,758	-6.7%	W	W	W	W
Middle Atlantic	4,818	7,914	-39.1%	0	0	4,818	7,914
East North Central	36,994	43,926	-15.8%	23,214	27,729	13,780	16,198
West North Central	31,166	31,675	-1.6%	31,166	W	0	W
South Atlantic	26,772	35,260	-24.1%	24,521	32,248	2,251	3,012
East South Central	16,040	18,959	-15.4%	16,040	18,959	0	0
West South Central	24,799	34,018	-27.1%	16,279	21,483	8,520	12,535
Mountain	20,228	20,737	-2.5%	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	**163,943**	**195,548**	**-16.2%**	**131,811**	**153,226**	**32,133**	**42,322**
Petroleum Liquids (Thousand Barrels)							
New England	4,459	4,918	-9.3%	666	689	3,793	4,229
Middle Atlantic	5,431	6,054	-10.3%	2,097	2,381	3,335	3,673
East North Central	1,075	1,158	-7.2%	761	862	314	296
West North Central	943	1,069	-11.8%	W	1,042	W	27
South Atlantic	12,011	12,323	-2.5%	9,728	9,839	2,283	2,484
East South Central	1,985	1,835	8.2%	W	W	W	W
West South Central	1,808	1,911	-5.4%	1,391	1,411	417	500
Mountain	392	411	-4.6%	359	W	33	W
Pacific Contiguous	456	517	-11.8%	W	414	W	103
Pacific Noncontiguous	2,247	2,689	-16.4%	W	W	W	W
U.S. Total	**30,807**	**32,884**	**-6.3%**	**20,399**	**21,443**	**10,409**	**11,441**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	274	192	42.4%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	W	148	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	**872**	**1,340**	**-34.9%**	**W**	**W**	**W**	**W**

W = Withheld to avoid disclosure of individual company data.
Notes: See Glossary for definitions. Values for 2016 are preliminary. Values for 2015 are final. 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 - December 2016

	Electric Power Sector			
Period	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	82,004	108,614	4,931	195,548
2016	68,536	91,036	4,372	163,943
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	70,423	78,424	5,542	154,390
February	64,396	79,411	5,264	149,071
March	65,421	84,013	4,912	154,347
April	70,985	90,919	5,159	167,063
May	74,195	93,538	5,077	172,809
June	72,921	88,835	4,681	166,437
July	68,197	84,988	4,753	157,938
August	67,777	83,691	4,484	155,952
Sept	70,365	87,185	4,559	162,109
October	76,243	94,720	4,626	175,588
November	80,254	103,602	4,738	188,595
December	82,004	108,614	4,931	195,548
Year 2016, End of Month Stocks				
January	77,097	105,748	4,640	187,486
February	76,703	106,336	4,536	187,575
March	80,107	107,365	4,798	192,270
April	81,926	107,068	5,069	194,063
May	82,821	105,443	5,166	193,430
June	78,957	99,243	5,046	183,246
July	72,160	92,579	4,723	169,462
August	68,467	87,595	4,386	160,449
Sept	67,064	87,008	4,163	158,236
October	68,437	90,326	3,974	162,737
November	71,822	96,100	4,283	172,205
December	68,536	91,036	4,372	163,943

Notes: See Glossary for definitions.
Values for 2015 and prior years are final. Values for 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 - December 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	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	15,086,208	782,929	2.22	42.86	1.29	103.5	147,647	24,320	11.49	69.79	0.48	75.8
2016	12,335,055	638,688	2.12	40.87	1.35	92.3	100,602	16,610	9.36	56.72	0.48	69.9
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	1,417,725	73,633	2.29	44.01	1.28	100.8	13,274	2,193	12.76	77.28	0.57	60.6
February	1,175,859	61,197	2.26	43.43	1.29	89.2	20,116	3,305	12.61	76.83	0.51	36.0
March	1,237,697	63,691	2.26	43.97	1.28	106.4	14,354	2,373	12.54	76.00	0.54	116.0
April	1,183,833	61,120	2.23	43.29	1.32	122.6	9,153	1,520	13.18	79.55	0.43	86.3
May	1,228,784	63,030	2.26	44.13	1.35	107.8	11,636	1,923	12.71	77.02	0.45	99.6
June	1,201,874	62,061	2.25	43.65	1.36	88.3	9,858	1,630	13.57	82.13	0.49	83.0
July	1,302,808	68,352	2.21	42.10	1.25	87.6	8,538	1,410	12.57	76.20	0.44	63.4
August	1,395,614	72,257	2.23	43.11	1.30	96.1	9,362	1,552	12.08	72.92	0.47	77.4
Sept	1,361,468	70,737	2.22	42.67	1.30	107.0	14,105	2,316	9.67	58.83	0.43	124.8
October	1,285,699	67,027	2.15	41.16	1.26	122.1	13,066	2,137	9.10	55.68	0.44	121.0
November	1,170,593	61,257	2.15	41.17	1.25	121.9	14,148	2,306	8.96	55.05	0.54	119.9
December	1,124,253	58,569	2.16	41.43	1.28	113.5	10,037	1,657	8.83	53.52	0.42	92.5
Year 2016												
January	1,019,963	53,356	2.12	40.60	1.33	84.0	8,974	1,499	7.92	47.44	0.46	58.3
February	965,792	49,873	2.11	40.90	1.40	96.0	7,927	1,307	6.98	42.32	0.46	56.0
March	884,181	44,893	2.18	42.88	1.46	108.9	6,862	1,132	6.90	41.82	0.44	73.1
April	795,624	40,269	2.16	42.67	1.46	100.6	8,529	1,404	8.35	50.75	0.41	93.7
May	859,334	43,883	2.16	42.39	1.45	95.0	9,129	1,520	9.79	58.87	0.44	85.7
June	1,008,277	52,327	2.10	40.47	1.35	81.1	7,517	1,247	10.38	62.59	0.49	70.3
July	1,138,678	59,400	2.11	40.53	1.28	78.8	8,993	1,460	11.82	72.81	0.51	59.8
August	1,235,488	63,867	2.11	40.85	1.32	85.1	9,033	1,479	9.44	57.64	0.51	60.9
Sept	1,140,035	59,344	2.12	40.79	1.30	93.5	8,092	1,332	9.40	57.12	0.50	77.5
October	1,125,959	58,765	2.08	39.77	1.28	105.6	8,262	1,370	9.98	60.24	0.53	76.2
November	1,082,191	56,397	2.09	40.03	1.29	114.7	9,437	1,552	10.07	61.25	0.49	89.0
December	1,079,534	56,315	2.08	39.85	1.32	85.2	7,849	1,308	W	W	0.46	61.6
Year to Date												
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	15,086,208	782,929	2.22	42.86	1.29	103.5	147,647	24,320	11.49	69.79	0.48	75.8
2016	12,335,055	638,688	2.12	40.87	1.35	92.3	100,602	16,610	9.36	56.72	0.48	69.9

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 2015 and prior years are final. Values for 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 - December 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	138,668	4,897	1.84	52.11	5.25	94.4	10,173,502	9,842,581	3.23	3.34	89.9	2.65
2016	116,935	4,166	1.65	46.23	5.40	78.7	10,606,036	10,258,745	2.88	2.97	90.3	2.47
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	14,001	495	2.00	56.58	5.22	96.9	751,373	727,845	4.11	4.24	88.3	2.92
February	9,854	345	1.76	50.27	5.29	67.4	687,566	665,945	4.70	4.85	88.9	3.19
March	9,700	346	2.00	56.19	5.16	91.9	755,061	731,417	3.55	3.66	89.5	2.78
April	11,283	401	1.96	55.27	5.00	98.8	717,016	693,722	3.10	3.21	90.7	2.58
May	12,122	428	2.02	57.16	5.23	98.3	787,887	762,232	3.14	3.25	90.9	2.64
June	9,569	337	1.87	53.03	5.55	84.8	934,171	902,955	3.12	3.23	90.5	2.66
July	13,055	461	1.90	53.83	5.07	94.1	1,093,897	1,057,630	3.11	3.22	90.7	2.63
August	11,554	405	1.82	52.03	5.01	85.3	1,073,001	1,038,464	3.11	3.22	90.4	2.62
Sept	13,295	468	1.74	49.40	5.12	98.6	938,261	907,211	3.06	3.17	90.0	2.57
October	11,080	390	1.83	52.05	5.08	101.6	833,330	804,958	2.92	3.02	89.1	2.47
November	12,117	429	1.59	44.93	5.59	117.3	783,337	758,502	2.65	2.74	89.8	2.38
December	11,037	393	1.57	44.13	5.73	108.4	818,600	791,698	2.59	2.68	89.1	2.36
Year 2016												
January	9,639	341	1.38	38.93	5.68	81.2	821,744	793,971	3.01	3.12	89.4	2.52
February	11,272	408	1.30	35.80	5.53	98.1	734,227	709,538	2.70	2.79	89.2	2.37
March	10,312	363	1.41	40.14	5.33	76.5	796,031	770,399	2.23	2.31	90.1	2.22
April	10,307	369	1.35	37.75	5.56	80.0	773,887	749,085	2.42	2.50	90.2	2.31
May	8,554	307	1.32	36.76	5.35	69.0	856,800	830,090	2.40	2.47	90.5	2.31
June	6,894	240	1.41	40.48	4.67	52.1	1,019,040	987,371	2.67	2.76	91.0	2.40
July	10,031	355	1.47	41.45	5.14	72.8	1,186,484	1,148,584	2.97	3.07	91.1	2.56
August	11,032	398	1.75	48.48	5.42	78.7	1,204,258	1,162,373	2.96	3.06	91.2	2.53
Sept	10,740	381	2.04	57.51	5.17	85.0	967,740	934,760	3.08	3.19	90.9	2.56
October	8,843	317	1.98	55.43	5.69	88.3	793,786	768,090	3.13	3.24	90.1	2.51
November	9,364	333	2.26	63.60	5.69	87.4	721,768	698,431	3.02	3.12	89.8	2.47
December	9,944	355	2.07	57.94	5.43	82.0	730,273	706,054	3.96	4.10	89.4	W
Year to Date												
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	138,668	4,897	1.84	52.11	5.25	94.4	10,173,502	9,842,581	3.23	3.34	89.9	2.65
2016	116,935	4,166	1.65	46.23	5.40	78.7	10,606,036	10,258,745	2.88	2.97	90.3	2.47

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 2015 and prior years are final. Values for 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 - December 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	11,088,631	571,707	2.25	43.71	1.17	105.8	90,041	14,747	11.32	69.13	0.46	79.2
2016	9,203,169	473,034	2.16	42.09	1.22	94.8	73,050	11,943	9.16	56.02	0.45	76.1
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	1,022,724	52,840	2.31	44.72	1.17	103.9	8,679	1,427	11.79	71.76	0.57	69.0
February	853,788	44,181	2.26	43.70	1.17	92.2	8,590	1,404	11.71	71.63	0.47	39.1
March	915,194	47,024	2.26	44.08	1.17	111.2	10,166	1,669	12.11	73.85	0.52	134.1
April	872,141	44,828	2.26	43.98	1.20	124.1	6,581	1,083	13.26	80.57	0.39	87.9
May	918,188	46,827	2.29	44.97	1.21	109.2	7,705	1,259	12.50	76.54	0.46	100.6
June	897,838	45,934	2.28	44.49	1.23	90.6	7,498	1,234	13.66	82.97	0.46	89.4
July	959,033	49,930	2.24	42.94	1.11	88.7	6,138	1,004	12.47	76.21	0.40	67.8
August	1,026,500	52,727	2.26	44.04	1.17	97.5	5,716	944	11.75	71.16	0.42	67.5
Sept	993,558	51,091	2.26	44.03	1.16	109.2	7,097	1,157	9.75	59.76	0.38	94.1
October	941,342	48,715	2.19	42.30	1.13	124.6	5,909	970	9.43	57.50	0.44	79.8
November	862,786	44,830	2.20	42.41	1.14	126.2	8,558	1,386	8.80	54.38	0.57	102.8
December	825,539	42,781	2.21	42.64	1.16	112.7	7,402	1,209	8.52	52.14	0.37	102.7
Year 2016												
January	746,616	38,805	2.17	41.79	1.18	85.0	6,186	1,021	7.88	47.73	0.44	60.6
February	717,946	36,885	2.16	42.04	1.23	97.7	5,810	954	6.92	42.15	0.41	67.6
March	681,849	34,396	2.20	43.57	1.34	110.5	5,220	851	6.69	41.06	0.40	81.4
April	608,985	30,734	2.19	43.47	1.31	107.0	6,895	1,125	8.35	51.19	0.37	110.7
May	651,230	33,180	2.17	42.66	1.26	97.8	6,738	1,114	9.12	55.15	0.40	94.9
June	771,022	39,635	2.15	41.85	1.24	85.3	5,508	908	10.51	63.79	0.44	72.9
July	843,774	43,673	2.18	42.06	1.15	80.5	7,114	1,142	11.54	71.92	0.52	68.1
August	919,918	47,289	2.17	42.27	1.19	87.5	6,733	1,089	9.15	56.56	0.51	66.8
Sept	846,033	43,523	2.18	42.41	1.18	96.8	5,507	895	9.03	55.59	0.49	80.4
October	837,987	43,418	2.13	41.05	1.17	109.7	5,174	845	9.75	59.67	0.52	74.1
November	801,020	41,349	2.13	41.33	1.21	116.9	6,602	1,075	9.79	60.10	0.48	89.7
December	776,790	40,148	2.13	41.24	1.21	84.8	5,562	924	10.73	64.58	0.44	68.4
Year to Date												
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	11,088,631	571,707	2.25	43.71	1.17	105.8	90,041	14,747	11.32	69.13	0.46	79.2
2016	9,203,169	473,034	2.16	42.09	1.22	94.8	73,050	11,943	9.16	56.02	0.45	76.1

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.

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- 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 - December 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	115,929	4,069	1.77	50.44	5.23	130.1	4,717,748	4,565,040	3.52	3.64	96.0	2.67
2016	99,706	3,538	1.52	42.77	5.38	103.1	5,060,046	4,892,960	3.15	3.26	96.8	2.54
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	345,262	334,921	4.24	4.37	96.3	2.84
February	8,617	301	1.72	49.17	5.31	90.5	325,811	315,866	4.57	4.72	95.1	2.95
March	7,949	283	1.95	54.67	5.16	144.7	343,696	333,075	3.78	3.90	95.6	2.74
April	8,845	313	1.95	55.11	4.92	146.8	331,639	321,268	3.48	3.60	97.3	2.65
May	10,125	357	1.98	56.26	5.21	136.5	364,935	353,283	3.50	3.61	97.6	2.69
June	7,485	262	1.73	49.60	5.62	111.4	444,769	429,988	3.47	3.59	96.1	2.72
July	11,256	395	1.86	52.91	5.04	118.3	509,115	491,495	3.46	3.59	96.2	2.69
August	9,787	342	1.76	50.54	4.92	109.8	492,323	476,327	3.46	3.57	95.7	2.67
Sept	12,216	429	1.72	49.08	5.09	145.7	428,044	413,887	3.40	3.52	95.5	2.63
October	9,567	334	1.77	50.64	5.05	147.2	380,675	367,001	3.25	3.37	96.2	2.52
November	10,082	354	1.46	41.65	5.64	196.4	365,361	354,358	2.97	3.07	96.5	2.47
December	8,492	297	1.35	38.62	5.76	128.1	386,119	373,572	2.93	3.03	94.8	2.47
Year 2016												
January	7,935	278	1.15	32.96	5.67	91.8	394,006	381,192	3.27	3.38	97.3	2.57
February	9,837	356	1.13	31.18	5.53	131.0	355,300	343,232	2.96	3.07	97.0	2.44
March	8,402	294	1.21	34.47	5.28	103.8	382,382	370,058	2.53	2.61	97.3	2.33
April	8,436	300	1.14	31.95	5.58	92.1	367,819	356,210	2.72	2.80	97.5	2.42
May	7,842	281	1.22	34.16	5.35	94.9	411,449	398,370	2.68	2.77	97.0	2.40
June	6,325	220	1.33	38.34	4.59	71.4	500,006	484,203	2.88	2.97	96.4	2.47
July	9,587	340	1.43	40.50	5.10	104.6	569,055	550,931	3.20	3.31	95.4	2.63
August	9,306	335	1.62	45.01	5.45	99.4	569,260	549,200	3.23	3.34	95.7	2.60
Sept	9,059	320	1.96	55.58	5.12	102.8	456,568	440,900	3.43	3.55	96.8	2.64
October	7,088	253	1.87	52.47	5.71	146.9	368,564	356,539	3.54	3.65	96.6	2.58
November	7,871	279	2.22	62.85	5.74	116.3	338,187	326,505	3.37	3.49	98.0	2.54
December	8,017	284	1.99	56.17	5.39	108.8	347,451	335,619	4.15	4.30	97.8	2.79
Year to Date												
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	115,929	4,069	1.77	50.44	5.23	130.1	4,717,748	4,565,040	3.52	3.64	96.0	2.67
2016	99,706	3,538	1.52	42.77	5.38	103.1	5,060,046	4,892,960	3.15	3.26	96.8	2.54

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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 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 - December 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	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	3,731,508	198,982	2.10	39.39	1.66	100.5	55,248	9,189	11.69	70.36	0.46	86.5
2016	2,979,092	158,742	1.94	36.34	1.75	89.2	25,734	4,369	9.92	58.50	0.48	74.6
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	370,545	19,679	2.19	41.18	1.57	96.2	4,385	732	15.01	89.69	0.49	59.4
February	302,474	16,111	2.22	41.77	1.63	84.3	11,250	1,857	13.25	80.43	0.51	37.0
March	298,086	15,549	2.21	42.43	1.63	97.3	3,976	670	13.58	80.81	0.49	119.6
April	290,324	15,310	2.11	40.15	1.67	124.1	2,315	394	12.90	76.13	0.46	130.6
May	289,053	15,209	2.13	40.54	1.77	107.3	3,836	648	13.09	77.69	0.41	141.4
June	282,635	15,143	2.14	40.04	1.77	83.3	2,120	356	13.32	79.32	0.48	95.0
July	319,704	17,307	2.09	38.62	1.66	85.8	2,277	386	12.82	75.72	0.47	69.7
August	345,979	18,463	2.11	39.54	1.69	94.3	3,485	581	12.58	75.51	0.48	134.5
Sept	345,305	18,605	2.05	38.03	1.69	103.9	6,857	1,134	9.47	57.12	0.47	242.0
October	323,263	17,340	1.99	37.04	1.62	120.0	6,936	1,131	8.70	53.42	0.41	304.8
November	286,023	15,432	1.97	36.47	1.57	115.6	5,410	891	9.13	55.56	0.45	217.6
December	278,119	14,836	1.96	36.85	1.64	121.7	2,401	409	9.61	56.22	0.45	92.1
Year 2016												
January	258,912	13,908	1.95	36.22	1.73	85.3	2,646	456	7.85	45.72	0.42	67.7
February	235,185	12,416	1.93	36.54	1.93	97.4	1,842	308	6.92	41.44	0.47	43.3
March	187,520	9,832	2.05	39.03	1.91	113.8	1,471	254	7.48	43.40	0.47	68.1
April	174,164	8,980	1.99	38.68	1.99	87.8	1,456	249	W	W	0.50	73.2
May	195,458	10,130	2.10	40.44	2.08	91.5	2,306	392	11.84	69.78	0.48	95.5
June	223,442	12,073	1.88	34.83	1.74	71.9	1,819	308	10.07	59.42	0.47	85.8
July	281,765	15,130	1.90	35.31	1.68	76.2	1,819	309	12.97	76.45	0.45	56.4
August	301,966	15,952	1.90	35.92	1.73	80.8	2,242	380	10.26	60.55	0.48	64.2
Sept	283,296	15,336	1.92	35.53	1.66	88.0	2,465	418	10.16	59.95	0.49	91.2
October	275,084	14,756	1.89	35.17	1.63	98.3	2,860	487	10.39	61.10	0.49	110.6
November	270,983	14,587	1.92	35.71	1.54	114.5	2,625	441	10.76	64.02	0.47	115.1
December	291,318	15,642	1.92	35.67	1.61	89.4	2,183	367	W	W	0.50	64.9
Year to Date												
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	3,731,508	198,982	2.10	39.39	1.66	100.5	55,248	9,189	11.69	70.36	0.46	86.5
2016	2,979,092	158,742	1.94	36.34	1.75	89.2	25,734	4,369	9.92	58.50	0.48	74.6

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Notes:
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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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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2006 - December 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	67.3	4,683,291	4,530,195	2.94	3.04	93.2	W
2016	13,566	492	2.50	68.91	5.44	69.9	4,785,209	4,628,280	2.55	2.63	93.9	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	77.7	341,822	330,761	4.08	4.22	91.0	W
February	562	20	W	W	4.53	30.3	301,145	291,394	5.27	5.45	92.2	W
March	956	34	W	W	4.81	48.8	347,024	336,090	3.37	3.49	93.3	W
April	1,501	54	W	W	4.95	79.8	324,962	313,969	2.65	2.75	94.0	W
May	1,348	48	W	W	5.17	69.5	359,864	347,963	2.75	2.85	93.5	W
June	1,237	44	W	W	5.22	69.1	425,118	410,985	2.68	2.78	93.7	W
July	1,119	40	W	W	5.30	58.9	516,995	500,696	2.71	2.79	93.6	W
August	1,289	45	W	W	5.62	67.7	511,789	495,450	2.71	2.80	93.7	W
Sept	432	16	W	W	5.44	22.4	445,913	431,110	2.69	2.79	93.4	W
October	1,295	47	W	W	5.38	71.8	394,437	381,566	2.55	2.64	93.1	W
November	1,643	59	W	W	5.35	82.8	351,912	340,122	2.31	2.40	93.1	W
December	1,742	65	W	W	5.70	179.6	362,309	350,090	2.21	2.29	93.5	W
Year 2016												
January	1,304	49	W	W	5.70	184.5	362,702	349,843	2.78	2.88	92.2	W
February	1,313	47	W	W	5.44	97.1	321,535	310,739	2.43	2.51	93.4	W
March	1,337	48	W	W	5.37	65.2	352,243	340,715	1.90	1.96	94.1	W
April	1,203	44	W	W	5.30	88.4	344,777	333,405	2.07	2.14	93.7	W
May	505	18	W	W	5.28	30.6	384,336	372,428	2.04	2.11	94.3	W
June	348	12	W	W	5.32	20.5	456,773	442,681	2.42	2.50	94.3	W
July	223	8	W	W	5.67	12.1	551,548	533,794	2.67	2.76	94.6	W
August	1,509	55	W	W	5.24	77.2	568,632	549,115	2.63	2.72	94.6	W
Sept	1,482	53	W	W	5.43	90.6	448,557	433,304	2.63	2.72	94.3	W
October	1,548	56	W	W	5.59	78.5	361,739	349,983	2.62	2.71	94.0	W
November	1,294	46	W	W	5.43	83.4	317,947	308,170	2.60	2.68	93.3	W
December	1,500	55	W	W	5.50	84.2	314,419	304,102	3.83	3.96	93.5	W
Year to Date												
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	67.3	4,683,291	4,530,195	2.94	3.04	93.2	W
2016	13,566	492	2.50	68.91	5.44	69.9	4,785,209	4,628,280	2.55	2.63	93.9	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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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2006 - December 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	13.6	0	0	--	--	--	0.0
2016	1,288	57	W	W	3.03	8.2	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	14.4	0	0	--	--	--	0.0
February	479	23	2.14	44.32	1.71	23.9	0	0	--	--	--	0.0
March	177	8	W	W	2.93	9.3	0	0	--	--	--	0.0
April	298	13	W	W	2.72	23.8	0	0	--	--	--	0.0
May	102	5	W	W	2.90	9.0	0	0	--	--	--	0.0
June	213	9	W	W	2.30	15.1	0	0	--	--	--	0.0
July	124	5	W	W	2.93	8.3	0	0	--	--	--	0.0
August	187	8	W	W	2.46	13.3	0	0	--	--	--	0.0
Sept	49	2	W	W	3.01	4.3	0	0	--	--	--	0.0
October	130	6	W	W	3.08	11.1	0	0	--	--	--	0.0
November	182	8	W	W	3.00	13.6	0	0	--	--	--	0.0
December	188	8	W	W	2.86	11.5	0	0	--	--	--	0.0
Year 2016												
January	139	6	W	W	2.87	8.1	0	0	--	--	--	0.0
February	124	5	W	W	2.84	7.0	0	0	--	--	--	0.0
March	163	7	W	W	3.03	9.6	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
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	92	4	W	W	3.09	8.0	0	0	--	--	--	0.0
Sept	153	7	W	W	3.14	13.7	0	0	--	--	--	0.0
October	159	7	W	W	3.15	14.1	0	0	--	--	--	0.0
November	237	10	W	W	3.04	17.1	0	0	--	--	--	0.0
December	214	9	W	W	3.05	13.2	0	0	--	--	--	0.0
Year to Date												
2014	4,096	182	W	W	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	W	W	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	W	W	3.03	8.2	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 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 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2006 - December 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	5.5	W
2016	0	0	--	--	--	0.0	8,005	7,766	W	W	6.7	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	5.7	W
February	0	0	--	--	--	0.0	378	372	W	W	4.4	W
March	0	0	--	--	--	0.0	438	432	W	W	4.7	W
April	0	0	--	--	--	0.0	420	413	W	W	5.1	W
May	0	0	--	--	--	0.0	494	488	W	W	5.4	W
June	0	0	--	--	--	0.0	522	513	W	W	5.2	W
July	0	0	--	--	--	0.0	540	528	W	W	4.6	W
August	0	0	--	--	--	0.0	694	680	W	W	6.1	W
Sept	0	0	--	--	--	0.0	632	620	W	W	5.8	W
October	0	0	--	--	--	0.0	530	523	W	W	5.4	W
November	0	0	--	--	--	0.0	775	749	W	W	8.0	W
December	0	0	--	--	--	0.0	524	507	W	W	5.2	W
Year 2016												
January	0	0	--	--	--	0.0	1,241	1,203	W	W	11.6	W
February	0	0	--	--	--	0.0	488	477	W	W	5.2	W
March	0	0	--	--	--	0.0	620	610	W	W	6.4	W
April	0	0	--	--	--	0.0	578	567	W	W	6.1	W
May	0	0	--	--	--	0.0	599	587	W	W	6.4	W
June	0	0	--	--	--	0.0	599	585	W	W	6.0	W
July	0	0	--	--	--	0.0	691	667	W	W	6.2	W
August	0	0	--	--	--	0.0	802	765	W	W	7.0	W
Sept	0	0	--	--	--	0.0	610	591	W	W	6.1	W
October	0	0	--	--	--	0.0	598	575	W	W	6.6	W
November	0	0	--	--	--	0.0	613	589	W	W	6.5	W
December	0	0	--	--	--	0.0	568	549	W	W	5.6	W
Year to Date												
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	5.5	W
2016	0	0	--	--	--	0.0	8,005	7,766	W	W	6.7	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.

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- 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 - December 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	263,630	12,132	W	W	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	151,507	6,856	W	W	1.45	47.9	1,817	299	9.79	59.50	1.21	15.3
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	24,148	1,100	W	W	1.36	68.2	210	34	13.50	83.50	1.82	14.2
February	19,118	882	2.77	60.15	1.42	59.5	275	44	15.47	96.51	1.58	12.2
March	24,240	1,110	W	W	1.30	73.7	212	34	14.93	93.02	1.65	17.1
April	21,069	969	W	W	1.42	72.5	257	43	13.30	79.04	0.98	22.1
May	21,441	991	W	W	1.28	71.9	95	16	15.20	90.88	1.05	8.5
June	21,188	975	W	W	1.36	70.6	240	39	13.12	79.91	1.30	22.0
July	23,947	1,110	W	W	1.34	73.7	122	20	13.55	83.51	1.58	12.5
August	22,948	1,059	W	W	1.28	74.6	161	26	13.21	81.06	1.52	18.7
Sept	22,556	1,038	W	W	1.22	74.6	151	25	13.56	82.72	1.38	16.9
October	20,964	967	W	W	1.40	74.6	221	36	12.74	77.23	1.26	21.5
November	21,602	987	W	W	1.51	74.5	180	29	11.49	71.78	1.40	19.1
December	20,408	944	W	W	1.36	69.9	234	38	11.75	72.24	1.52	24.5
Year 2016												
January	14,296	638	W	W	1.51	42.4	142	23	10.87	67.07	1.55	12.2
February	12,538	566	W	W	1.62	40.6	274	45	8.45	51.85	1.10	25.0
March	14,648	658	W	W	1.42	48.0	170	28	8.30	51.02	1.13	23.4
April	12,466	554	W	W	1.59	55.1	177	29	W	W	1.35	24.2
May	12,645	573	2.76	60.98	1.52	49.9	84	14	11.02	66.30	1.65	8.3
June	13,814	619	2.78	62.01	1.38	51.1	190	31	9.59	58.65	1.48	20.3
July	13,139	597	2.77	61.02	1.36	48.4	60	10	10.18	62.12	1.02	5.0
August	13,513	622	W	W	1.29	50.4	58	10	10.89	65.04	0.55	5.4
Sept	10,554	477	W	W	1.37	45.3	120	20	11.04	66.33	1.01	15.4
October	12,729	585	W	W	1.43	58.9	228	37	10.22	62.63	1.14	19.0
November	9,951	451	W	W	1.46	45.2	210	35	10.40	61.84	1.26	24.6
December	11,213	516	W	W	1.49	44.6	103	17	10.53	63.57	0.88	9.4
Year to Date												
2014	281,867	13,050	W	W	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	W	W	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	151,507	6,856	W	W	1.45	47.9	1,817	299	9.79	59.50	1.21	15.3

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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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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2006 - December 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	8,189	304	W	W	5.50	24.1	765,964	740,975	W	W	60.6	W
2016	3,664	135	W	W	5.84	11.8	752,775	729,741	W	W	58.1	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	1,065	39	W	W	5.45	30.6	63,737	61,619	W	W	59.6	W
February	675	25	W	W	5.72	22.1	60,233	58,313	W	W	63.2	W
March	794	29	W	W	5.66	26.6	63,904	61,821	W	W	62.5	W
April	937	34	W	W	5.81	27.3	59,995	58,072	W	W	62.5	W
May	650	24	W	W	5.58	22.7	62,594	60,498	W	W	63.6	W
June	847	32	W	W	5.41	31.7	63,763	61,470	W	W	60.8	W
July	680	26	W	W	5.28	29.4	67,248	64,911	W	W	59.3	W
August	478	18	W	W	5.34	18.9	68,195	66,008	W	W	59.8	W
Sept	648	24	W	W	5.57	22.0	63,672	61,594	W	W	60.1	W
October	218	9	W	W	4.62	9.6	57,688	55,868	W	W	54.6	W
November	393	15	W	W	5.27	13.3	65,289	63,274	W	W	61.3	W
December	804	30	W	W	5.46	32.7	69,647	67,528	W	W	61.3	W
Year 2016												
January	400	15	W	W	5.94	16.5	63,795	61,733	W	W	57.6	W
February	122	4	W	W	6.10	4.7	56,903	55,089	W	W	55.3	W
March	574	21	W	W	5.88	18.2	60,786	59,017	W	W	57.3	W
April	669	25	W	W	5.81	29.0	60,713	58,903	W	W	58.9	W
May	206	8	W	W	5.64	8.6	60,417	58,704	W	W	57.4	W
June	222	8	W	W	5.94	8.4	61,662	59,902	W	W	57.7	W
July	222	8	W	W	5.94	8.0	65,190	63,191	W	W	58.3	W
August	217	8	W	W	5.81	8.2	65,565	63,294	W	W	58.0	W
Sept	200	8	W	W	5.64	9.9	62,004	59,964	W	W	57.5	W
October	207	8	W	W	5.66	6.8	62,885	60,993	W	W	59.8	W
November	200	8	W	W	5.47	9.0	65,021	63,167	W	W	59.9	W
December	427	16	W	W	5.99	15.1	67,835	65,784	W	W	58.9	W
Year to Date												
2014	9,736	358	W	W	5.83	23.2	742,347	718,360	W	W	62.7	W
2015	8,189	304	W	W	5.50	24.1	765,964	740,975	W	W	60.6	W
2016	3,664	135	W	W	5.84	11.8	752,775	729,741	W	W	58.1	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 2015 and prior years are final. Values for 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, December 2016 and 2015
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	11	152	-93.0%	0	0	9	151	0	0	2	2
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	11	7	49.0%	0	0	9	6	0	0	2	2
Massachusetts	0	145	-100.0%	0	0	0	145	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	1,882	1,942	-3.1%	0	0	1,865	1,889	0	0	16	54
New Jersey	68	69	-1.5%	0	0	68	69	0	0	0	0
New York	104	53	95.0%	0	0	87	37	0	0	16	16
Pennsylvania	1,710	1,820	-6.1%	0	0	1,710	1,783	0	0	0	37
East North Central	12,078	14,017	-14.0%	7,138	7,835	4,749	5,939	0	0	192	242
Illinois	3,576	4,663	-23.0%	571	779	2,845	3,707	0	0	159	177
Indiana	2,358	2,449	-3.7%	2,283	2,213	74	236	0	0	0	0
Michigan	1,893	2,413	-22.0%	1,872	2,387	18	18	0	0	3	8
Ohio	2,496	2,755	-9.4%	685	752	1,811	1,979	0	0	0	24
Wisconsin	1,756	1,738	1.1%	1,726	1,704	0	0	0	0	29	34
West North Central	9,080	11,099	-18.0%	8,963	10,826	0	0	9	8	108	264
Iowa	1,159	1,528	-24.0%	1,050	1,358	0	0	0	0	108	170
Kansas	1,224	1,457	-16.0%	1,224	1,457	0	0	0	0	0	0
Minnesota	940	1,083	-13.0%	940	1,061	0	0	0	0	0	22
Missouri	2,801	3,283	-15.0%	2,792	3,274	0	0	9	8	0	0
Nebraska	967	1,405	-31.0%	967	1,332	0	0	0	0	0	73
North Dakota	1,893	2,204	-14.0%	1,893	2,204	0	0	0	0	0	0
South Dakota	95	139	-31.0%	95	139	0	0	0	0	0	0
South Atlantic	8,021	8,290	-3.2%	6,717	7,189	1,241	947	0	0	63	154
Delaware	29	0	--	0	0	29	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,059	1,110	-4.6%	1,059	1,071	0	25	0	0	0	13
Georgia	1,508	1,492	1.1%	1,495	1,463	0	0	0	0	13	29
Maryland	683	408	67.0%	0	0	662	383	0	0	21	24
North Carolina	1,038	1,189	-13.0%	1,038	1,144	0	18	0	0	0	27
South Carolina	613	845	-27.0%	610	836	0	0	0	0	4	9
Virginia	588	621	-5.4%	504	544	58	49	0	0	25	27
West Virginia	2,503	2,625	-4.6%	2,012	2,130	492	472	0	0	0	23
East South Central	5,758	4,920	17.0%	5,437	4,659	246	138	0	0	76	123
Alabama	1,288	1,414	-8.9%	1,288	1,414	0	0	0	0	0	0
Kentucky	3,135	2,748	14.0%	3,135	2,748	0	0	0	0	0	0
Mississippi	415	236	76.0%	169	98	246	138	0	0	0	0
Tennessee	920	521	76.0%	845	399	0	0	0	0	76	123
West South Central	11,316	9,514	19.0%	5,091	4,948	6,221	4,515	0	0	5	51
Arkansas	1,271	863	47.0%	1,068	607	198	247	0	0	5	9
Louisiana	733	927	-21.0%	487	648	246	279	0	0	0	0
Oklahoma	1,049	1,477	-29.0%	943	1,367	106	69	0	0	0	42
Texas	8,263	6,247	32.0%	2,592	2,326	5,671	3,921	0	0	0	0
Mountain	7,539	8,152	-7.5%	6,747	7,133	792	1,018	0	0	0	0
Arizona	1,170	1,350	-13.0%	1,170	1,350	0	0	0	0	0	0
Colorado	1,298	1,345	-3.5%	1,298	1,345	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	748	918	-19.0%	0	20	748	898	0	0	0	0
Nevada	44	128	-65.0%	0	84	44	44	0	0	0	0
New Mexico	1,108	1,119	-1.0%	1,108	1,119	0	0	0	0	0	0
Utah	1,095	1,146	-4.4%	1,095	1,112	0	34	0	0	0	0
Wyoming	2,076	2,146	-3.3%	2,076	2,103	0	43	0	0	0	0
Pacific Contiguous	553	445	24.0%	43	153	457	238	0	0	54	54
California	54	54	-1.4%	0	0	0	0	0	0	54	54
Oregon	43	153	-72.0%	43	153	0	0	0	0	0	0
Washington	457	238	92.0%	0	0	457	238	0	0	0	0
Pacific Noncontiguous	77	38	102.0%	14	38	63	0	0	0	0	0
Alaska	14	38	-64.0%	14	38	0	0	0	0	0	0
Hawaii	63	0	--	0	0	63	0	0	0	0	0
U.S. Total	56,315	58,569	-3.8%	40,148	42,781	15,642	14,836	9	8	516	944

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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 for 2015 are final. Values for 2016 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) December 2016 and 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	1,173	2,081	-44.0%	177	657	979	1,395	0	0	17	30
Connecticut	85	251	-66.0%	0	0	85	251	0	0	0	0
Maine	87	104	-16.0%	0	0	70	74	0	0	17	30
Massachusetts	824	1,070	-23.0%	0	0	824	1,070	0	0	0	0
New Hampshire	177	657	-73.0%	177	657	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	20,003	31,548	-37.0%	0	0	19,635	30,693	0	0	368	856
New Jersey	649	854	-24.0%	0	0	649	854	0	0	0	0
New York	637	1,006	-37.0%	0	0	361	698	0	0	277	309
Pennsylvania	18,716	29,689	-37.0%	0	0	18,625	29,142	0	0	91	547
East North Central	136,107	174,849	-22.0%	81,062	100,647	52,728	71,207	0	27	2,317	2,968
Illinois	38,728	55,587	-30.0%	6,947	8,656	30,046	44,727	0	0	1,735	2,204
Indiana	28,698	34,888	-18.0%	27,000	32,030	1,699	2,858	0	0	0	0
Michigan	20,984	29,684	-29.0%	20,724	29,367	247	260	0	27	13	30
Ohio	28,768	31,671	-9.2%	7,880	8,063	20,736	23,362	0	0	152	246
Wisconsin	18,929	23,020	-18.0%	18,511	22,531	0	0	0	0	418	488
West North Central	114,590	139,057	-18.0%	113,315	135,625	0	0	57	81	1,218	3,350
Iowa	17,150	22,411	-23.0%	15,932	20,212	0	0	0	0	1,218	2,199
Kansas	14,425	17,888	-19.0%	14,425	17,888	0	0	0	0	0	0
Minnesota	12,283	17,220	-29.0%	12,283	16,848	0	0	0	14	0	358
Missouri	34,893	41,233	-15.0%	34,836	41,166	0	0	57	67	0	0
Nebraska	12,545	15,326	-18.0%	12,545	14,532	0	0	0	0	0	794
North Dakota	21,961	23,877	-8.0%	21,961	23,877	0	0	0	0	0	0
South Dakota	1,333	1,101	21.0%	1,333	1,101	0	0	0	0	0	0
South Atlantic	94,607	111,710	-15.0%	82,063	96,660	11,704	13,080	0	0	840	1,969
Delaware	243	152	60.0%	0	0	243	152	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	15,033	19,159	-22.0%	14,744	18,339	290	589	0	0	0	230
Georgia	17,397	20,219	-14.0%	17,246	20,005	0	0	0	0	151	214
Maryland	5,583	6,438	-13.0%	0	0	5,354	6,163	0	0	228	276
North Carolina	11,802	16,129	-27.0%	11,802	15,519	0	237	0	0	0	373
South Carolina	7,971	11,163	-29.0%	7,883	11,009	0	0	0	0	88	155
Virginia	7,699	7,791	-1.2%	6,894	6,594	501	855	0	0	304	343
West Virginia	28,880	30,657	-5.8%	23,494	25,194	5,317	5,084	0	0	69	379
East South Central	67,605	76,694	-12.0%	63,383	72,115	3,053	3,133	0	0	1,170	1,447
Alabama	16,261	20,259	-20.0%	16,261	20,259	0	0	0	0	0	0
Kentucky	37,275	40,770	-8.6%	37,275	40,770	0	0	0	0	0	0
Mississippi	4,442	5,125	-13.0%	1,389	1,993	3,053	3,133	0	0	0	0
Tennessee	9,627	10,541	-8.7%	8,458	9,094	0	0	0	0	1,170	1,447
West South Central	110,337	135,422	-19.0%	52,760	70,465	57,516	64,344	0	0	62	613
Arkansas	12,797	14,779	-13.0%	10,593	12,220	2,142	2,475	0	0	62	84
Louisiana	6,912	10,896	-37.0%	5,113	6,480	1,799	4,416	0	0	0	0
Oklahoma	10,678	18,725	-43.0%	9,583	16,884	1,095	1,312	0	0	0	529
Texas	79,950	91,021	-12.0%	27,471	34,881	52,479	56,140	0	0	0	0
Mountain	88,345	105,381	-16.0%	79,085	93,895	9,028	11,259	0	0	231	227
Arizona	15,236	21,535	-29.0%	15,236	21,535	0	0	0	0	0	0
Colorado	15,889	18,272	-13.0%	15,889	18,272	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	8,531	9,997	-15.0%	0	221	8,531	9,777	0	0	0	0
Nevada	956	1,367	-30.0%	459	856	497	510	0	0	0	0
New Mexico	10,909	12,403	-12.0%	10,909	12,403	0	0	0	0	0	0
Utah	13,234	15,203	-13.0%	13,004	14,536	0	440	0	0	231	227
Wyoming	23,588	26,604	-11.0%	23,588	26,072	0	532	0	0	0	0
Pacific Contiguous	4,880	5,421	-10.0%	994	1,476	3,252	3,273	0	0	634	671
California	634	671	-5.6%	0	0	0	0	0	0	634	671
Oregon	994	1,476	-33.0%	994	1,476	0	0	0	0	0	0
Washington	3,252	3,273	-0.6%	0	0	3,252	3,273	0	0	0	0
Pacific Noncontiguous	1,041	765	36.0%	195	166	846	599	0	0	0	0
Alaska	195	166	17.0%	195	166	0	0	0	0	0	0
Hawaii	846	599	41.0%	0	0	846	599	0	0	0	0
U.S. Total	638,688	782,929	-18.0%	473,034	571,707	158,742	198,982	57	109	6,856	12,132

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Notes:
See Glossary for definitions. Values for 2015 are final. Values for 2016 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 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, December 2016 and 2015
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	92	10	820.0%	2	0	90	8	0	0	0	2
Connecticut	2	0	NM	0	0	2	0	0	0	0	0
Maine	7	4	72.0%	0	0	6	2	0	0	0	2
Massachusetts	82	6	NM	0	0	82	6	0	0	0	0
New Hampshire	2	0	NM	2	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	49	189	-74.0%	2	95	45	89	0	0	1	5
New Jersey	5	1	277.0%	0	0	5	1	0	0	0	0
New York	19	146	-87.0%	2	95	16	46	0	0	1	5
Pennsylvania	25	42	-41.0%	0	0	25	42	0	0	0	0
East North Central	100	88	14.0%	50	50	47	31	0	0	3	7
Illinois	11	11	1.0%	1	0	10	11	0	0	0	0
Indiana	12	15	-18.0%	12	15	0	0	0	0	0	0
Michigan	14	14	0.8%	13	13	0	0	0	0	1	1
Ohio	61	40	51.0%	22	14	37	20	0	0	2	6
Wisconsin	2	8	-70.0%	2	8	0	0	0	0	0	0
West North Central	69	54	28.0%	69	54	0	0	0	0	0	0
Iowa	22	17	28.0%	22	17	0	0	0	0	0	0
Kansas	4	19	-81.0%	4	19	0	0	0	0	0	0
Minnesota	3	3	-3.8%	3	3	0	0	0	0	0	0
Missouri	30	12	156.0%	30	12	0	0	0	0	0	0
Nebraska	1	1	-4.5%	1	1	0	0	0	0	0	0
North Dakota	10	3	243.0%	10	3	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	247	439	-44.0%	220	327	14	88	0	0	12	24
Delaware	1	17	-94.0%	0	0	1	17	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	80	32	149.0%	80	31	0	0	0	0	0	1
Georgia	13	15	-16.0%	10	10	0	1	0	0	3	4
Maryland	4	5	-22.0%	0	0	4	5	0	0	0	0
North Carolina	49	17	184.0%	49	16	0	0	0	0	0	1
South Carolina	23	31	-27.0%	13	15	0	0	0	0	10	16
Virginia	44	311	-86.0%	42	244	2	65	0	0	0	2
West Virginia	33	10	223.0%	26	10	7	0	0	0	0	0
East South Central	36	46	-23.0%	35	46	1	0	0	0	0	0
Alabama	6	12	-47.0%	6	12	1	0	0	0	0	0
Kentucky	14	21	-35.0%	14	21	0	0	0	0	0	0
Mississippi	2	2	7.7%	2	2	0	0	0	0	0	0
Tennessee	13	11	21.0%	13	11	0	0	0	0	0	0
West South Central	32	15	122.0%	27	7	5	8	0	0	0	0
Arkansas	12	4	194.0%	11	0	2	4	0	0	0	0
Louisiana	1	1	40.0%	1	0	0	1	0	0	0	0
Oklahoma	1	0	--	1	0	0	0	0	0	0	0
Texas	18	10	89.0%	14	7	4	3	0	0	0	0
Mountain	32	30	6.7%	29	28	3	2	0	0	0	0
Arizona	10	10	-6.5%	10	10	0	0	0	0	0	0
Colorado	1	0	87.0%	1	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	2	29.0%	0	0	2	2	0	0	0	0
Nevada	1	3	-79.0%	0	2	1	1	0	0	0	0
New Mexico	12	9	35.0%	12	9	0	0	0	0	0	0
Utah	2	1	113.0%	2	1	0	0	0	0	0	0
Wyoming	5	5	-0.1%	5	5	0	0	0	0	0	0
Pacific Contiguous	2	8	-77.0%	0	3	2	5	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	3	-100.0%	0	3	0	0	0	0	0	0
Washington	2	5	-62.0%	0	0	2	5	0	0	0	0
Pacific Noncontiguous	649	778	-17.0%	490	600	159	178	0	0	0	0
Alaska	1	1	-51.0%	1	1	0	0	0	0	0	0
Hawaii	648	777	-17.0%	489	599	159	178	0	0	0	0
U.S. Total	1,308	1,657	-21.0%	924	1,209	367	409	0	0	17	38

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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.
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) December 2016 and 2015 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	590	2,937	-80.0%	76	63	509	2,868	0	0	5	6
Connecticut	37	761	-95.0%	0	0	37	761	0	0	0	0
Maine	29	873	-97.0%	0	0	24	867	0	0	5	6
Massachusetts	498	1,107	-55.0%	66	6	432	1,101	0	0	0	0
New Hampshire	11	81	-87.0%	11	58	0	23	0	0	0	0
Rhode Island	15	115	-87.0%	0	0	15	115	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	997	4,179	-76.0%	277	1,544	682	2,616	0	0	38	19
New Jersey	18	119	-84.0%	0	0	18	119	0	0	0	0
New York	581	3,054	-81.0%	277	1,544	283	1,494	0	0	22	16
Pennsylvania	397	1,006	-61.0%	0	0	380	1,003	0	0	17	3
East North Central	1,046	1,081	-3.3%	543	690	472	349	0	0	31	42
Illinois	119	101	17.0%	5	12	114	89	0	0	0	0
Indiana	182	268	-32.0%	182	268	0	0	0	0	0	0
Michigan	178	177	0.1%	168	167	0	0	0	0	9	11
Ohio	517	458	13.0%	141	172	354	256	0	0	21	30
Wisconsin	51	77	-34.0%	47	71	4	4	0	0	0	2
West North Central	400	437	-8.5%	395	437	4	0	0	0	0	0
Iowa	106	78	36.0%	106	78	0	0	0	0	0	0
Kansas	41	89	-54.0%	41	89	0	0	0	0	0	0
Minnesota	39	46	-14.0%	35	46	4	0	0	0	0	0
Missouri	144	145	-0.4%	144	145	0	0	0	0	0	0
Nebraska	4	3	39.0%	4	3	0	0	0	0	0	0
North Dakota	61	46	33.0%	61	46	0	0	0	0	0	0
South Dakota	4	30	-88.0%	4	30	0	0	0	0	0	0
South Atlantic	3,668	5,045	-27.0%	2,800	3,535	652	1,197	0	0	216	313
Delaware	79	199	-60.0%	0	0	79	199	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	911	652	40.0%	904	631	7	4	0	0	0	17
Georgia	264	275	-4.3%	169	142	32	76	0	0	63	57
Maryland	266	457	-42.0%	0	0	266	457	0	0	0	0
North Carolina	310	628	-51.0%	249	547	61	41	0	0	0	40
South Carolina	277	458	-39.0%	150	302	0	7	0	0	127	149
Virginia	1,323	2,159	-39.0%	1,104	1,715	193	396	0	0	27	49
West Virginia	238	215	11.0%	223	199	14	16	0	0	0	0
East South Central	459	493	-6.9%	439	482	11	7	0	0	9	4
Alabama	67	86	-23.0%	55	79	11	7	0	0	0	0
Kentucky	188	196	-4.0%	188	196	0	0	0	0	0	0
Mississippi	26	47	-44.0%	26	47	0	0	0	0	0	0
Tennessee	178	165	8.3%	169	161	0	0	0	0	9	4
West South Central	287	342	-16.0%	215	237	72	106	0	0	0	0
Arkansas	74	98	-24.0%	57	71	18	27	0	0	0	0
Louisiana	54	94	-43.0%	52	70	2	25	0	0	0	0
Oklahoma	29	4	672.0%	29	4	0	0	0	0	0	0
Texas	129	146	-12.0%	77	92	52	54	0	0	0	0
Mountain	351	360	-2.4%	321	337	30	23	0	0	0	0
Arizona	108	104	3.4%	108	104	0	0	0	0	0	0
Colorado	14	6	128.0%	14	6	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	24	15	65.0%	0	0	24	15	0	0	0	0
Nevada	22	30	-29.0%	16	24	6	6	0	0	0	0
New Mexico	84	103	-18.0%	84	103	0	0	0	0	0	0
Utah	26	30	-12.0%	26	28	0	2	0	0	0	0
Wyoming	73	71	2.8%	73	71	0	0	0	0	0	0
Pacific Contiguous	20	23	-14.0%	4	9	15	14	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	3	8	-56.0%	3	8	0	0	0	0	0	0
Washington	16	15	8.2%	1	1	15	14	0	0	0	0
Pacific Noncontiguous	8,793	9,423	-6.7%	6,872	7,413	1,921	2,010	0	0	0	0
Alaska	9	17	-48.0%	9	17	0	0	0	0	0	0
Hawaii	8,784	9,406	-6.6%	6,863	7,396	1,921	2,010	0	0	0	0
U.S. Total	16,610	24,320	-32.0%	11,943	14,747	4,369	9,189	0	0	299	385

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 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	9	-100.0%	0	0	0	0	0	0	0	9
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	9	-100.0%	0	0	0	0	0	0	0	9
East North Central	74	118	-37.0%	19	45	55	65	0	0	0	7
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	39	-100.0%	0	39	0	0	0	0	0	0
Michigan	17	0	NM	17	0	0	0	0	0	0	0
Ohio	55	65	-16.0%	0	0	55	65	0	0	0	0
Wisconsin	2	13	-82.0%	2	6	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	99	82	20.0%	83	67	0	0	0	0	16	15
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	83	67	23.0%	83	67	0	0	0	0	0	0
Georgia	16	15	6.8%	0	0	0	0	0	0	16	15
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	14	64	-78.0%	14	64	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	14	64	-78.0%	14	64	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	168	121	39.0%	168	121	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	168	121	39.0%	168	121	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	355	393	-9.7%	284	297	55	65	0	0	16	30

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 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	107	-100.0%	0	0	0	0	0	0	0	107
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	107	-100.0%	0	0	0	0	0	0	0	107
East North Central	1,014	1,309	-23.0%	504	711	492	524	0	0	18	75
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	162	393	-59.0%	162	393	0	0	0	0	0	0
Michigan	295	295	-0.1%	295	282	0	13	0	0	0	0
Ohio	492	511	-3.6%	0	0	492	511	0	0	0	0
Wisconsin	66	111	-41.0%	47	36	0	0	0	0	18	75
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	1,441	1,125	28.0%	1,324	1,003	0	0	0	0	117	122
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	1,324	1,003	32.0%	1,324	1,003	0	0	0	0	0	0
Georgia	117	122	-3.8%	0	0	0	0	0	0	117	122
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	92	623	-85.0%	92	623	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	92	623	-85.0%	92	623	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	1,619	1,732	-6.5%	1,619	1,732	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,619	1,732	-6.5%	1,619	1,732	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	4,166	4,897	-15.0%	3,538	4,069	492	524	0	0	135	304

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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, December 2016 and 2015
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	25,355	27,081	-6.4%	73	44	25,281	27,036	0	0	0	0
Connecticut	9,332	10,904	-14.0%	0	0	9,332	10,904	0	0	0	0
Maine	822	1,495	-45.0%	0	0	822	1,495	0	0	0	0
Massachusetts	10,170	8,893	14.0%	48	44	10,122	8,849	0	0	0	0
New Hampshire	2,206	2,709	-19.0%	25	0	2,181	2,709	0	0	0	0
Rhode Island	2,825	3,079	-8.2%	0	0	2,825	3,079	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	87,120	82,025	6.2%	5,919	7,659	80,766	74,181	0	0	435	185
New Jersey	20,467	21,323	-4.0%	0	0	20,467	21,323	0	0	0	0
New York	29,468	27,337	7.8%	5,919	7,659	23,480	19,602	0	0	69	75
Pennsylvania	37,185	33,365	11.0%	0	0	36,818	33,256	0	0	367	109
East North Central	58,131	61,574	-5.6%	24,684	28,693	31,343	31,659	491	460	1,613	761
Illinois	7,449	7,031	6.0%	649	444	6,798	6,582	0	0	3	5
Indiana	12,787	12,604	1.4%	10,593	9,797	2,194	2,807	0	0	0	0
Michigan	15,063	15,436	-2.4%	4,172	4,335	9,795	10,276	491	460	605	365
Ohio	15,928	16,996	-6.3%	3,878	5,279	11,587	11,582	0	0	463	135
Wisconsin	6,903	9,507	-27.0%	5,392	8,838	969	413	0	0	542	257
West North Central	10,316	11,493	-10.0%	8,050	9,698	1,900	1,476	58	47	308	272
Iowa	2,563	1,951	31.0%	2,255	1,949	0	0	0	0	308	2
Kansas	936	422	122.0%	936	422	0	0	0	0	0	0
Minnesota	3,104	5,806	-47.0%	2,194	5,109	910	427	0	0	0	270
Missouri	3,300	2,641	25.0%	2,252	1,544	990	1,049	58	47	0	0
Nebraska	163	114	43.0%	163	114	0	0	0	0	0	0
North Dakota	52	11	382.0%	52	11	0	0	0	0	0	0
South Dakota	198	548	-64.0%	198	548	0	0	0	0	0	0
South Atlantic	156,773	175,825	-11.0%	136,782	145,911	15,996	25,930	0	0	3,994	3,983
Delaware	2,966	3,202	-7.4%	0	0	1,941	1,970	0	0	1,025	1,231
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	74,701	87,255	-14.0%	73,361	84,466	1,340	2,693	0	0	0	95
Georgia	26,652	24,071	11.0%	22,156	16,367	3,700	6,596	0	0	796	1,108
Maryland	584	2,428	-76.0%	0	0	379	2,265	0	0	205	163
North Carolina	21,670	22,915	-5.4%	19,150	20,245	2,520	2,195	0	0	0	475
South Carolina	7,486	11,444	-35.0%	6,836	10,244	178	1,035	0	0	472	164
Virginia	21,890	23,968	-8.7%	15,237	14,547	5,863	8,675	0	0	790	746
West Virginia	824	542	52.0%	42	42	75	500	0	0	706	0
East South Central	74,003	67,437	9.7%	51,147	40,401	21,505	26,057	0	0	1,351	980
Alabama	29,677	30,892	-3.9%	9,705	7,157	19,972	23,735	0	0	0	0
Kentucky	5,480	3,475	58.0%	5,218	3,475	262	0	0	0	0	0
Mississippi	29,564	25,940	14.0%	28,292	23,618	1,272	2,322	0	0	0	0
Tennessee	9,282	7,130	30.0%	7,931	6,151	0	0	0	0	1,351	980
West South Central	184,871	237,212	-22.0%	44,024	67,772	86,296	111,926	0	0	54,551	57,514
Arkansas	7,064	7,048	0.2%	1,686	2,777	5,148	3,885	0	0	230	386
Louisiana	37,073	49,795	-26.0%	15,418	25,461	3,245	5,796	0	0	18,409	18,538
Oklahoma	16,923	22,896	-26.0%	11,722	16,414	5,201	6,369	0	0	0	113
Texas	123,812	157,473	-21.0%	15,198	23,121	72,702	95,875	0	0	35,912	38,477
Mountain	42,272	53,619	-21.0%	34,225	43,271	7,979	10,344	0	0	67	4
Arizona	9,664	17,355	-44.0%	6,234	11,479	3,430	5,876	0	0	0	0
Colorado	6,844	8,042	-15.0%	5,513	6,947	1,331	1,095	0	0	0	0
Idaho	1,656	2,670	-38.0%	802	1,502	854	1,168	0	0	0	0
Montana	0	598	-100.0%	0	595	0	3	0	0	0	0
Nevada	14,394	14,153	1.7%	14,394	14,153	0	0	0	0	0	0
New Mexico	5,691	6,033	-5.7%	3,370	3,831	2,321	2,202	0	0	0	0
Utah	4,019	4,705	-15.0%	3,907	4,701	44	0	0	0	67	4
Wyoming	4	64	-94.0%	4	63	0	0	0	0	0	0
Pacific Contiguous	66,309	74,091	-11.0%	29,810	28,782	33,034	41,480	0	0	3,464	3,829
California	47,582	57,211	-17.0%	18,838	18,980	25,280	34,401	0	0	3,464	3,829
Oregon	12,407	8,916	39.0%	6,462	4,957	5,945	3,959	0	0	0	0
Washington	6,320	7,965	-21.0%	4,510	4,844	1,810	3,121	0	0	0	0
Pacific Noncontiguous	905	1,341	-33.0%	905	1,341	0	0	0	0	0	0
Alaska	905	1,341	-33.0%	905	1,341	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	706,054	791,698	-11.0%	335,619	373,572	304,102	350,090	549	507	65,784	67,528

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	372,811	370,575	0.6%	1,973	2,208	370,838	368,367	0	0	0	0
Connecticut	118,539	116,115	2.1%	0	0	118,539	116,115	0	0	0	0
Maine	22,591	18,262	24.0%	0	0	22,591	18,262	0	0	0	0
Massachusetts	150,999	145,641	3.7%	1,497	1,900	149,502	143,741	0	0	0	0
New Hampshire	33,883	42,713	-21.0%	476	308	33,407	42,405	0	0	0	0
Rhode Island	46,798	47,843	-2.2%	0	0	46,798	47,843	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,209,229	1,103,350	9.6%	101,020	100,143	1,105,431	1,001,191	0	0	2,779	2,016
New Jersey	309,871	266,209	16.0%	0	0	309,871	266,209	0	0	0	0
New York	422,838	421,822	0.2%	101,020	100,143	320,919	320,884	0	0	900	794
Pennsylvania	476,520	415,319	15.0%	0	0	474,641	414,097	0	0	1,879	1,222
East North Central	844,823	650,392	30.0%	372,695	289,805	454,374	348,022	6,357	5,235	11,398	7,331
Illinois	134,819	72,846	85.0%	12,793	4,906	121,989	67,883	0	0	36	57
Indiana	148,401	113,996	30.0%	121,845	90,386	26,556	23,610	0	0	0	0
Michigan	237,232	160,213	48.0%	83,225	49,690	141,907	101,036	6,357	5,235	5,744	4,252
Ohio	209,621	204,922	2.3%	55,167	55,607	152,722	148,304	0	0	1,733	1,012
Wisconsin	114,750	98,416	17.0%	99,664	89,216	11,201	7,189	0	0	3,885	2,010
West North Central	169,322	133,003	27.0%	141,788	113,623	25,263	17,690	1,409	1,136	862	555
Iowa	31,386	24,510	28.0%	30,523	24,490	0	0	0	0	862	19
Kansas	17,007	11,865	43.0%	17,007	11,865	0	0	0	0	0	0
Minnesota	63,138	51,801	22.0%	49,834	43,836	13,294	7,372	10	74	0	519
Missouri	45,769	35,353	29.0%	32,401	23,974	11,970	10,318	1,399	1,062	0	0
Nebraska	4,312	3,510	23.0%	4,312	3,493	0	0	0	0	0	16
North Dakota	1,906	520	266.0%	1,906	520	0	0	0	0	0	0
South Dakota	5,804	5,444	6.6%	5,804	5,444	0	0	0	0	0	0
South Atlantic	2,396,354	2,253,356	6.3%	1,942,448	1,847,641	413,517	363,728	0	0	40,388	41,987
Delaware	63,408	54,963	15.0%	0	0	49,502	41,150	0	0	13,906	13,812
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,153,072	1,124,717	2.5%	1,072,377	1,072,494	80,695	51,313	0	0	0	910
Georgia	390,148	363,615	7.3%	297,542	258,451	82,871	92,429	0	0	9,735	12,736
Maryland	47,562	37,007	29.0%	0	0	45,379	36,516	0	0	2,182	492
North Carolina	292,579	273,890	6.8%	253,834	238,411	38,745	29,779	0	0	0	5,700
South Carolina	130,416	131,628	-0.9%	105,944	118,356	22,310	12,522	0	0	2,162	750
Virginia	304,679	254,277	20.0%	211,213	158,515	85,355	88,175	0	0	8,111	7,587
West Virginia	14,489	13,259	9.3%	1,537	1,414	8,659	11,845	0	0	4,293	0
East South Central	939,721	843,264	11.0%	621,230	520,943	306,493	312,000	0	0	11,998	10,321
Alabama	394,076	376,645	4.6%	115,349	94,387	278,728	282,258	0	0	0	0
Kentucky	67,374	54,355	24.0%	61,862	48,420	5,511	5,935	0	0	0	0
Mississippi	378,393	332,183	14.0%	356,139	308,376	22,254	23,806	0	0	0	0
Tennessee	99,878	80,081	25.0%	87,879	69,760	0	0	0	0	11,998	10,321
West South Central	2,862,684	2,915,238	-1.8%	864,304	836,372	1,376,792	1,439,913	0	0	621,587	638,953
Arkansas	133,676	109,604	22.0%	50,915	31,168	80,503	74,489	0	0	2,258	3,948
Louisiana	537,324	540,484	-0.6%	273,007	299,974	50,056	36,611	0	0	214,261	203,898
Oklahoma	275,744	254,326	8.4%	193,111	168,137	82,633	85,496	0	0	0	693
Texas	1,915,941	2,010,824	-4.7%	347,272	337,093	1,163,601	1,243,317	0	0	405,068	430,414
Mountain	684,305	670,939	2.0%	528,723	507,474	154,814	162,953	0	0	768	512
Arizona	254,186	247,291	2.8%	148,527	138,854	105,659	108,437	0	0	0	0
Colorado	90,645	87,626	3.4%	76,165	70,667	14,481	16,960	0	0	0	0
Idaho	20,974	24,559	-15.0%	12,110	14,164	8,865	10,395	0	0	0	0
Montana	0	4,978	-100.0%	0	4,957	0	21	0	0	0	0
Nevada	191,152	188,354	1.5%	191,152	188,354	0	0	0	0	0	0
New Mexico	73,286	65,736	11.0%	48,589	39,673	24,697	26,063	0	0	0	0
Utah	54,022	51,263	5.4%	52,142	49,682	1,112	1,070	0	0	768	512
Wyoming	39	1,131	-97.0%	39	1,124	0	8	0	0	0	0
Pacific Contiguous	766,517	886,660	-14.0%	305,799	331,027	420,758	516,331	0	0	39,960	39,302
California	591,709	720,997	-18.0%	210,484	234,515	341,266	447,181	0	0	39,960	39,302
Oregon	106,814	85,639	25.0%	52,607	46,071	54,207	39,567	0	0	0	0
Washington	67,994	80,024	-15.0%	42,708	50,441	25,285	29,583	0	0	0	0
Pacific Noncontiguous	12,979	15,803	-18.0%	12,979	15,803	0	0	0	0	0	0
Alaska	12,979	15,803	-18.0%	12,979	15,803	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	10,258,745	9,842,581	4.2%	4,892,960	4,565,040	4,628,280	4,530,195	7,766	6,371	729,741	740,975

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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, December 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.09	2.16	-3.2%	--	--	2.09	2.16
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	W	2.07	W	--	--	W	2.07
East North Central	2.04	2.13	-4.2%	2.15	2.21	1.87	2.02
Illinois	W	1.93	W	1.87	2.05	W	1.90
Indiana	W	W	W	2.23	2.28	W	W
Michigan	W	W	W	2.22	2.28	W	W
Ohio	2.00	W	W	1.79	2.04	2.07	W
Wisconsin	2.21	2.16	2.3%	2.21	2.16	--	--
West North Central	1.73	1.67	3.6%	1.73	1.67	--	--
Iowa	1.56	1.49	4.7%	1.56	1.49	--	--
Kansas	1.69	1.69	0.0%	1.69	1.69	--	--
Minnesota	2.01	1.86	8.1%	2.01	1.86	--	--
Missouri	1.90	1.84	3.3%	1.90	1.84	--	--
Nebraska	1.36	1.29	5.4%	1.36	1.29	--	--
North Dakota	1.59	1.63	-2.5%	1.59	1.63	--	--
South Dakota	2.33	2.03	15.0%	2.33	2.03	--	--
South Atlantic	2.68	2.86	-6.3%	2.70	2.93	2.54	2.32
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.96	W	W	2.96	3.10	--	W
Georgia	2.69	2.97	-9.4%	2.69	2.97	--	--
Maryland	2.93	2.92	0.3%	--	--	2.93	2.92
North Carolina	3.09	3.38	-8.6%	3.09	3.38	--	3.46
South Carolina	3.24	3.46	-6.4%	3.24	3.46	--	--
Virginia	W	2.93	W	2.68	2.88	W	3.39
West Virginia	W	W	W	2.22	2.37	W	W
East South Central	W	W	W	2.08	2.27	W	W
Alabama	1.87	2.38	-21.0%	1.87	2.38	--	--
Kentucky	2.09	2.18	-4.1%	2.09	2.18	--	--
Mississippi	W	W	W	2.75	2.56	W	W
Tennessee	2.22	2.44	-9.0%	2.22	2.44	--	--
West South Central	1.93	2.05	-5.9%	2.21	2.32	1.68	1.73
Arkansas	W	W	W	2.10	2.29	W	W
Louisiana	W	W	W	3.47	3.78	W	W
Oklahoma	W	W	W	1.95	1.94	W	W
Texas	1.80	1.86	-3.2%	2.13	2.16	1.64	1.67
Mountain	W	W	W	1.87	1.89	W	W
Arizona	2.03	1.99	2.0%	2.03	1.99	--	--
Colorado	1.61	1.83	-12.0%	1.61	1.83	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	1.53	W	W
Nevada	W	W	W	--	2.08	W	W
New Mexico	2.14	2.31	-7.4%	2.14	2.31	--	--
Utah	1.94	1.90	2.1%	1.94	1.90	--	--
Wyoming	1.73	W	W	1.73	1.61	--	W
Pacific Contiguous	W	W	W	2.33	2.31	W	W
California	--	--	--	--	--	--	--
Oregon	2.33	2.31	0.9%	2.33	2.31	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	3.30	W	3.05	3.30	W	--
Alaska	3.05	3.30	-7.6%	3.05	3.30	--	--
Hawaii	W	--	W	--	--	W	--
U.S. Total	2.07	2.15	-3.7%	2.13	2.21	1.92	1.96

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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) December 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	W	3.47	W	4.07	3.87	W	3.25
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.07	3.87	5.2%	4.07	3.87	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.02	2.34	-14.0%	--	--	2.02	2.34
New Jersey	W	3.82	W	--	--	W	3.82
New York	W	2.83	W	--	--	W	2.83
Pennsylvania	1.95	2.28	-14.0%	--	--	1.95	2.28
East North Central	2.08	2.18	-4.6%	2.18	2.29	1.94	2.04
Illinois	W	1.92	W	1.97	2.06	W	1.89
Indiana	W	W	W	2.25	2.32	W	W
Michigan	W	W	W	2.24	2.39	W	W
Ohio	2.06	W	W	1.88	2.12	2.12	W
Wisconsin	2.21	2.27	-2.6%	2.21	2.27	--	--
West North Central	1.72	1.72	0.0%	1.72	1.72	--	--
Iowa	1.59	1.62	-1.9%	1.59	1.62	--	--
Kansas	1.70	1.70	0.0%	1.70	1.70	--	--
Minnesota	2.05	1.90	7.9%	2.05	1.90	--	--
Missouri	1.87	1.90	-1.6%	1.87	1.90	--	--
Nebraska	1.35	1.34	0.7%	1.35	1.34	--	--
North Dakota	1.54	1.56	-1.3%	1.54	1.56	--	--
South Dakota	2.25	2.23	0.9%	2.25	2.23	--	--
South Atlantic	2.74	2.93	-6.5%	2.78	2.97	2.53	2.64
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.01	3.08	W	W
Georgia	2.79	2.93	-4.8%	2.79	2.93	--	--
Maryland	2.85	2.87	-0.7%	--	--	2.85	2.87
North Carolina	3.10	3.47	-11.0%	3.10	3.47	--	3.55
South Carolina	3.19	3.55	-10.0%	3.19	3.55	--	--
Virginia	W	2.95	W	2.88	2.87	W	3.49
West Virginia	W	2.31	W	2.29	2.37	W	1.96
East South Central	W	W	W	2.19	2.32	W	W
Alabama	2.32	2.44	-4.9%	2.32	2.44	--	--
Kentucky	2.11	2.22	-5.0%	2.11	2.22	--	--
Mississippi	W	W	W	2.69	3.06	W	W
Tennessee	2.23	2.39	-6.7%	2.23	2.39	--	--
West South Central	1.92	2.07	-7.2%	2.15	2.20	1.68	1.90
Arkansas	W	W	W	2.17	2.26	W	W
Louisiana	W	W	W	2.92	3.18	W	W
Oklahoma	W	W	W	1.91	1.97	W	W
Texas	1.80	1.97	-8.6%	2.09	2.13	1.64	1.87
Mountain	W	W	W	1.89	1.92	W	W
Arizona	2.13	2.07	2.9%	2.13	2.07	--	--
Colorado	1.85	1.83	1.1%	1.85	1.83	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	1.72	W	W
Nevada	W	W	W	2.02	2.47	W	W
New Mexico	1.90	2.34	-19.0%	1.90	2.34	--	--
Utah	1.94	1.94	0.0%	1.94	1.94	--	--
Wyoming	1.71	W	W	1.71	1.63	--	W
Pacific Contiguous	W	W	W	2.25	2.38	W	W
California	--	--	--	--	--	--	--
Oregon	2.25	2.38	-5.5%	2.25	2.38	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.08	3.27	W	W
Alaska	3.08	3.27	-5.8%	3.08	3.27	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.11	2.21	-4.5%	2.16	2.25	1.94	2.10

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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, December 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015
New England	W	W	W	14.48	16.59	W	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	21.63	21.58	W	W
New Hampshire	13.93	12.50	11.0%	13.93	12.50	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	12.11	W	W	12.10	5.74	12.11	W
New Jersey	9.53	8.30	15.0%	--	--	9.53	8.30
New York	11.87	W	W	12.10	5.74	11.83	W
Pennsylvania	12.77	9.30	37.0%	--	--	12.77	9.30
East North Central	12.73	9.35	36.0%	12.91	9.19	12.55	9.60
Illinois	12.19	W	W	11.89	9.03	12.23	W
Indiana	12.67	9.74	30.0%	12.67	9.74	--	--
Michigan	11.07	8.87	25.0%	11.07	8.87	--	--
Ohio	13.24	W	W	14.31	9.05	12.63	W
Wisconsin	12.08	8.91	36.0%	12.08	8.91	--	--
West North Central	12.31	9.46	30.0%	12.31	9.46	--	--
Iowa	11.97	9.40	27.0%	11.97	9.40	--	--
Kansas	11.76	9.80	20.0%	11.76	9.80	--	--
Minnesota	12.37	7.74	60.0%	12.37	7.74	--	--
Missouri	13.08	9.34	40.0%	13.08	9.34	--	--
Nebraska	12.84	9.33	38.0%	12.84	9.33	--	--
North Dakota	10.92	9.96	9.6%	10.92	9.96	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	10.81	8.18	32.0%	10.70	7.64	12.57	10.81
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	9.37	9.15	2.4%	9.37	9.15	--	--
Georgia	W	8.55	W	11.98	8.55	W	--
Maryland	11.79	W	W	--	--	11.79	W
North Carolina	12.56	W	W	12.56	9.25	--	W
South Carolina	13.08	11.45	14.0%	13.08	11.45	--	--
Virginia	W	W	W	8.56	6.98	W	W
West Virginia	W	11.31	W	13.48	11.31	W	--
East South Central	W	9.19	W	12.47	9.19	W	--
Alabama	W	8.84	W	12.89	8.84	W	--
Kentucky	12.57	9.52	32.0%	12.57	9.52	--	--
Mississippi	11.99	9.18	31.0%	11.99	9.18	--	--
Tennessee	12.26	8.88	38.0%	12.26	8.88	--	--
West South Central	12.14	11.19	8.5%	12.12	10.02	12.26	12.23
Arkansas	W	W	W	12.03	--	W	W
Louisiana	11.96	W	W	11.96	--	--	W
Oklahoma	12.24	--	--	12.24	--	--	--
Texas	W	W	W	12.19	10.02	W	W
Mountain	W	W	W	13.07	12.28	W	W
Arizona	12.65	10.96	15.0%	12.65	10.96	--	--
Colorado	12.59	10.74	17.0%	12.59	10.74	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	11.66	W	W
New Mexico	13.57	13.33	1.8%	13.57	13.33	--	--
Utah	13.34	W	W	13.34	10.55	--	W
Wyoming	12.71	13.60	-6.5%	12.71	13.60	--	--
Pacific Contiguous	W	W	W	--	10.41	W	W
California	--	--	--	--	--	--	--
Oregon	--	10.41	--	--	10.41	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	9.99	9.07	W	W
Alaska	15.94	12.93	23.0%	15.94	12.93	--	--
Hawaii	W	W	W	9.98	9.06	W	W
U.S. Total	W	8.76	W	10.73	8.52	W	9.61

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	8.92	W	W	9.76	11.50	8.80	W
Connecticut	10.94	W	W	--	--	10.94	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	11.84	W	9.64	22.00	W	11.79
New Hampshire	10.52	W	W	10.52	10.54	--	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	10.11	11.27	-10.0%	7.83	8.78	11.09	13.04
New Jersey	9.74	13.93	-30.0%	--	--	9.74	13.93
New York	9.87	10.77	-8.4%	7.83	8.78	11.88	12.94
Pennsylvania	10.51	13.13	-20.0%	--	--	10.51	13.13
East North Central	W	13.52	W	10.85	13.57	W	13.41
Illinois	10.87	W	W	11.05	14.05	10.87	W
Indiana	10.58	13.78	-23.0%	10.58	13.78	--	--
Michigan	10.49	12.86	-18.0%	10.49	12.86	--	--
Ohio	W	13.44	W	11.42	13.54	W	13.37
Wisconsin	W	W	W	11.48	14.44	W	W
West North Central	W	12.40	W	10.81	12.40	W	--
Iowa	11.26	12.24	-8.0%	11.26	12.24	--	--
Kansas	10.43	12.07	-14.0%	10.43	12.07	--	--
Minnesota	W	13.13	W	11.38	13.13	W	--
Missouri	11.09	12.88	-14.0%	11.09	12.88	--	--
Nebraska	11.28	18.25	-38.0%	11.28	18.25	--	--
North Dakota	9.41	12.65	-26.0%	9.41	12.65	--	--
South Dakota	8.54	9.48	-9.9%	8.54	9.48	--	--
South Atlantic	9.95	12.45	-20.0%	9.85	12.16	10.45	13.49
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	11.43	14.24	W	W
Georgia	9.39	15.88	-41.0%	9.68	16.66	7.86	14.11
Maryland	9.65	10.79	-11.0%	--	--	9.65	10.79
North Carolina	W	W	W	10.58	13.22	W	W
South Carolina	11.17	14.83	-25.0%	11.17	14.83	--	--
Virginia	W	11.30	W	7.99	10.19	W	16.49
West Virginia	W	W	W	11.48	13.89	W	W
East South Central	W	W	W	10.44	12.57	W	W
Alabama	W	W	W	10.12	12.66	W	W
Kentucky	10.62	13.21	-20.0%	10.62	13.21	--	--
Mississippi	9.56	10.43	-8.3%	9.56	10.43	--	--
Tennessee	10.47	12.40	-16.0%	10.47	12.40	--	--
West South Central	10.69	13.12	-19.0%	10.55	13.00	11.10	13.39
Arkansas	W	W	W	10.38	13.26	W	W
Louisiana	W	W	W	9.70	12.53	W	W
Oklahoma	12.14	13.81	-12.0%	12.14	13.81	--	--
Texas	W	W	W	10.66	13.12	W	W
Mountain	W	14.68	W	11.37	14.70	W	14.33
Arizona	11.31	13.67	-17.0%	11.31	13.67	--	--
Colorado	10.25	14.74	-30.0%	10.25	14.74	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	11.79	16.50	W	W
New Mexico	11.32	15.53	-27.0%	11.32	15.53	--	--
Utah	11.75	W	W	11.75	14.72	--	W
Wyoming	11.49	14.38	-20.0%	11.49	14.38	--	--
Pacific Contiguous	W	W	W	11.43	11.19	W	W
California	--	--	--	--	--	--	--
Oregon	11.19	11.19	0.0%	11.19	11.19	--	--
Washington	W	W	W	12.29	11.29	W	W
Pacific Noncontiguous	W	W	W	8.50	10.94	W	W
Alaska	14.43	17.12	-16.0%	14.43	17.12	--	--
Hawaii	W	W	W	8.50	10.93	W	W
U.S. Total	9.35	11.45	-18.0%	9.16	11.32	9.92	11.69

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	W	W	W	1.36	1.05	W	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.30	1.59	-18.0%	1.30	1.59	--	--
Ohio	W	W	W	--	--	W	W
Wisconsin	1.77	1.73	2.3%	1.77	1.73	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.75	1.48	18.0%	1.75	1.48	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.75	1.48	18.0%	1.75	1.48	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.54	1.53	0.7%	1.54	1.53	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.54	1.53	0.7%	1.54	1.53	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.21	1.30	70.0%	2.21	1.30	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.21	1.30	70.0%	2.21	1.30	--	--
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	1.99	1.35	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) December 2016 and 2015 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 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	1.23	1.29	W	W
Illinois	--	--	--	--	--	--	--
Indiana	0.96	0.95	1.1%	0.96	0.95	--	--
Michigan	1.30	W	W	1.30	1.76	--	W
Ohio	W	W	W	--	--	W	W
Wisconsin	1.72	1.68	2.4%	1.72	1.68	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.54	2.12	-27.0%	1.54	2.12	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.54	2.12	-27.0%	1.54	2.12	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.55	1.68	-7.7%	1.55	1.68	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.55	1.68	-7.7%	1.55	1.68	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.58	1.80	-12.0%	1.58	1.80	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.58	1.80	-12.0%	1.58	1.80	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.64	1.85	-11.0%	1.52	1.77	2.50	2.45

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2016	December 2015	Percentage Change	December 2016	December 2015	December 2016	December 2015
New England	6.27	W	W	7.25	3.37	6.27	W
Connecticut	5.34	4.93	8.3%	--	--	5.34	4.93
Maine	W	4.15	W	--	--	W	4.15
Massachusetts	6.80	2.45	178.0%	7.46	3.36	6.80	2.44
New Hampshire	W	W	W	6.84	7.10	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	4.14	2.01	106.0%	6.52	3.59	3.93	1.82
New Jersey	3.87	1.63	137.0%	--	--	3.87	1.63
New York	5.30	2.86	85.0%	6.52	3.59	4.93	2.55
Pennsylvania	3.40	1.48	130.0%	--	--	3.40	1.48
East North Central	3.67	2.13	72.0%	3.78	2.19	3.58	2.08
Illinois	W	W	W	3.80	2.62	W	W
Indiana	W	W	W	3.85	2.27	W	W
Michigan	3.80	2.10	81.0%	4.06	1.81	3.69	2.23
Ohio	3.24	1.79	81.0%	3.37	1.76	3.20	1.81
Wisconsin	W	W	W	3.72	2.54	W	W
West North Central	4.04	W	W	4.04	2.71	4.03	W
Iowa	3.64	2.44	49.0%	3.64	2.44	--	--
Kansas	4.89	4.52	8.2%	4.89	4.52	--	--
Minnesota	W	W	W	4.33	2.74	W	W
Missouri	W	W	W	3.82	2.55	W	W
Nebraska	4.46	3.44	30.0%	4.46	3.44	--	--
North Dakota	3.60	7.24	-50.0%	3.60	7.24	--	--
South Dakota	3.67	2.13	72.0%	3.67	2.13	--	--
South Atlantic	4.39	3.40	29.0%	4.43	3.52	3.88	2.26
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.92	W	4.53	3.93	W	2.06
Georgia	W	W	W	4.18	2.33	W	W
Maryland	4.68	2.93	60.0%	--	--	4.68	2.93
North Carolina	W	W	W	4.42	3.80	W	W
South Carolina	W	W	W	3.99	2.73	W	W
Virginia	W	W	W	4.51	2.73	W	W
West Virginia	5.43	1.41	285.0%	3.48	1.57	6.52	1.39
East South Central	3.75	2.31	62.0%	3.77	2.37	3.68	2.20
Alabama	W	W	W	4.03	2.34	W	W
Kentucky	W	3.38	W	4.56	3.38	W	--
Mississippi	W	W	W	3.63	2.24	W	W
Tennessee	3.42	2.32	47.0%	3.42	2.32	--	--
West South Central	3.52	2.15	64.0%	3.91	2.26	3.29	2.07
Arkansas	W	W	W	5.52	2.56	W	W
Louisiana	W	W	W	3.89	2.18	W	W
Oklahoma	W	W	W	3.93	2.23	W	W
Texas	3.34	2.15	55.0%	3.73	2.33	3.24	2.10
Mountain	3.91	2.77	41.0%	3.91	2.76	3.96	2.93
Arizona	W	W	W	4.64	2.83	W	W
Colorado	W	W	W	3.96	2.90	W	W
Idaho	4.05	2.41	68.0%	4.05	2.41	--	--
Montana	--	W	W	--	1.91	--	W
Nevada	3.62	2.87	26.0%	3.62	2.87	--	--
New Mexico	4.02	2.33	73.0%	4.02	2.33	--	--
Utah	W	W	W	3.57	2.54	W	W
Wyoming	8.19	W	W	8.19	6.03	--	W
Pacific Contiguous	3.80	2.83	34.0%	3.99	3.11	3.60	2.59
California	3.92	2.87	37.0%	4.46	3.21	3.55	2.63
Oregon	W	W	W	2.83	2.52	W	W
Washington	W	W	W	4.09	3.39	W	W
Pacific Noncontiguous	7.17	5.41	33.0%	7.17	5.41	--	--
Alaska	7.17	5.41	33.0%	7.17	5.41	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	4.02	2.62	53.0%	4.15	2.93	3.83	2.21

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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) December 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	December 2016 YTD	December 2015 YTD	Percentage Change	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	3.31	4.29	-23.0%	3.64	3.92	3.30	4.30
Connecticut	3.58	4.60	-22.0%	--	--	3.58	4.60
Maine	W	W	W	--	--	W	W
Massachusetts	3.13	4.21	-26.0%	3.51	3.76	3.12	4.22
New Hampshire	W	W	W	4.07	4.92	W	W
Rhode Island	W	3.62	W	--	--	W	3.62
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.23	2.92	-24.0%	2.74	3.70	2.17	2.82
New Jersey	2.13	2.87	-26.0%	--	--	2.13	2.87
New York	2.68	3.41	-21.0%	2.74	3.70	2.65	3.31
Pennsylvania	1.87	2.42	-23.0%	--	--	1.87	2.42
East North Central	2.64	2.82	-6.4%	2.78	2.94	2.53	2.72
Illinois	2.82	W	W	3.04	3.71	2.79	W
Indiana	W	W	W	2.92	2.93	W	W
Michigan	2.71	3.12	-13.0%	2.88	3.10	2.62	3.13
Ohio	2.23	2.28	-2.2%	2.24	2.38	2.22	2.25
Wisconsin	W	W	W	2.77	3.17	W	W
West North Central	2.93	W	W	2.93	3.44	2.95	W
Iowa	2.66	3.06	-13.0%	2.66	3.06	--	--
Kansas	3.36	3.78	-11.0%	3.36	3.78	--	--
Minnesota	W	W	W	3.05	3.62	W	W
Missouri	W	W	W	2.85	3.27	W	W
Nebraska	3.10	3.71	-16.0%	3.10	3.71	--	--
North Dakota	2.74	8.40	-67.0%	2.74	8.40	--	--
South Dakota	2.46	3.13	-21.0%	2.46	3.13	--	--
South Atlantic	3.45	3.98	-13.0%	3.56	4.11	2.63	2.86
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.78	4.31	-12.0%	3.80	4.34	2.87	2.82
Georgia	2.99	3.17	-5.7%	3.05	3.21	2.75	3.03
Maryland	2.85	3.88	-27.0%	--	--	2.85	3.88
North Carolina	W	W	W	3.68	4.64	W	W
South Carolina	W	W	W	3.28	3.37	W	W
Virginia	W	3.36	W	3.07	3.80	W	2.14
West Virginia	W	W	W	2.45	2.78	W	W
East South Central	2.82	2.92	-3.4%	2.83	2.92	2.80	2.94
Alabama	W	W	W	2.95	3.01	W	W
Kentucky	W	W	W	3.19	3.52	W	W
Mississippi	W	W	W	2.79	2.85	W	W
Tennessee	2.59	2.72	-4.8%	2.59	2.72	--	--
West South Central	2.63	2.82	-6.7%	2.74	2.93	2.54	2.74
Arkansas	W	W	W	3.08	3.28	W	W
Louisiana	2.68	W	W	2.72	2.91	2.45	W
Oklahoma	W	W	W	2.75	2.97	W	W
Texas	2.60	2.79	-6.8%	2.70	2.91	2.56	2.75
Mountain	2.97	W	W	2.99	3.23	2.81	W
Arizona	W	3.30	W	3.17	3.41	W	2.96
Colorado	W	3.52	W	3.12	3.39	W	4.32
Idaho	2.92	2.89	1.0%	2.92	2.89	--	--
Montana	--	W	W	--	2.26	--	W
Nevada	2.90	3.20	-9.4%	2.90	3.20	--	--
New Mexico	2.92	3.07	-4.9%	2.92	3.07	--	--
Utah	W	W	W	2.65	2.92	W	W
Wyoming	7.98	W	W	7.98	4.72	--	W
Pacific Contiguous	3.00	3.20	-6.3%	3.28	3.47	2.77	2.96
California	3.12	3.29	-5.2%	3.53	3.64	2.85	3.03
Oregon	W	W	W	2.35	2.75	W	W
Washington	W	W	W	3.41	3.48	W	W
Pacific Noncontiguous	6.61	5.37	23.0%	6.61	5.37	--	--
Alaska	6.61	5.37	23.0%	6.61	5.37	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.89	3.27	-12.0%	3.15	3.52	2.55	2.94

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 for 2015 are final. Values for 2016 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 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, December 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	11	1.31	7.1	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	11	1.31	7.1	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,595	2.83	8.7	0	--	--	0	--	--
New Jersey	68	1.79	6.7	0	--	--	0	--	--
New York	104	2.52	8.4	0	--	--	0	--	--
Pennsylvania	1,424	2.90	8.8	0	--	--	0	--	--
East North Central	5,778	3.05	9.9	6,301	0.25	4.8	0	--	--
Illinois	808	3.62	20.9	2,768	0.22	4.6	0	--	--
Indiana	2,225	2.78	8.4	133	0.28	4.7	0	--	--
Michigan	164	2.31	7.7	1,728	0.27	4.8	0	--	--
Ohio	2,466	3.23	8.8	30	0.21	4.6	0	--	--
Wisconsin	115	2.20	7.5	1,641	0.27	5.3	0	--	--
West North Central	88	3.21	9.2	7,167	0.28	4.9	1,825	0.78	9.4
Iowa	44	3.40	7.4	1,115	0.25	4.9	0	--	--
Kansas	15	3.02	13.1	1,209	0.33	5.0	0	--	--
Minnesota	0	--	--	940	0.37	6.0	0	--	--
Missouri	30	3.04	9.9	2,772	0.22	4.6	0	--	--
Nebraska	0	--	--	967	0.28	5.2	0	--	--
North Dakota	0	--	--	68	0.33	4.5	1,825	0.78	9.4
South Dakota	0	--	--	95	0.32	5.0	0	--	--
South Atlantic	7,121	2.36	10.2	858	0.32	4.9	0	--	--
Delaware	29	2.41	7.4	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,059	2.38	8.4	0	--	--	0	--	--
Georgia	681	2.36	7.6	827	0.33	4.9	0	--	--
Maryland	652	2.29	9.0	31	0.20	4.6	0	--	--
North Carolina	1,038	1.79	9.6	0	--	--	0	--	--
South Carolina	613	1.75	8.7	0	--	--	0	--	--
Virginia	588	0.95	17.2	0	--	--	0	--	--
West Virginia	2,462	3.06	11.3	0	--	--	0	--	--
East South Central	3,373	2.67	8.9	2,140	0.26	5.1	246	0.43	14.3
Alabama	343	1.38	10.2	945	0.24	5.2	0	--	--
Kentucky	2,391	3.05	9.0	744	0.30	5.2	0	--	--
Mississippi	86	0.43	5.7	83	0.20	5.5	246	0.43	14.3
Tennessee	553	2.17	8.1	367	0.23	4.6	0	--	--
West South Central	41	1.57	24.6	7,687	0.27	5.3	3,589	1.07	16.3
Arkansas	5	0.62	7.4	1,266	0.26	5.3	0	--	--
Louisiana	0	--	--	523	0.27	5.0	210	0.54	13.9
Oklahoma	36	1.72	27.3	1,012	0.25	5.0	0	--	--
Texas	0	--	--	4,885	0.28	5.3	3,379	1.10	16.5
Mountain	2,278	0.64	13.9	5,261	0.50	9.2	0	--	--
Arizona	627	0.64	10.3	543	0.57	9.0	0	--	--
Colorado	115	0.44	8.6	1,183	0.31	5.5	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	748	0.69	10.3	0	--	--
Nevada	0	--	--	44	0.24	5.3	0	--	--
New Mexico	525	0.80	22.9	583	0.72	22.3	0	--	--
Utah	1,011	0.60	12.7	84	1.10	9.1	0	--	--
Wyoming	0	--	--	2,076	0.44	7.4	0	--	--
Pacific Contiguous	54	0.45	10.1	498	0.40	9.6	0	--	--
California	54	0.45	10.1	0	--	--	0	--	--
Oregon	0	--	--	43	0.23	4.1	0	--	--
Washington	0	--	--	455	0.41	10.1	0	--	--
Pacific Noncontiguous	0	--	--	63	0.17	4.5	8	0.14	10.1
Alaska	0	--	--	0	--	--	8	0.14	10.1
Hawaii	0	--	--	63	0.17	4.5	0	--	--
U.S. Total	20,339	2.47	10.2	29,973	0.31	5.8	5,667	0.95	13.9

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:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2016 are preliminary. Values for 2015 are final. 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 Utilties by State, December 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	3,238	2.80	8.4	3,900	0.26	4.9	0	--	--
Illinois	144	3.10	10.4	427	0.21	4.5	0	--	--
Indiana	2,150	2.74	8.4	133	0.28	4.7	0	--	--
Michigan	143	2.32	7.7	1,728	0.27	4.8	0	--	--
Ohio	685	3.13	8.5	0	--	--	0	--	--
Wisconsin	115	2.20	7.5	1,612	0.27	5.3	0	--	--
West North Central	35	3.03	10.7	7,103	0.28	5.0	1,825	0.78	9.4
Iowa	0	--	--	1,050	0.26	4.9	0	--	--
Kansas	15	3.02	13.1	1,209	0.33	5.0	0	--	--
Minnesota	0	--	--	940	0.37	6.0	0	--	--
Missouri	20	3.03	8.9	2,772	0.22	4.6	0	--	--
Nebraska	0	--	--	967	0.28	5.2	0	--	--
North Dakota	0	--	--	68	0.33	4.5	1,825	0.78	9.4
South Dakota	0	--	--	95	0.32	5.0	0	--	--
South Atlantic	5,890	2.30	10.2	827	0.33	4.9	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,059	2.38	8.4	0	--	--	0	--	--
Georgia	668	2.38	7.5	827	0.33	4.9	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,038	1.79	9.6	0	--	--	0	--	--
South Carolina	610	1.76	8.7	0	--	--	0	--	--
Virginia	504	0.99	18.9	0	--	--	0	--	--
West Virginia	2,012	2.95	10.8	0	--	--	0	--	--
East South Central	3,297	2.72	8.9	2,140	0.26	5.1	0	--	--
Alabama	343	1.38	10.2	945	0.24	5.2	0	--	--
Kentucky	2,391	3.05	9.0	744	0.30	5.2	0	--	--
Mississippi	86	0.43	5.7	83	0.20	5.5	0	--	--
Tennessee	477	2.42	8.2	367	0.23	4.6	0	--	--
West South Central	0	--	--	4,200	0.26	5.2	891	1.35	18.4
Arkansas	0	--	--	1,068	0.26	5.3	0	--	--
Louisiana	0	--	--	277	0.25	5.1	210	0.54	13.9
Oklahoma	0	--	--	943	0.25	5.0	0	--	--
Texas	0	--	--	1,911	0.27	5.3	681	1.64	20.0
Mountain	2,278	0.64	13.9	4,469	0.47	9.0	0	--	--
Arizona	627	0.64	10.3	543	0.57	9.0	0	--	--
Colorado	115	0.44	8.6	1,183	0.31	5.5	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	525	0.80	22.9	583	0.72	22.3	0	--	--
Utah	1,011	0.60	12.7	84	1.10	9.1	0	--	--
Wyoming	0	--	--	2,076	0.44	7.4	0	--	--
Pacific Contiguous	0	--	--	43	0.23	4.1	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	43	0.23	4.1	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	8	0.14	10.1
Alaska	0	--	--	0	--	--	8	0.14	10.1
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	14,738	2.27	10.0	22,680	0.31	5.8	2,724	0.96	12.2

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 2016 are preliminary. Values for 2015 are final. 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, December 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	9	1.42	6.8	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	9	1.42	6.8	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,579	2.84	8.7	0	--	--	0	--	--
New Jersey	68	1.79	6.7	0	--	--	0	--	--
New York	87	2.72	8.4	0	--	--	0	--	--
Pennsylvania	1,424	2.90	8.8	0	--	--	0	--	--
East North Central	2,441	3.36	12.0	2,308	0.21	4.5	0	--	--
Illinois	568	3.77	26.9	2,277	0.21	4.5	0	--	--
Indiana	74	3.82	9.3	0	--	--	0	--	--
Michigan	18	2.48	7.6	0	--	--	0	--	--
Ohio	1,781	3.26	9.0	30	0.21	4.6	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	1,168	2.71	10.6	31	0.20	4.6	0	--	--
Delaware	29	2.41	7.4	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	631	2.31	8.7	31	0.20	4.6	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	58	0.79	9.8	0	--	--	0	--	--
West Virginia	450	3.61	13.8	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	246	0.43	14.3
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	246	0.43	14.3
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	36	1.72	27.3	3,487	0.29	5.3	2,698	0.98	15.7
Arkansas	0	--	--	198	0.28	5.6	0	--	--
Louisiana	0	--	--	246	0.30	4.9	0	--	--
Oklahoma	36	1.72	27.3	70	0.25	4.6	0	--	--
Texas	0	--	--	2,974	0.29	5.3	2,698	0.98	15.7
Mountain	0	--	--	792	0.66	10.0	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	748	0.69	10.3	0	--	--
Nevada	0	--	--	44	0.24	5.3	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	455	0.41	10.1	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	455	0.41	10.1	0	--	--
Pacific Noncontiguous	0	--	--	63	0.17	4.5	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	63	0.17	4.5	0	--	--
U.S. Total	5,234	3.03	10.7	7,135	0.31	5.8	2,943	0.95	15.6

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 2016 are preliminary. Values for 2015 are final. 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, December 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	9	3.05	12.0	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	9	3.05	12.0	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	9	3.05	12.0	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 2016 are preliminary. Values for 2015 are final. 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, December 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	2	0.79	8.3	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	2	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	16	1.44	8.7	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	16	1.44	8.7	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	99	3.60	8.4	93	0.63	6.1	0	--	--
Illinois	96	3.70	8.5	64	0.80	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	3	0.52	6.7	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	29	0.27	5.2	0	--	--
West North Central	44	3.40	7.4	64	0.18	4.4	0	--	--
Iowa	44	3.40	7.4	64	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	63	1.07	11.9	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	13	1.13	10.0	0	--	--	0	--	--
Maryland	21	1.70	21.4	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	4	0.75	6.5	0	--	--	0	--	--
Virginia	25	0.65	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	76	0.80	7.4	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	76	0.80	7.4	0	--	--	0	--	--
West South Central	5	0.62	7.4	0	--	--	0	--	--
Arkansas	5	0.62	7.4	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	54	0.45	10.1	0	--	--	0	--	--
California	54	0.45	10.1	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	358	1.83	8.9	157	0.45	5.4	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 2016 are preliminary. Values for 2015 are final. 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 - December 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	1,404,096	1,360,752	986,508	7,637	3,758,992
2016	1,407,394	1,359,617	936,269	7,499	3,710,779
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	137,765	111,620	79,609	673	329,666
February	123,838	105,482	76,749	699	306,768
March	117,167	107,796	79,709	679	305,352
April	90,199	104,168	80,489	620	275,475
May	95,161	109,406	82,916	609	288,091
June	120,300	119,270	86,218	609	326,397
July	146,038	128,504	87,747	648	362,938
August	144,515	128,519	88,373	625	362,032
Sept	125,417	122,195	84,730	615	332,958
October	99,349	112,821	83,249	636	296,055
November	92,678	104,140	78,495	604	275,917
December	111,670	106,829	78,224	619	297,344
Year 2016					
January	130,764	109,870	75,892	660	317,186
February	115,820	102,877	73,909	647	293,253
March	100,123	105,180	75,907	610	281,819
April	88,107	101,464	75,801	595	265,967
May	93,981	107,900	78,246	582	280,708
June	124,888	119,673	80,234	632	325,427
July	153,976	129,265	83,369	648	367,258
August	155,851	134,078	85,061	632	375,622
Sept	129,111	122,961	79,719	637	332,428
October	101,137	112,346	77,960	613	292,056
November	92,797	104,454	75,048	592	272,891
December	120,840	109,548	75,124	652	306,163
Year to Date					
2014	1,407,208	1,352,158	997,576	7,758	3,764,700
2015	1,404,096	1,360,752	986,508	7,637	3,758,992
2016	1,407,394	1,359,617	936,269	7,499	3,710,779
Rolling 12 Months Ending in December					
2015	1,404,096	1,360,752	986,508	7,637	3,758,992
2016	1,407,394	1,359,617	936,269	7,499	3,710,779

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 2015 and prior years are final. Values for 2016 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 - December 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	177,624	144,781	68,166	771	391,341
2016	176,585	140,937	63,201	711	381,435
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	16,665	11,506	5,310	70	33,551
February	15,215	11,203	5,277	73	31,768
March	14,450	11,460	5,441	69	31,419
April	11,379	10,803	5,323	60	27,566
May	12,300	11,456	5,589	60	29,405
June	15,537	12,992	6,133	62	34,725
July	18,904	14,229	6,538	67	39,738
August	18,659	14,065	6,493	63	39,280
Sept	16,347	13,420	6,107	63	35,937
October	12,633	12,100	5,728	63	30,524
November	11,775	10,722	5,185	58	27,740
December	13,759	10,825	5,043	61	29,688
Year 2016					
January	15,666	11,005	4,860	62	31,594
February	14,060	10,491	4,720	61	29,332
March	12,585	10,682	4,908	58	28,233
April	10,955	10,275	4,849	56	26,136
May	12,023	11,055	5,134	53	28,266
June	15,882	12,677	5,639	61	34,259
July	19,522	13,732	6,025	62	39,341
August	20,104	14,355	6,152	63	40,674
Sept	16,611	13,157	5,697	63	35,528
October	12,599	11,759	5,236	58	29,653
November	11,828	10,701	4,995	54	27,577
December	14,750	11,047	4,984	61	30,843
Year to Date					
2014	176,178	145,253	70,855	810	393,096
2015	177,624	144,781	68,166	771	391,341
2016	176,585	140,937	63,201	711	381,435
Rolling 12 Months Ending in December					
2015	177,624	144,781	68,166	771	391,341
2016	176,585	140,937	63,201	711	381,435

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 2015 and prior years are final. Values for 2016 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 - December 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	12.65	10.64	6.91	10.09	10.41
2016	12.55	10.37	6.75	9.48	10.28
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	10.31	6.67	10.45	10.18
February	12.29	10.62	6.88	10.49	10.36
March	12.33	10.63	6.83	10.12	10.29
April	12.62	10.37	6.61	9.76	10.01
May	12.93	10.47	6.74	9.87	10.21
June	12.92	10.89	7.11	10.15	10.64
July	12.94	11.07	7.45	10.34	10.95
August	12.91	10.94	7.35	10.14	10.85
Sept	13.03	10.98	7.21	10.29	10.79
October	12.72	10.73	6.88	9.91	10.31
November	12.71	10.30	6.61	9.63	10.05
December	12.32	10.13	6.45	9.81	9.98
Year 2016					
January	11.98	10.02	6.40	9.41	9.96
February	12.14	10.20	6.39	9.49	10.00
March	12.57	10.16	6.47	9.43	10.02
April	12.43	10.13	6.40	9.41	9.83
May	12.79	10.25	6.56	9.13	10.07
June	12.72	10.59	7.03	9.59	10.53
July	12.68	10.62	7.23	9.63	10.71
August	12.90	10.71	7.23	9.89	10.83
Sept	12.87	10.70	7.15	9.83	10.69
October	12.46	10.47	6.72	9.43	10.15
November	12.75	10.24	6.66	9.04	10.11
December	12.21	10.08	6.63	9.40	10.07
Year to Date					
2014	12.52	10.74	7.10	10.45	10.44
2015	12.65	10.64	6.91	10.09	10.41
2016	12.55	10.37	6.75	9.48	10.28
Rolling 12 Months Ending in December					
2015	12.65	10.64	6.91	10.09	10.41
2016	12.55	10.37	6.75	9.48	10.28

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 2015 and prior years are final. Values for 2016 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 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, December 2016 and 2015 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	4,061	3,815	4,227	4,261	1,372	1,485	53	47	9,713	9,608
Connecticut	1,097	1,010	1,032	1,014	252	272	16	16	2,398	2,311
Maine	443	431	349	362	229	264	0	0	1,021	1,058
Massachusetts	1,697	1,584	2,029	2,079	547	615	34	29	4,307	4,308
New Hampshire	379	361	355	346	152	153	0	0	887	860
Rhode Island	247	251	293	303	62	65	2	2	605	621
Vermont	197	178	169	156	129	116	0	0	494	451
Middle Atlantic	11,350	10,410	12,792	12,627	5,895	5,752	317	322	30,355	29,111
New Jersey	2,290	2,112	3,091	3,009	564	538	25	25	5,970	5,684
New York	4,117	3,979	6,116	6,131	1,406	1,446	232	229	11,871	11,785
Pennsylvania	4,943	4,319	3,585	3,487	3,925	3,769	61	67	12,514	11,642
East North Central	17,556	15,420	15,374	14,542	14,834	15,535	63	50	47,827	45,546
Illinois	4,138	3,721	4,325	4,042	3,555	3,316	56	44	12,073	11,123
Indiana	3,173	2,663	1,942	1,848	3,203	3,842	2	2	8,320	8,355
Michigan	3,105	2,904	3,193	3,112	2,335	2,497	0	0	8,633	8,513
Ohio	5,014	4,183	3,890	3,651	3,850	3,951	4	4	12,758	11,788
Wisconsin	2,127	1,949	2,024	1,890	1,892	1,928	0	0	6,042	5,767
West North Central	10,079	9,138	8,697	8,222	6,791	7,223	5	4	25,572	24,587
Iowa	1,427	1,347	1,094	1,017	1,802	1,663	0	0	4,323	4,027
Kansas	1,147	1,032	1,245	1,166	875	905	0	0	3,268	3,103
Minnesota	2,135	2,047	1,991	1,918	1,653	1,696	3	2	5,781	5,663
Missouri	3,301	2,798	2,514	2,385	909	1,318	2	2	6,726	6,503
Nebraska	1,001	939	832	763	819	810	0	0	2,652	2,512
North Dakota	576	520	600	573	517	609	0	0	1,694	1,703
South Dakota	491	456	421	399	216	221	0	0	1,128	1,076
South Atlantic	29,480	26,709	24,697	24,125	10,787	11,363	108	92	65,072	62,289
Delaware	392	325	337	255	167	240	0	0	896	820
District of Columbia	193	200	659	611	14	23	23	16	889	850
Florida	8,499	8,763	7,451	7,656	1,322	1,408	8	8	17,280	17,835
Georgia	4,531	3,981	3,588	3,544	2,455	2,520	15	14	10,589	10,059
Maryland	2,535	2,032	2,427	2,296	309	317	46	37	5,317	4,683
North Carolina	5,228	4,641	3,778	3,789	2,131	2,298	0	1	11,137	10,728
South Carolina	2,509	2,244	1,597	1,652	2,061	2,144	0	0	6,168	6,040
Virginia	4,358	3,539	4,213	3,729	1,281	1,392	15	16	9,868	8,675
West Virginia	1,235	983	647	594	1,048	1,021	0	0	2,930	2,598
East South Central	9,810	8,483	6,962	6,934	7,926	7,900	0	0	24,698	23,318
Alabama	2,589	2,275	1,738	1,754	2,691	2,618	0	0	7,017	6,647
Kentucky	2,422	1,978	1,553	1,503	2,251	2,238	0	0	6,227	5,719
Mississippi	1,378	1,249	1,027	1,042	1,351	1,298	0	0	3,756	3,589
Tennessee	3,421	2,981	2,645	2,635	1,633	1,747	0	0	7,698	7,363
West South Central	16,064	15,166	14,920	14,326	13,899	14,786	16	15	44,898	44,293
Arkansas	1,415	1,307	906	878	1,264	1,247	0	0	3,585	3,432
Louisiana	2,160	2,048	1,874	1,844	2,522	3,009	1	1	6,557	6,902
Oklahoma	1,993	1,747	1,647	1,519	1,411	1,479	0	0	5,051	4,745
Texas	10,497	10,065	10,492	10,085	8,703	9,050	14	14	29,706	29,214
Mountain	8,192	8,300	7,717	7,586	6,552	6,702	12	12	22,474	22,599
Arizona	2,260	2,533	2,143	2,175	1,121	1,246	0	0	5,524	5,954
Colorado	1,709	1,685	1,732	1,685	1,282	1,234	6	6	4,729	4,611
Idaho	1,016	937	585	563	499	476	0	0	2,100	1,976
Montana	531	536	436	423	354	364	0	0	1,321	1,324
Nevada	932	886	820	750	1,018	1,095	1	1	2,771	2,731
New Mexico	586	592	711	694	615	631	0	0	1,911	1,917
Utah	838	835	953	957	798	796	5	5	2,593	2,593
Wyoming	320	296	337	338	866	860	0	0	1,524	1,495
Pacific Contiguous	13,791	13,781	13,658	13,699	6,644	7,053	79	78	34,172	34,612
California	7,322	7,801	9,469	9,726	3,703	3,946	76	75	20,570	21,549
Oregon	2,297	2,084	1,488	1,336	952	985	2	2	4,739	4,407
Washington	4,172	3,896	2,701	2,637	1,989	2,121	1	1	8,863	8,655
Pacific Noncontiguous	457	448	504	506	423	426	0	0	1,383	1,381
Alaska	225	221	252	249	120	118	0	0	596	588
Hawaii	233	228	251	257	303	308	0	0	787	793
U.S. Total	120,840	111,670	109,548	106,829	75,124	78,224	652	619	306,163	297,344

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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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 December 2016 and 2015 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	46,463	47,482	52,346	53,383	17,066	18,733	556	572	116,431	120,170
Connecticut	12,680	12,893	12,725	12,959	3,233	3,432	183	193	28,821	29,476
Maine	4,582	4,662	3,988	4,018	2,838	3,208	0	0	11,408	11,888
Massachusetts	19,636	20,175	25,504	26,200	6,828	7,892	347	353	52,315	54,621
New Hampshire	4,432	4,527	4,462	4,491	1,987	1,981	0	0	10,881	10,999
Rhode Island	3,082	3,136	3,651	3,705	765	799	27	26	7,525	7,665
Vermont	2,050	2,089	2,015	2,011	1,416	1,422	0	0	5,482	5,521
Middle Atlantic	133,406	134,574	157,974	159,474	70,804	72,804	3,845	3,896	366,029	370,747
New Jersey	29,123	29,142	38,410	38,723	6,934	7,320	302	304	74,769	75,490
New York	50,758	51,013	76,108	77,006	17,057	18,079	2,756	2,816	146,679	148,914
Pennsylvania	53,525	54,419	43,455	43,745	46,814	47,404	787	776	144,582	146,344
East North Central	187,355	183,153	185,951	183,420	184,688	196,364	585	589	558,579	563,527
Illinois	46,018	44,646	50,948	50,320	42,134	43,131	519	524	139,619	138,620
Indiana	32,659	32,442	24,264	24,022	41,441	48,030	21	21	98,386	104,515
Michigan	34,402	33,358	39,134	38,441	29,931	30,677	4	4	103,472	102,480
Ohio	52,532	51,493	47,752	47,124	47,312	50,557	41	40	147,637	149,213
Wisconsin	21,744	21,215	23,852	23,514	23,869	23,970	0	0	69,466	68,699
West North Central	102,255	101,620	102,641	101,711	84,565	91,430	46	45	289,507	294,806
Iowa	13,844	13,786	12,261	12,072	21,631	21,289	0	0	47,736	47,147
Kansas	13,505	13,242	15,713	15,380	10,662	11,227	0	0	39,880	39,849
Minnesota	21,430	21,714	23,219	23,388	19,963	21,453	24	24	64,636	66,579
Missouri	34,462	33,912	30,931	30,535	11,933	17,036	21	21	77,348	81,504
Nebraska	9,770	9,532	9,590	9,308	10,479	10,655	0	0	29,839	29,495
North Dakota	4,661	4,863	6,107	6,279	7,208	6,988	0	0	17,977	18,129
South Dakota	4,583	4,571	4,819	4,749	2,688	2,782	0	0	12,090	12,102
South Atlantic	358,597	359,258	312,534	311,709	137,383	143,229	1,326	1,341	809,839	815,537
Delaware	4,741	4,849	4,237	4,219	2,078	2,430	0	0	11,056	11,498
District of Columbia	2,502	2,498	8,369	8,222	192	238	331	334	11,394	11,291
Florida	121,268	122,759	94,833	95,847	16,372	16,897	95	95	232,568	235,599
Georgia	57,660	56,422	47,440	47,151	31,515	32,134	171	171	136,786	135,878
Maryland	27,341	27,403	29,675	29,959	3,775	3,883	540	536	61,331	61,782
North Carolina	58,086	57,902	48,583	48,236	26,825	27,701	6	9	133,501	133,848
South Carolina	30,641	30,059	21,980	21,927	26,603	29,342	0	0	79,224	81,328
Virginia	44,987	45,928	49,593	48,347	17,148	17,537	183	196	111,910	112,009
West Virginia	11,372	11,437	7,824	7,801	12,874	13,065	0	0	32,070	32,303
East South Central	119,192	118,305	91,795	92,400	97,119	102,502	0	0	308,106	313,208
Alabama	32,189	31,909	23,145	23,438	32,558	33,499	0	0	87,893	88,846
Kentucky	26,426	26,168	19,461	19,589	27,268	30,281	0	0	73,154	76,039
Mississippi	18,623	18,561	13,977	14,392	16,476	15,739	0	0	49,076	48,692
Tennessee	41,954	41,667	35,212	34,982	20,817	22,983	0	0	97,983	99,632
West South Central	217,018	218,086	194,590	194,164	170,787	179,373	194	192	582,589	591,815
Arkansas	17,807	18,273	12,147	12,153	15,937	16,038	0	0	45,892	46,465
Louisiana	30,713	31,545	24,949	24,996	33,146	35,123	12	12	88,821	91,676
Oklahoma	23,109	22,616	20,361	20,691	16,992	18,029	0	0	60,462	61,336
Texas	145,388	145,652	137,134	136,324	104,711	110,182	182	180	387,414	392,337
Mountain	97,033	95,206	95,045	94,880	83,031	84,740	135	134	275,244	274,962
Arizona	33,755	33,167	29,572	29,284	14,720	14,892	6	6	78,052	77,349
Colorado	18,898	18,385	20,426	20,408	15,412	15,259	65	64	54,801	54,116
Idaho	8,146	8,055	6,234	6,264	8,554	8,740	0	0	22,934	23,059
Montana	4,813	4,825	4,906	4,894	4,239	4,488	0	0	13,958	14,207
Nevada	12,676	12,339	9,882	9,614	13,462	14,059	8	8	36,029	36,020
New Mexico	6,719	6,642	8,884	8,877	7,458	7,575	0	0	23,060	23,094
Utah	9,282	9,117	11,403	11,615	9,118	9,405	57	56	29,860	30,192
Wyoming	2,744	2,677	3,738	3,925	10,067	10,323	0	0	16,550	16,925
Pacific Contiguous	141,451	141,727	160,868	163,672	85,745	92,284	811	867	388,875	398,550
California	88,400	89,386	115,361	118,384	49,894	52,562	781	838	254,436	261,170
Oregon	18,689	18,269	16,130	16,021	11,568	12,950	24	24	46,410	47,264
Washington	34,362	34,072	29,378	29,267	24,283	26,772	6	5	88,029	90,116
Pacific Noncontiguous	4,624	4,686	5,873	5,938	5,081	5,047	0	0	15,579	15,671
Alaska	2,013	2,044	2,762	2,763	1,367	1,352	0	0	6,142	6,159
Hawaii	2,612	2,641	3,111	3,174	3,714	3,696	0	0	9,437	9,511
U.S. Total	1,407,394	1,404,096	1,359,617	1,360,752	936,269	986,508	7,499	7,637	3,710,779	3,758,992

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	749	717	619	634	167	178	4	4	1,540	1,534
Connecticut	209	197	158	155	33	34	2	2	401	386
Maine	70	64	43	43	21	23	0	0	134	130
Massachusetts	320	311	303	317	72	81	2	2	698	711
New Hampshire	71	65	52	51	19	19	0	0	142	135
Rhode Island	45	50	40	46	9	9	0	0	94	105
Vermont	34	31	24	23	13	12	0	0	71	66
Middle Atlantic	1,738	1,626	1,527	1,544	404	394	34	36	3,703	3,599
New Jersey	351	328	362	360	55	53	2	2	771	743
New York	707	696	841	853	82	83	28	29	1,658	1,661
Pennsylvania	680	601	323	331	267	258	5	5	1,275	1,195
East North Central	2,219	1,963	1,519	1,405	1,025	1,053	4	4	4,767	4,424
Illinois	484	440	372	345	216	213	4	3	1,075	1,000
Indiana	362	305	196	177	242	256	0	0	800	739
Michigan	474	421	350	322	166	170	0	0	991	913
Ohio	607	533	385	363	261	277	0	0	1,253	1,173
Wisconsin	292	264	215	198	140	136	0	0	647	599
West North Central	1,068	982	769	719	440	459	0	0	2,278	2,160
Iowa	152	140	90	80	92	83	0	0	333	303
Kansas	139	127	121	117	63	66	0	0	323	310
Minnesota	256	237	184	170	115	113	0	0	554	520
Missouri	318	296	213	206	60	78	0	0	592	580
Nebraska	97	89	71	63	56	55	0	0	224	208
North Dakota	53	45	52	49	38	47	0	0	144	142
South Dakota	53	48	39	35	16	16	0	0	107	99
South Atlantic	3,274	3,032	2,248	2,231	682	718	8	7	6,213	5,989
Delaware	51	44	33	27	13	18	0	0	96	89
District of Columbia	24	27	78	76	1	2	2	2	105	107
Florida	949	994	675	710	104	110	1	1	1,728	1,815
Georgia	450	409	328	327	133	127	1	1	912	864
Maryland	355	296	273	247	24	25	4	3	656	571
North Carolina	538	502	314	327	128	152	0	0	980	981
South Carolina	302	270	164	164	126	129	0	0	591	563
Virginia	467	388	324	300	84	92	1	1	876	781
West Virginia	139	103	60	52	70	62	0	0	268	217
East South Central	1,072	913	727	697	486	443	0	0	2,285	2,053
Alabama	311	254	201	183	173	142	0	0	685	578
Kentucky	251	208	146	141	128	121	0	0	525	470
Mississippi	147	139	104	108	85	79	0	0	336	326
Tennessee	364	312	276	265	100	101	0	0	740	678
West South Central	1,656	1,590	1,158	1,130	751	770	1	1	3,566	3,491
Arkansas	134	124	73	72	75	72	0	0	282	269
Louisiana	197	180	167	156	140	149	0	0	504	485
Oklahoma	185	159	120	106	72	71	0	0	377	336
Texas	1,140	1,127	798	796	465	478	1	1	2,404	2,401
Mountain	909	908	698	682	392	390	1	1	2,000	1,981
Arizona	255	271	206	206	65	67	0	0	527	545
Colorado	201	195	163	159	93	89	1	1	459	443
Idaho	96	90	44	42	28	27	0	0	169	158
Montana	57	55	44	41	17	18	0	0	117	114
Nevada	105	110	62	66	47	56	0	0	214	231
New Mexico	71	67	70	66	37	33	0	0	178	166
Utah	89	88	77	74	45	45	0	0	212	207
Wyoming	34	31	31	29	59	56	0	0	124	116
Pacific Contiguous	1,954	1,924	1,673	1,677	552	559	7	7	4,186	4,167
California	1,329	1,349	1,316	1,336	409	415	7	7	3,062	3,106
Oregon	243	217	132	116	55	56	0	0	431	388
Washington	382	359	224	225	87	88	0	0	694	672
Pacific Noncontiguous	110	103	110	106	85	80	0	0	306	289
Alaska	46	42	46	42	19	15	0	0	111	99
Hawaii	64	61	65	64	66	65	0	0	195	190
U.S. Total	14,750	13,759	11,047	10,825	4,984	5,043	61	61	30,843	29,688

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	8,759	9,227	7,910	8,255	2,063	2,312	46	58	18,778	19,852
Connecticut	2,536	2,699	2,001	2,070	421	445	19	25	4,978	5,239
Maine	724	728	485	501	256	290	0	0	1,465	1,519
Massachusetts	3,753	4,000	3,948	4,136	895	1,069	21	27	8,617	9,232
New Hampshire	817	838	644	672	245	252	0	0	1,706	1,762
Rhode Island	574	605	539	584	104	110	5	5	1,222	1,304
Vermont	355	357	292	292	142	146	0	0	790	795
Middle Atlantic	21,028	21,487	19,802	20,937	4,974	5,331	419	457	46,223	48,212
New Jersey	4,587	4,607	4,769	4,952	703	779	26	31	10,086	10,370
New York	8,929	9,456	11,013	11,786	1,031	1,141	332	365	21,305	22,747
Pennsylvania	7,511	7,423	4,020	4,199	3,240	3,412	60	61	14,832	15,095
East North Central	24,189	23,730	18,326	18,252	12,753	13,690	41	41	55,309	55,713
Illinois	5,627	5,581	4,458	4,540	2,684	2,875	35	36	12,804	13,033
Indiana	3,721	3,753	2,365	2,349	2,908	3,295	2	2	8,996	9,399
Michigan	5,264	4,811	4,179	4,057	2,106	2,155	0	0	11,549	11,023
Ohio	6,450	6,591	4,713	4,743	3,208	3,549	3	3	14,374	14,886
Wisconsin	3,127	2,994	2,611	2,562	1,846	1,816	0	0	7,585	7,372
West North Central	11,991	11,654	9,720	9,431	5,978	6,289	4	4	27,693	27,379
Iowa	1,696	1,604	1,147	1,077	1,329	1,255	0	0	4,172	3,936
Kansas	1,749	1,635	1,609	1,553	789	854	0	0	4,146	4,042
Minnesota	2,729	2,631	2,293	2,207	1,452	1,506	2	2	6,477	6,346
Missouri	3,754	3,800	2,804	2,798	813	1,096	2	2	7,373	7,696
Nebraska	1,062	1,011	852	807	800	809	0	0	2,714	2,627
North Dakota	477	468	558	555	592	564	0	0	1,628	1,586
South Dakota	524	507	456	435	203	205	0	0	1,183	1,146
South Atlantic	41,756	42,175	28,993	29,576	8,792	9,421	105	109	79,645	81,280
Delaware	638	651	429	433	166	201	0	0	1,233	1,285
District of Columbia	322	324	982	987	17	21	31	30	1,352	1,362
Florida	13,628	14,217	8,641	9,106	1,279	1,388	8	9	23,555	24,719
Georgia	6,579	6,511	4,568	4,663	1,778	1,887	9	9	12,934	13,070
Maryland	3,890	3,787	3,260	3,296	296	331	42	45	7,488	7,458
North Carolina	6,472	6,532	4,201	4,210	1,670	1,804	1	1	12,344	12,547
South Carolina	3,812	3,778	2,228	2,240	1,596	1,774	0	0	7,637	7,792
Virginia	5,139	5,221	3,953	3,970	1,143	1,219	14	16	10,249	10,425
West Virginia	1,276	1,153	731	672	846	796	0	0	2,852	2,621
East South Central	12,891	12,796	9,272	9,458	5,664	6,133	0	0	27,827	28,387
Alabama	3,875	3,732	2,574	2,539	1,981	2,021	0	0	8,429	8,292
Kentucky	2,719	2,680	1,824	1,848	1,497	1,661	0	0	6,041	6,189
Mississippi	1,964	2,092	1,343	1,518	974	1,033	0	0	4,281	4,643
Tennessee	4,333	4,292	3,531	3,553	1,212	1,418	0	0	9,076	9,263
West South Central	22,913	23,870	15,196	15,880	8,905	10,025	11	11	47,025	49,786
Arkansas	1,762	1,794	988	1,011	946	999	0	0	3,696	3,804
Louisiana	2,797	2,944	2,117	2,166	1,666	1,901	1	1	6,581	7,011
Oklahoma	2,326	2,294	1,520	1,588	824	964	0	0	4,670	4,846
Texas	16,028	16,838	10,571	11,115	5,470	6,161	10	10	32,078	34,124
Mountain	11,334	11,264	9,087	9,212	5,253	5,583	13	13	25,687	26,073
Arizona	4,123	4,023	3,101	3,043	893	933	1	1	8,118	7,999
Colorado	2,271	2,228	1,974	2,017	1,099	1,129	6	6	5,350	5,380
Idaho	815	800	486	489	563	576	0	0	1,864	1,865
Montana	531	525	499	501	211	239	0	0	1,241	1,264
Nevada	1,447	1,574	790	889	789	949	1	1	3,027	3,413
New Mexico	811	828	875	915	427	480	0	0	2,114	2,223
Utah	1,028	992	1,008	1,002	575	580	6	6	2,617	2,579
Wyoming	307	294	353	358	696	698	0	0	1,356	1,349
Pacific Contiguous	20,591	20,234	21,365	22,443	7,837	8,332	73	78	49,866	51,088
California	15,383	15,188	17,477	18,627	6,024	6,394	70	75	38,955	40,285
Oregon	1,986	1,948	1,430	1,410	712	773	2	2	4,131	4,134
Washington	3,221	3,098	2,458	2,406	1,100	1,165	1	0	6,781	6,669
Pacific Noncontiguous	1,132	1,187	1,269	1,337	981	1,048	0	0	3,383	3,572
Alaska	415	405	502	482	213	196	0	0	1,130	1,083
Hawaii	717	782	767	855	769	852	0	0	2,253	2,489
U.S. Total	176,585	177,624	140,937	144,781	63,201	68,166	711	771	381,435	391,341

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Notes: - See Glossary for definitions. - Values for 2015 are final. Values for 2016 are preliminary estimates based on a cutoff model sample.
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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.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, December 2016 and 2015 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	18.44	18.80	14.65	14.89	12.19	11.97	8.20	9.17	15.85	15.96
Connecticut	19.02	19.47	15.32	15.24	12.92	12.39	9.85	10.57	16.73	16.73
Maine	15.68	14.91	12.20	11.84	9.39	8.76	--	--	13.08	12.32
Massachusetts	18.87	19.63	14.91	15.26	13.24	13.09	6.68	7.70	16.19	16.51
New Hampshire	18.68	18.01	14.57	14.64	12.65	12.77	--	--	16.00	15.72
Rhode Island	18.39	19.88	13.67	15.27	13.67	13.30	18.62	18.41	15.62	16.93
Vermont	17.22	17.19	14.32	14.56	10.01	10.56	--	--	14.35	14.57
Middle Atlantic	15.32	15.62	11.93	12.23	6.85	6.84	10.84	11.19	12.20	12.36
New Jersey	15.32	15.55	11.73	11.96	9.80	9.77	8.58	8.95	12.91	13.07
New York	17.18	17.50	13.75	13.91	5.82	5.72	11.95	12.58	13.97	14.09
Pennsylvania	13.76	13.92	9.01	9.49	6.80	6.85	7.52	7.28	10.19	10.27
East North Central	12.64	12.73	9.88	9.66	6.91	6.78	7.09	7.16	9.97	9.71
Illinois	11.69	11.82	8.60	8.53	6.08	6.41	6.89	7.00	8.91	8.99
Indiana	11.40	11.46	10.12	9.58	7.55	6.67	10.68	9.40	9.62	8.84
Michigan	15.28	14.51	10.97	10.34	7.10	6.82	12.10	11.64	11.47	10.73
Ohio	12.11	12.74	9.89	9.95	6.79	7.01	7.68	7.52	9.82	9.95
Wisconsin	13.74	13.54	10.63	10.50	7.38	7.08	15.50	16.67	10.71	10.38
West North Central	10.60	10.75	8.85	8.74	6.48	6.35	8.40	8.06	8.91	8.79
Iowa	10.66	10.38	8.19	7.84	5.08	4.99	--	--	7.71	7.51
Kansas	12.13	12.33	9.72	10.00	7.17	7.35	--	--	9.89	10.00
Minnesota	11.97	11.57	9.22	8.85	6.96	6.66	9.69	8.94	9.59	9.18
Missouri	9.63	10.59	8.48	8.62	6.65	5.90	6.78	7.07	8.80	8.91
Nebraska	9.73	9.53	8.49	8.27	6.85	6.82	--	--	8.45	8.27
North Dakota	9.21	8.73	8.74	8.53	7.37	7.77	--	--	8.48	8.32
South Dakota	10.71	10.42	9.24	8.83	7.36	7.17	--	--	9.52	9.16
South Atlantic	11.11	11.35	9.10	9.25	6.32	6.32	7.78	7.97	9.55	9.62
Delaware	12.94	13.40	9.67	10.63	7.55	7.67	--	--	10.71	10.86
District of Columbia	12.46	13.36	11.82	12.49	8.73	9.10	9.87	11.12	11.86	12.58
Florida	11.17	11.34	9.05	9.28	7.83	7.83	8.18	8.91	10.00	10.18
Georgia	9.92	10.28	9.15	9.24	5.43	5.04	4.59	4.13	8.61	8.59
Maryland	14.01	14.59	11.25	10.74	7.74	7.93	7.66	7.95	12.33	12.20
North Carolina	10.29	10.81	8.32	8.64	6.00	6.61	8.88	8.17	8.80	9.14
South Carolina	12.02	12.05	10.25	9.92	6.09	6.00	--	--	9.58	9.32
Virginia	10.72	10.96	7.69	8.05	6.56	6.64	7.83	7.84	8.88	9.01
West Virginia	11.22	10.43	9.27	8.78	6.66	6.12	--	--	9.16	8.36
East South Central	10.93	10.76	10.44	10.05	6.13	5.61	--	--	9.25	8.80
Alabama	12.00	11.16	11.58	10.42	6.42	5.41	--	--	9.76	8.70
Kentucky	10.36	10.51	9.39	9.40	5.69	5.39	--	--	8.43	8.22
Mississippi	10.68	11.14	10.08	10.37	6.29	6.09	--	--	8.93	9.09
Tennessee	10.63	10.45	10.44	10.07	6.14	5.81	--	--	9.61	9.21
West South Central	10.31	10.48	7.76	7.89	5.40	5.21	5.84	5.58	7.94	7.88
Arkansas	9.45	9.49	8.01	8.22	5.96	5.81	11.95	9.58	7.86	7.82
Louisiana	9.12	8.81	8.92	8.44	5.54	4.95	9.22	7.84	7.69	7.03
Oklahoma	9.30	9.10	7.29	7.00	5.07	4.77	--	--	7.46	7.08
Texas	10.86	11.19	7.60	7.89	5.34	5.29	5.59	5.42	8.09	8.22
Mountain	11.10	10.94	9.04	8.99	5.98	5.82	9.04	9.69	8.90	8.76
Arizona	11.30	10.70	9.62	9.49	5.83	5.39	8.30	8.70	9.54	9.15
Colorado	11.78	11.60	9.43	9.41	7.29	7.17	10.17	9.68	9.70	9.61
Idaho	9.49	9.60	7.50	7.39	5.69	5.66	--	--	8.03	8.02
Montana	10.64	10.35	10.03	9.76	4.75	4.86	--	--	8.86	8.65
Nevada	11.26	12.40	7.59	8.77	4.61	5.08	7.39	8.29	7.73	8.47
New Mexico	12.08	11.31	9.86	9.46	6.01	5.23	--	--	9.30	8.64
Utah	10.68	10.50	8.11	7.74	5.63	5.64	7.97	10.01	8.18	7.99
Wyoming	10.71	10.54	9.13	8.51	6.85	6.50	--	--	8.17	7.76
Pacific Contiguous	14.17	13.96	12.25	12.24	8.31	7.92	9.29	9.33	12.25	12.04
California	18.15	17.29	13.90	13.73	11.05	10.51	9.29	9.34	14.88	14.41
Oregon	10.59	10.39	8.89	8.66	5.81	5.69	9.21	9.09	9.10	8.82
Washington	9.16	9.22	8.30	8.53	4.39	4.13	8.81	8.76	7.83	7.76
Pacific Noncontiguous	24.13	23.04	21.92	20.95	20.16	18.79	--	--	22.11	20.96
Alaska	20.44	19.11	18.09	16.81	16.31	12.79	--	--	18.62	16.86
Hawaii	27.68	26.85	25.77	24.96	21.68	21.08	--	--	24.76	24.00
U.S. Total	12.21	12.32	10.08	10.13	6.63	6.45	9.40	9.81	10.07	9.98

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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 December 2016 and 2015 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD	December 2016 YTD	December 2015 YTD
New England	18.85	19.43	15.11	15.46	12.09	12.34	8.25	10.07	16.13	16.52
Connecticut	20.00	20.94	15.72	15.97	13.02	12.95	10.62	13.18	17.27	17.77
Maine	15.80	15.61	12.16	12.47	9.03	9.05	--	--	12.84	12.78
Massachusetts	19.11	19.83	15.48	15.79	13.11	13.54	6.18	7.76	16.47	16.90
New Hampshire	18.43	18.50	14.44	14.96	12.35	12.74	--	--	15.68	16.02
Rhode Island	18.63	19.29	14.77	15.78	13.54	13.76	18.76	18.54	16.24	17.01
Vermont	17.33	17.09	14.49	14.54	10.06	10.27	--	--	14.41	14.41
Middle Atlantic	15.76	15.97	12.54	13.13	7.02	7.32	10.89	11.72	12.63	13.00
New Jersey	15.75	15.81	12.42	12.79	10.14	10.64	8.74	10.25	13.49	13.74
New York	17.59	18.54	14.47	15.31	6.04	6.31	12.05	12.95	14.53	15.28
Pennsylvania	14.03	13.64	9.25	9.60	6.92	7.20	7.64	7.82	10.26	10.31
East North Central	12.91	12.96	9.86	9.95	6.91	6.97	6.93	7.01	9.90	9.89
Illinois	12.23	12.50	8.75	9.02	6.37	6.67	6.71	6.81	9.17	9.40
Indiana	11.39	11.57	9.75	9.78	7.02	6.86	9.82	9.92	9.14	8.99
Michigan	15.30	14.42	10.68	10.55	7.04	7.02	11.63	11.44	11.16	10.76
Ohio	12.28	12.80	9.87	10.07	6.78	7.02	7.76	7.69	9.74	9.98
Wisconsin	14.38	14.11	10.95	10.89	7.74	7.58	14.68	14.66	10.92	10.73
West North Central	11.73	11.47	9.47	9.27	7.07	6.88	9.26	8.98	9.57	9.29
Iowa	12.25	11.63	9.35	8.92	6.14	5.90	--	--	8.74	8.35
Kansas	12.95	12.34	10.24	10.10	7.40	7.61	--	--	10.40	10.14
Minnesota	12.73	12.12	9.88	9.44	7.27	7.02	10.09	9.50	10.02	9.53
Missouri	10.89	11.21	9.07	9.16	6.81	6.44	8.31	8.36	9.53	9.44
Nebraska	10.87	10.60	8.88	8.67	7.64	7.59	--	--	9.09	8.91
North Dakota	10.24	9.62	9.14	8.83	8.22	8.07	--	--	9.05	8.75
South Dakota	11.43	11.08	9.47	9.16	7.55	7.37	--	--	9.79	9.47
South Atlantic	11.64	11.74	9.28	9.49	6.40	6.58	7.89	8.12	9.83	9.97
Delaware	13.47	13.42	10.12	10.25	7.98	8.28	--	--	11.15	11.17
District of Columbia	12.87	12.99	11.73	12.01	8.96	8.78	9.40	9.00	11.87	12.07
Florida	11.24	11.58	9.11	9.50	7.81	8.22	8.32	8.92	10.13	10.49
Georgia	11.41	11.54	9.63	9.89	5.64	5.87	5.05	5.27	9.46	9.62
Maryland	14.23	13.82	10.98	11.00	7.84	8.53	7.83	8.34	12.21	12.07
North Carolina	11.14	11.28	8.65	8.73	6.23	6.51	7.88	7.90	9.25	9.37
South Carolina	12.44	12.57	10.14	10.21	6.00	6.05	--	--	9.64	9.58
Virginia	11.42	11.37	7.97	8.21	6.67	6.95	7.76	8.11	9.16	9.31
West Virginia	11.22	10.08	9.34	8.61	6.57	6.09	--	--	8.89	8.11
East South Central	10.82	10.82	10.10	10.24	5.83	5.98	--	--	9.03	9.06
Alabama	12.04	11.70	11.12	10.83	6.08	6.03	--	--	9.59	9.33
Kentucky	10.29	10.24	9.37	9.44	5.49	5.48	--	--	8.26	8.14
Mississippi	10.54	11.27	9.61	10.55	5.91	6.56	--	--	8.72	9.53
Tennessee	10.33	10.30	10.03	10.16	5.82	6.17	--	--	9.26	9.30
West South Central	10.56	10.95	7.81	8.18	5.21	5.59	5.67	5.53	8.07	8.41
Arkansas	9.90	9.82	8.13	8.32	5.93	6.23	10.39	11.21	8.05	8.19
Louisiana	9.11	9.33	8.49	8.66	5.03	5.41	9.03	8.28	7.41	7.65
Oklahoma	10.07	10.14	7.47	7.68	4.85	5.35	--	--	7.72	7.90
Texas	11.02	11.56	7.71	8.15	5.22	5.59	5.43	5.34	8.28	8.70
Mountain	11.68	11.83	9.56	9.71	6.33	6.59	9.65	9.97	9.33	9.48
Arizona	12.21	12.13	10.49	10.39	6.07	6.26	9.38	9.40	10.40	10.34
Colorado	12.02	12.12	9.66	9.88	7.13	7.40	9.80	10.08	9.76	9.94
Idaho	10.00	9.93	7.80	7.80	6.58	6.60	--	--	8.13	8.09
Montana	11.04	10.88	10.18	10.23	4.97	5.32	--	--	8.89	8.90
Nevada	11.42	12.76	8.00	9.25	5.86	6.75	7.83	9.11	8.40	9.48
New Mexico	12.08	12.47	9.85	10.30	5.73	6.33	--	--	9.17	9.62
Utah	11.08	10.88	8.84	8.62	6.31	6.17	9.76	10.05	8.77	8.54
Wyoming	11.18	10.97	9.44	9.12	6.92	6.76	--	--	8.19	7.97
Pacific Contiguous	14.56	14.28	13.28	13.71	9.14	9.03	8.97	8.99	12.82	12.82
California	17.40	16.99	15.15	15.73	12.07	12.17	8.96	8.99	15.31	15.42
Oregon	10.63	10.66	8.87	8.80	6.16	5.97	9.26	9.14	8.90	8.75
Washington	9.38	9.09	8.37	8.22	4.53	4.35	8.96	8.18	7.70	7.40
Pacific Noncontiguous	24.48	25.34	21.61	22.51	19.31	20.77	--	--	21.71	22.80
Alaska	20.61	19.83	18.19	17.44	15.56	14.53	--	--	18.40	17.59
Hawaii	27.46	29.60	24.64	26.93	20.70	23.06	--	--	23.87	26.17
U.S. Total	12.55	12.65	10.37	10.64	6.75	6.91	9.48	10.09	10.28	10.41

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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 5.7. Number of Ultimate Customers Served by Sector: 2008 - December 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	129,811,667	17,985,582	835,527	78	148,632,855
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	129,177,100	17,924,312	814,536	77	147,916,025
February	128,836,192	17,854,428	808,801	77	147,499,498
March	129,858,190	17,975,571	823,107	78	148,656,946
April	129,607,349	17,955,904	823,833	78	148,387,164
May	129,550,528	17,675,632	828,518	79	148,054,757
June	129,833,960	18,042,403	851,608	79	148,728,050
July	130,322,224	18,099,332	860,552	79	149,282,187
August	129,696,710	18,013,711	849,033	78	148,559,532
Sept	130,004,031	18,059,742	851,435	78	148,915,286
October	130,277,004	18,087,524	851,293	78	149,215,899
November	129,722,466	17,995,604	825,647	78	148,543,795
December	130,854,255	18,142,822	837,966	78	149,835,121
Year 2016					
January	130,338,099	17,991,439	804,007	77	149,133,622
February	130,108,685	18,008,942	799,795	80	148,917,502
March	131,347,329	18,177,656	810,362	86	150,335,433
April	130,487,840	18,048,726	797,985	83	149,334,634
May	131,044,577	18,110,084	813,813	86	149,968,560
June	131,330,842	18,162,550	827,304	86	150,320,782
July	131,138,573	18,138,230	821,488	82	150,098,373
August	131,372,255	18,209,116	832,566	82	150,414,019
Sept	131,392,256	18,200,641	820,906	82	150,413,885
October	131,335,623	18,202,781	813,555	83	150,352,042
November	131,340,409	18,176,864	799,953	83	150,317,309
December	131,874,453	18,252,051	800,163	83	150,926,750
Rolling 12 Months Ending in December					
2015	129,811,667	17,985,582	835,527	78	148,632,855
2016	131,092,578	18,139,923	811,825	83	150,044,409

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 2015 and prior years are final. Values for 2016 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: December 2016 and 2015

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	6,301,275	6,349,007	879,085	875,866	25,937	26,815	6	7	7,206,303	7,251,695
Connecticut	1,494,047	1,471,640	152,583	150,705	4,448	4,374	3	3	1,651,081	1,626,722
Maine	710,707	709,502	99,350	98,654	3,115	3,066	0	0	813,172	811,222
Massachusetts	2,744,779	2,802,288	407,036	406,655	13,149	14,036	2	3	3,164,966	3,222,982
New Hampshire	616,269	612,176	107,324	106,816	3,256	3,266	0	0	726,849	722,258
Rhode Island	422,930	441,203	57,111	58,989	1,756	1,839	1	1	481,798	502,032
Vermont	312,543	312,198	55,681	54,047	213	234	0	0	368,437	366,479
Middle Atlantic	16,003,613	15,909,930	2,295,017	2,267,066	42,388	43,187	20	20	18,341,038	18,220,203
New Jersey	3,527,394	3,500,533	515,840	513,714	11,754	12,043	6	NM	4,054,994	4,026,297
New York	7,128,544	7,093,898	1,079,540	1,060,768	7,498	7,641	8	7	8,215,590	8,162,314
Pennsylvania	5,347,675	5,315,499	699,637	692,584	23,136	23,503	6	6	6,070,454	6,031,592
East North Central	20,069,659	19,877,831	2,478,141	2,461,342	51,858	54,690	8	8	22,599,666	22,393,871
Illinois	5,260,389	5,195,262	604,164	604,315	5,505	5,995	3	3	5,870,061	5,805,575
Indiana	2,827,850	2,820,061	348,465	351,304	17,379	18,174	1	1	3,193,695	3,189,540
Michigan	4,352,560	4,299,607	548,422	535,029	NM	5,996	1	1	4,906,721	4,840,633
Ohio	4,941,411	4,902,664	622,936	621,380	18,653	19,066	2	2	5,583,002	5,543,112
Wisconsin	2,687,449	2,660,237	354,154	349,314	NM	5,459	1	1	3,046,187	3,015,011
West North Central	9,400,342	9,300,594	1,443,577	1,415,496	107,757	122,925	3	2	10,951,679	10,839,017
Iowa	1,375,843	1,359,738	242,018	232,800	NM	7,619	0	0	1,624,467	1,600,157
Kansas	1,261,434	1,233,738	234,356	229,934	25,426	23,897	0	0	1,521,216	1,487,569
Minnesota	2,374,803	2,364,817	287,484	286,179	NM	9,598	1	1	2,670,002	2,660,595
Missouri	2,772,139	2,743,904	376,140	374,619	8,287	10,168	2	1	3,156,568	3,128,692
Nebraska	847,428	830,808	159,508	149,717	51,789	60,014	0	0	1,058,725	1,040,539
North Dakota	372,004	376,820	71,614	72,199	NM	7,896	0	0	448,631	456,915
South Dakota	396,691	390,769	72,457	70,048	NM	3,733	0	0	472,070	464,550
South Atlantic	27,387,468	27,006,954	3,762,008	3,714,544	79,675	79,804	13	11	31,229,164	30,801,313
Delaware	420,221	417,068	53,065	52,883	1,120	859	0	0	474,406	470,810
District of Columbia	263,487	256,316	25,985	25,902	1	1	3	1	289,476	282,220
Florida	9,173,755	9,081,436	1,219,017	1,195,098	20,582	19,786	2	2	10,413,356	10,296,322
Georgia	4,287,775	4,210,801	577,929	564,512	19,273	20,426	1	1	4,884,978	4,795,740
Maryland	2,301,876	2,277,726	251,455	250,794	8,833	8,822	5	5	2,562,169	2,537,347
North Carolina	4,460,640	4,356,942	697,830	671,960	9,915	10,215	1	1	5,168,386	5,039,118
South Carolina	2,237,678	2,197,862	361,122	360,129	4,547	4,199	0	0	2,603,347	2,562,190
Virginia	3,382,241	3,347,319	432,268	451,177	3,761	3,699	1	1	3,818,271	3,802,196
West Virginia	859,795	861,484	143,337	142,089	11,643	11,797	0	0	1,014,775	1,015,370
East South Central	8,317,190	8,208,420	1,381,842	1,376,031	24,705	26,891	0	0	9,723,737	9,611,342
Alabama	2,227,653	2,190,067	369,093	364,777	8,119	7,241	0	0	2,604,865	2,562,085
Kentucky	1,974,147	1,953,101	298,524	300,221	7,591	7,536	0	0	2,280,262	2,260,858
Mississippi	1,299,224	1,273,665	237,947	232,878	7,677	10,876	0	0	1,544,848	1,517,419
Tennessee	2,816,166	2,791,587	476,278	478,155	1,318	1,238	0	0	3,293,762	3,270,980
West South Central	15,652,579	15,509,601	2,190,065	2,201,385	178,114	181,849	6	6	18,020,764	17,892,841
Arkansas	1,374,721	1,358,585	190,721	189,090	35,276	35,616	2	2	1,600,720	1,583,293
Louisiana	2,071,529	2,049,993	290,998	299,480	18,443	19,562	1	1	2,380,971	2,369,036
Oklahoma	1,756,344	1,731,059	283,253	279,169	17,997	18,495	0	0	2,057,594	2,028,723
Texas	10,449,985	10,369,964	1,425,093	1,433,646	106,398	108,176	3	3	11,981,479	11,911,789
Mountain	9,589,976	9,466,980	1,370,885	1,376,694	85,093	92,334	4	4	11,045,958	10,936,012
Arizona	2,742,905	2,715,611	317,154	315,935	6,825	7,703	1	1	3,066,885	3,039,250
Colorado	2,270,046	2,240,886	357,528	365,637	13,824	15,835	1	1	2,641,399	2,622,359
Idaho	719,637	706,617	107,810	107,215	27,848	27,542	0	0	855,295	841,374
Montana	502,587	494,880	107,952	105,062	NM	8,273	0	0	616,550	608,215
Nevada	1,152,666	1,133,202	162,012	160,361	NM	3,393	1	1	1,317,791	1,296,957
New Mexico	890,938	874,798	138,192	142,324	8,427	9,343	0	0	1,037,557	1,026,465
Utah	1,039,911	1,031,688	121,958	122,622	9,421	9,663	1	1	1,171,291	1,163,974
Wyoming	271,286	269,298	58,279	57,538	9,625	10,582	0	0	339,190	337,418
Pacific Contiguous	18,435,949	18,512,508	2,336,950	2,342,898	202,521	207,378	23	20	20,975,443	21,062,804
California	13,707,822	13,847,513	1,710,212	1,744,757	151,779	154,589	15	13	15,569,828	15,746,872
Oregon	1,726,075	1,697,439	237,258	230,131	23,146	23,904	2	2	1,986,481	1,951,476
Washington	3,002,052	2,967,556	389,480	368,010	27,596	28,885	6	5	3,419,134	3,364,456
Pacific Noncontiguous	716,402	712,430	114,481	111,500	NM	NM	0	0	832,998	826,023
Alaska	284,906	283,337	53,164	50,732	NM	NM	0	0	339,391	335,380
Hawaii	431,496	429,093	61,317	60,768	794	782	0	0	493,607	490,643
U.S. Total	131,874,453	130,854,255	18,252,051	18,142,822	800,163	837,966	83	78	150,926,750	149,835,121

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 for 2015 are final. Values for 2016 are preliminary estimates based on a cutoff model sample.
NM = Not Meaningful due to large relative standard error or excessive percentage change.
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 6.1. Electric Generating Summer Capacity Changes (MW), November 2016 to December 2016

		As of End of November 2016	Activity During December 2016 as Reported to EIA		As of End of December 2016	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
									Planned Capacity Additions		Planned Capacity Reductions		Planned Net Change		Planned Total Net Summer	
Technology	Capacity Source	Total In-Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	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*	*76,370.8*	*4,911.4*	*0.0*	*81,282.2*	*4,911.4*	*8,708.8*	*8,708.8*	*546.8*	*8,134.2*	*0.0*	*0.0*	*546.8*	*8,134.2*	*81,829.0*	*89,416.4*
..... *Offshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*0.0*	*29.3*	*0.0*	*29.3*	*29.3*	*29.3*	*29.3*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*29.3*	*29.3*
..... Wind (Summer Capacity)	Utility Scale Facilities	76,370.8	4,940.7	0.0	81,311.5	4,940.7	8,738.1	8,738.1	546.8	8,134.2	0.0	0.0	546.8	8,134.2	81,858.3	89,445.7
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*16,950.8*	*2,819.5*	*0.0*	*19,770.3*	*2,819.5*	*7,864.9*	*7,864.9*	*542.7*	*4,910.4*	*0.0*	*0.0*	*542.7*	*4,910.4*	*20,313.0*	*24,680.7*
..... *Solar Thermal without Energy Storage*	*Utility Scale Facilities*	*1,352.5*	*0.0*	*0.0*	*1,352.5*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1,352.5*	*1,352.5*
..... *Solar Thermal with Energy Storage*	*Utility Scale Facilities*	*405.4*	*0.0*	*0.0*	*405.4*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*405.4*	*405.4*
..... Solar Subtotal	Utility Scale Facilities	18,708.7	2,819.5	0.0	21,528.2	2,819.5	7,864.9	7,864.9	542.7	4,910.4	0.0	0.0	542.7	4,910.4	22,070.9	26,438.6
..... Conventional Hydroelectric	Utility Scale Facilities	79,983.4	2.0	0.0	79,985.4	2.0	321.2	321.2	2.5	318.1	0.0	214.2	2.5	103.9	79,987.9	80,089.3
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,943.3*	*0.0*	*0.0*	*8,943.3*	*0.0*	*-25.6*	*-25.6*	*0.0*	*105.0*	*0.0*	*10.5*	*0.0*	*94.5*	*8,943.3*	*9,037.8*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,116.5*	*0.0*	*0.0*	*2,116.5*	*0.0*	*39.6*	*39.6*	*13.8*	*28.7*	*0.0*	*11.2*	*13.8*	*17.5*	*2,130.3*	*2,134.0*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,247.1*	*0.0*	*0.0*	*2,247.1*	*0.0*	*-1.1*	*-1.1*	*0.0*	*0.0*	*2.0*	*2.0*	*-2.0*	*-2.0*	*2,245.1*	*2,245.1*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*817.9*	*0.0*	*46.9*	*771.0*	*-46.9*	*-28.4*	*-28.4*	*2.0*	*19.2*	*0.0*	*0.0*	*2.0*	*19.2*	*773.0*	*790.2*
..... Biomass Sources Subtotal	Utility Scale Facilities	14,124.8	0.0	46.9	14,077.9	-46.9	-15.5	-15.5	15.8	152.9	2.0	23.7	13.8	129.2	14,091.7	14,207.1
..... Geothermal	Utility Scale Facilities	2,541.5	0.0	30.0	2,511.5	-30.0	-30.0	-30.0	0.0	37.0	0.0	60.0	0.0	-23.0	2,511.5	2,488.5
... Renewable Sources Subtotal	***Utility Scale Facilities***	***191,729.2***	***7,762.2***	***76.9***	***199,414.5***	***7,685.3***	***16,878.7***	***16,878.7***	***1,107.8***	***13,552.6***	***2.0***	***297.9***	***1,105.8***	***13,254.7***	***200,520.3***	***212,669.2***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*239,439.2*	*80.0*	*0.0*	*239,519.2*	*80.0*	*5,500.8*	*5,500.8*	*504.0*	*12,515.0*	*0.0*	*0.0*	*504.0*	*12,515.0*	*240,023.2*	*252,034.2*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*125,099.9*	*1,699.2*	*52.0*	*126,747.1*	*1,647.2*	*3,161.6*	*3,161.6*	*525.1*	*1,053.3*	*0.0*	*217.5*	*525.1*	*835.8*	*127,272.2*	*127,582.9*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*77,206.2*	*928.0*	*1,708.0*	*76,426.2*	*-780.0*	*-1,605.0*	*-1,605.0*	*0.0*	*1.2*	*0.0*	*1,694.0*	*0.0*	*-1,692.8*	*76,426.2*	*74,733.4*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*3,814.2*	*224.6*	*0.0*	*4,038.8*	*224.6*	*463.1*	*463.1*	*167.7*	*455.2*	*0.9*	*0.9*	*166.8*	*454.3*	*4,205.6*	*4,493.1*
..... *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*	*112.7*	*3.6*	*0.0*	*116.3*	*3.6*	*11.7*	*11.7*	*0.0*	*29.2*	*0.0*	*0.0*	*0.0*	*29.2*	*116.3*	*145.5*
..... Natural Gas Subtotal	Utility Scale Facilities	445,782.2	2,935.4	1,760.0	446,957.6	1,175.4	7,532.2	7,532.2	1,196.8	14,053.9	0.9	1,912.4	1,195.9	12,141.5	448,153.5	459,099.1
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*270,526.9*	*261.0*	*1,542.0*	*269,245.9*	*-1,281.0*	*-9,659.0*	*-9,659.0*	*0.0*	*0.0*	*3.0*	*4,891.1*	*-3.0*	*-4,891.1*	*269,242.9*	*264,354.8*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*815.0*	*0.0*	*0.0*	*815.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*815.0*	*815.0*
..... Coal Subtotal	Utility Scale Facilities	271,341.9	261.0	1,542.0	270,060.9	-1,281.0	-9,659.0	-9,659.0	0.0	0.0	3.0	4,891.1	-3.0	-4,891.1	270,057.9	265,169.8
..... Petroleum Coke	Utility Scale Facilities	1,540.3	0.0	0.0	1,540.3	0.0	-204.0	-204.0	0.0	0.0	0.0	0.0	0.0	0.0	1,540.3	1,540.3
..... Petroleum Liquids	Utility Scale Facilities	34,865.6	0.0	8.0	34,857.6	-8.0	-228.4	-228.4	2.0	17.3	0.7	641.2	1.3	-623.9	34,858.9	34,233.7
..... Other Gases	Utility Scale Facilities	2,497.2	0.0	0.0	2,497.2	0.0	-3.2	-3.2	0.0	0.0	0.0	0.0	0.0	0.0	2,497.2	2,497.2
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***756,027.2***	***3,196.4***	***3,310.0***	***755,913.6***	***-113.6***	***-2,562.4***	***-2,562.4***	***1,198.8***	***14,071.2***	***4.6***	***7,444.7***	***1,194.2***	***6,626.5***	***757,107.8***	***762,540.1***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,670.1	0.0	0.0	22,670.1	0.0	95.0	95.0	0.0	114.0	0.0	0.0	0.0	114.0	22,670.1	22,784.1
..... Flywheels	Utility Scale Facilities	44.0	0.0	0.0	44.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0
..... Batteries	Utility Scale Facilities	460.7	79.0	0.0	539.7	79.0	247.5	247.5	47.5	138.6	0.0	0.0	47.5	138.6	587.2	678.3
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,174.8***	***79.0***	***0.0***	***23,253.8***	***79.0***	***344.5***	***344.5***	***47.5***	***252.6***	***0.0***	***0.0***	***47.5***	***252.6***	***23,301.3***	***23,506.4***
... Nuclear	***Utility Scale Facilities***	***99,315.9***	***0.0***	***0.0***	***99,315.9***	***0.0***	***643.9***	***643.9***	***0.0***	***20.0***	***0.0***	***0.0***	***0.0***	***20.0***	***99,315.9***	***99,335.9***
... All Other	***Utility Scale Facilities***	***1,484.8***	***0.0***	***0.0***	***1,484.8***	***0.0***	***23.4***	***23.4***	***0.0***	***30.9***	***0.0***	***0.0***	***0.0***	***30.9***	***1,484.8***	***1,515.7***
TOTAL	**UTILITY SCALE FACILITIES**	**1,071,731.9**	**11,037.6**	**3,386.9**	**1,079,382.6**	**7,650.7**	**15,328.1**	**15,328.1**	**2,354.1**	**27,927.3**	**6.6**	**7,742.6**	**2,347.5**	**20,184.7**	**1,081,730.1**	**1,099,567.3**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*12,855.4*			*13,183.2*	*327.8*	*3,404.7*	*3,404.7*								
..... Estimated Total Solar Photovoltaic	All Facilities	29,806.2			32,953.5	3,147.3	11,269.6	11,269.6								
... Estimated Total Solar	***All Facilities***	***31,564.1***			***34,711.4***	***3,147.3***	***11,269.6***	***11,269.6***								

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 table.

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 small scale 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. Estimated Net Summer Solar Photovoltaic Capacity From Utility and Small Scale Facilities (Megawatts)
2008 - December 2016

Period	Utility Solar Photovoltaic	Estimated Small Scale 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	7,326.6	15,983.2
2015	11,905.4	9,778.5	21,683.9
Year 2014			
January	5,688.0	5,612.6	11,300.6
February	5,839.2	5,728.2	11,567.4
March	5,967.9	5,853.0	11,820.9
April	6,188.0	5,978.9	12,166.9
May	6,368.8	6,111.6	12,480.4
June	6,564.1	6,227.2	12,791.3
July	6,706.3	6,369.2	13,075.5
August	7,105.0	6,603.0	13,708.0
Sept	7,215.1	6,749.8	13,964.9
October	7,575.3	6,922.0	14,497.3
November	8,005.3	7,078.0	15,083.3
December	8,656.6	7,326.6	15,983.2
Year 2015			
January	8,873.2	7,369.4	16,242.6
February	9,027.0	7,529.1	16,556.1
March	9,088.1	7,696.7	16,784.8
April	9,154.4	7,860.3	17,014.7
May	9,368.0	8,050.6	17,418.6
June	9,638.9	8,235.9	17,874.8
July	9,714.8	8,479.1	18,193.9
August	9,945.4	8,700.9	18,646.3
Sept	10,050.2	8,951.5	19,001.7
October	10,156.7	9,188.4	19,345.1
November	10,478.7	9,416.7	19,895.4
December	11,905.4	9,778.5	21,683.9
Year 2016			
January	12,272.1	10,226.8	22,498.9
February	12,401.5	10,486.5	22,888.0
March	12,583.1	10,809.5	23,392.6
April	13,123.6	11,069.8	24,193.4
May	13,231.7	11,311.7	24,543.4
June	13,420.2	11,568.8	24,989.0
July	14,145.5	11,781.0	25,926.5
August	15,077.2	12,063.5	27,140.7
Sept	15,844.7	12,305.5	28,150.2
October	16,408.2	12,567.0	28,975.2
November	16,950.8	12,855.4	29,806.2
December	19,770.3	13,183.2	32,953.5

Values for 2015 are final. Values for 2016 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 small scale 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.B. Estimated Net Summer Solar Photovoltaic Capacity From Small Scale Facilities by Sector (Megawatts):
2014 - December 2016

Period	Residential	Commercial	Industrial	Total
Annual Totals				
2014	3,346.3	3,279.7	700.6	7,326.6
2015	5,191.5	3,706.7	880.3	9,778.5
Year 2014				
January	2,285.2	2,766.5	561.0	5,612.6
February	2,354.4	2,804.9	568.9	5,728.2
March	2,428.2	2,848.7	576.2	5,853.0
April	2,506.9	2,883.8	588.2	5,978.9
May	2,588.3	2,930.2	593.0	6,111.6
June	2,677.6	2,946.1	603.5	6,227.2
July	2,765.0	2,989.0	615.1	6,369.2
August	2,873.0	3,096.4	633.6	6,603.0
Sept	2,980.3	3,128.7	640.9	6,749.8
October	3,092.8	3,162.3	667.0	6,922.0
November	3,191.8	3,203.2	683.0	7,078.0
December	3,346.3	3,279.7	700.6	7,326.6
Year 2015				
January	3,424.8	3,227.0	717.6	7,369.4
February	3,550.2	3,245.1	733.7	7,529.1
March	3,689.3	3,268.3	739.1	7,696.7
April	3,816.3	3,294.6	749.4	7,860.3
May	3,949.5	3,336.6	764.5	8,050.6
June	4,110.7	3,356.2	768.9	8,235.9
July	4,275.5	3,414.5	789.1	8,479.1
August	4,440.5	3,455.9	804.5	8,700.9
Sept	4,635.1	3,498.9	817.4	8,951.5
October	4,815.7	3,540.5	832.2	9,188.4
November	4,972.5	3,593.4	850.8	9,416.7
December	5,191.5	3,706.7	880.3	9,778.5
Year 2016				
January	5,352.9	3,991.9	882.0	10,226.8
February	5,550.7	4,033.4	902.4	10,486.5
March	5,775.1	4,104.2	930.3	10,809.5
April	5,972.7	4,149.0	948.1	11,069.8
May	6,159.1	4,188.8	963.7	11,311.7
June	6,352.0	4,239.0	977.7	11,568.8
July	6,512.3	4,271.8	996.9	11,781.0
August	6,704.7	4,343.1	1,015.8	12,063.5
Sept	6,873.9	4,404.9	1,026.7	12,305.5
October	7,060.2	4,469.8	1,037.0	12,567.0
November	7,241.6	4,565.7	1,048.1	12,855.4
December	7,421.2	4,680.8	1,081.2	13,183.2

Values for 2015 are final. Values for 2016 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 small scale solar photovoltaic capacity is based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

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

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	5,469.2	4,976.7	22,732.3	22,757.0	1,797.4	1,775.4	21.0	2.0	4,018.0	4,018.0	48.0	48.0	34,085.9	33,577.1
Connecticut	343.2	331.4	6,314.9	6,309.6	29.4	29.4	0.8	0.0	2,087.8	2,087.8	26.0	26.0	8,802.1	8,784.2
Maine	2,443.5	2,150.5	2,442.5	2,442.5	0.0	0.0	16.2	0.0	0.0	0.0	22.0	22.0	4,924.2	4,615.0
Massachusetts	1,059.9	963.0	9,795.0	9,843.0	1,768.0	1,746.0	2.0	2.0	682.3	682.3	0.0	0.0	13,307.2	13,236.3
New Hampshire	932.5	918.9	2,270.9	2,270.9	0.0	0.0	0.0	0.0	1,247.9	1,247.9	0.0	0.0	4,451.3	4,437.7
Rhode Island	98.6	57.3	1,809.3	1,791.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,907.9	1,848.6
Vermont	591.5	555.6	99.7	99.7	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	693.2	655.3
Middle Atlantic	10,882.5	10,660.1	69,327.9	68,015.2	3,409.1	3,409.1	70.5	40.0	19,224.5	19,224.5	11.2	11.2	102,925.7	101,360.1
New Jersey	794.4	692.6	13,588.3	13,535.5	420.0	420.0	0.0	0.0	4,107.9	4,107.9	11.2	11.2	18,921.8	18,767.2
New York	7,191.8	7,114.9	25,983.0	26,310.1	1,406.1	1,406.1	20.0	20.0	5,397.6	5,397.6	0.0	0.0	39,998.5	40,248.7
Pennsylvania	2,896.3	2,852.6	29,756.6	28,169.6	1,583.0	1,583.0	50.5	20.0	9,719.0	9,719.0	0.0	0.0	44,005.4	42,344.2
East North Central	10,618.3	10,049.1	113,618.0	116,179.5	2,037.0	1,964.0	187.4	100.6	18,896.1	18,896.1	110.1	110.1	145,466.9	147,299.4
Illinois	4,161.0	3,977.0	29,487.1	29,893.2	0.0	0.0	112.4	72.6	11,589.6	11,589.6	0.0	0.0	45,350.1	45,532.4
Indiana	2,188.1	2,004.0	23,027.9	24,231.4	0.0	0.0	22.0	0.0	0.0	0.0	89.0	89.0	25,327.0	26,324.4
Michigan	2,337.1	2,253.5	20,962.9	21,868.5	2,037.0	1,964.0	0.0	0.0	3,976.5	3,976.5	0.0	0.0	29,313.5	30,062.5
Ohio	820.3	714.1	25,800.0	25,835.0	0.0	0.0	53.0	28.0	2,134.0	2,134.0	0.0	0.0	28,807.3	28,711.1
Wisconsin	1,111.8	1,100.5	14,340.1	14,351.4	0.0	0.0	0.0	0.0	1,196.0	1,196.0	21.1	21.1	16,669.0	16,669.0
West North Central	24,365.7	21,197.6	60,632.4	61,120.3	657.0	657.0	2.0	2.0	5,377.4	5,855.5	24.5	24.5	91,059.0	88,856.9
Iowa	6,879.5	6,302.3	9,567.2	9,950.1	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,048.1	16,853.8
Kansas	4,472.0	3,590.9	9,727.8	9,583.1	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	15,375.6	14,349.8
Minnesota	4,362.5	3,916.0	10,132.6	10,160.6	0.0	0.0	1.0	1.0	1,647.0	1,647.0	18.4	18.4	16,161.5	15,743.0
Missouri	1,242.2	1,032.2	18,659.1	18,883.6	657.0	657.0	1.0	1.0	1,190.0	1,190.0	0.0	0.0	21,749.3	21,763.8
Nebraska	1,627.2	1,178.9	6,239.9	6,237.1	0.0	0.0	0.0	0.0	764.0	1,242.1	0.0	0.0	8,631.1	8,658.1
North Dakota	3,345.5	2,741.5	4,615.5	4,615.5	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	7,966.3	7,362.3
South Dakota	2,436.8	2,435.8	1,690.3	1,690.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,127.1	4,126.1
South Atlantic	16,358.7	14,039.5	161,004.7	157,964.9	7,905.2	7,905.2	77.5	76.5	24,578.6	24,578.6	509.7	509.7	210,434.4	205,074.4
Delaware	44.9	44.9	3,359.0	3,358.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,403.9	3,403.0
District of Columbia	12.0	12.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	21.0
Florida	1,668.9	1,425.5	55,357.0	53,289.6	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	348.7	60,946.6	58,635.8
Georgia	3,924.0	3,188.5	26,956.9	27,190.9	1,862.2	1,862.2	1.0	0.0	4,061.0	4,061.0	0.0	0.0	36,805.1	36,302.6
Maryland	1,038.1	1,007.0	9,556.7	9,681.7	0.0	0.0	11.0	11.0	1,707.8	1,707.8	0.0	0.0	12,313.6	12,407.5
North Carolina	4,976.8	3,928.4	22,021.3	22,021.3	86.0	86.0	0.0	0.0	5,113.6	5,113.6	161.0	161.0	32,358.7	31,310.3
South Carolina	1,797.2	1,790.4	11,633.0	11,635.2	2,716.0	2,716.0	0.0	0.0	6,556.2	6,556.2	0.0	0.0	22,702.4	22,697.8
Virginia	1,863.8	1,756.8	17,948.5	16,615.8	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	26,621.3	25,181.6
West Virginia	1,033.0	886.0	14,163.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	15,261.8	15,114.8
East South Central	8,318.7	8,012.4	65,838.3	67,273.3	1,616.3	1,616.3	0.0	0.0	10,990.1	9,868.1	1.4	1.4	86,764.8	86,771.5
Alabama	4,014.9	3,941.6	20,214.5	21,398.5	0.0	0.0	0.0	0.0	5,066.4	5,066.4	0.0	0.0	29,295.8	30,406.5
Kentucky	1,112.9	907.0	19,004.5	19,153.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,117.4	20,060.5
Mississippi	277.8	274.7	14,315.4	14,407.4	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	15,995.6	16,084.5
Tennessee	2,913.1	2,889.1	12,303.9	12,313.9	1,616.3	1,616.3	0.0	0.0	4,522.7	3,400.7	0.0	0.0	21,356.0	20,220.0
West South Central	31,773.4	27,353.2	143,618.6	145,833.5	286.0	286.0	41.0	40.0	8,896.2	8,896.2	527.2	512.2	185,142.4	182,921.1
Arkansas	1,591.6	1,590.6	11,256.6	11,279.6	28.0	28.0	0.0	0.0	1,808.5	1,808.5	0.0	0.0	14,684.7	14,706.7
Louisiana	687.1	687.1	21,229.0	23,144.6	0.0	0.0	0.0	0.0	2,127.7	2,127.7	290.9	275.9	24,334.7	26,235.3
Oklahoma	7,584.2	5,941.7	18,218.2	18,635.4	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	26,060.4	24,835.1
Texas	21,910.5	19,133.8	92,914.8	92,773.9	0.0	0.0	41.0	40.0	4,960.0	4,960.0	236.3	236.3	120,062.6	117,144.0
Mountain	24,704.6	22,222.0	64,073.4	64,069.6	778.8	778.8	2.6	2.6	3,937.0	3,937.0	119.8	111.4	93,616.2	91,121.4
Arizona	4,925.1	4,541.4	19,382.4	19,382.4	216.3	216.3	0.0	0.0	3,937.0	3,937.0	0.0	0.0	28,460.8	28,077.1
Colorado	4,145.2	3,857.7	11,354.0	11,363.0	562.5	562.5	0.0	0.0	0.0	0.0	9.3	9.3	16,071.0	15,792.5
Idaho	3,896.1	3,776.1	1,147.1	1,157.5	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,058.0	4,948.4
Montana	3,439.1	3,414.1	2,740.4	2,722.2	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,223.5	6,180.3
Nevada	3,243.9	2,619.5	8,258.7	8,258.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,502.6	10,878.2
New Mexico	1,682.2	1,464.4	6,936.9	6,936.9	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,621.7	8,403.9
Utah	1,578.6	834.4	7,467.4	7,462.4	0.0	0.0	0.0	0.0	0.0	0.0	40.2	31.8	9,086.2	8,328.6
Wyoming	1,794.4	1,714.4	6,786.5	6,786.5	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,592.4	8,512.4
Pacific Contiguous	65,875.7	62,953.6	50,885.8	51,152.1	4,183.3	4,183.3	125.7	16.5	3,398.0	3,398.0	106.3	106.3	124,574.8	121,809.8
California	28,968.7	26,181.1	41,698.3	42,484.6	3,869.3	3,869.3	115.5	10.5	2,240.0	2,240.0	106.3	106.3	76,998.1	74,891.8
Oregon	12,119.9	12,050.7	4,372.8	3,859.8	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,497.7	15,915.5
Washington	24,787.1	24,721.8	4,814.7	4,807.7	314.0	314.0	5.2	1.0	1,158.0	1,158.0	0.0	0.0	31,079.0	31,002.5
Pacific Noncontiguous	1,047.7	1,071.6	4,182.2	4,110.6	0.0	0.0	56.0	54.0	0.0	0.0	26.6	26.6	5,312.5	5,262.8
Alaska	515.2	508.7	2,125.0	2,053.4	0.0	0.0	29.0	27.0	0.0	0.0	0.0	0.0	2,669.2	2,589.1
Hawaii	532.5	562.9	2,057.2	2,057.2	0.0	0.0	27.0	27.0	0.0	0.0	26.6	26.6	2,643.3	2,673.7
U.S. Total	199,414.5	182,535.8	755,913.6	758,476.0	22,670.1	22,575.1	583.7	334.2	99,315.9	98,672.0	1,484.8	1,461.4	1,079,382.6	1,064,054.5

NM = Not meaningful due to large relative standard error.
Values for 2015 are final. Values for 2016 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, December 2016 and 2015 (Megawatts)

Census Division and State	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	1,346.5	994.1	511.8	386.6	0.0	0.0	1,955.2	1,948.8	1,655.7	1,647.2	0.0	0.0	5,469.2	4,976.7	1,419.1	1,034.0	1,930.9	1,420.6	1,930.9	1,420.6
Connecticut	1.1	0.0	20.7	10.0	0.0	0.0	122.2	122.2	199.2	199.2	0.0	0.0	343.2	331.4	265.6	180.8	286.3	190.8	286.3	190.8
Maine	898.8	612.8	0.0	0.0	0.0	0.0	728.9	728.9	815.8	808.8	0.0	0.0	2,443.5	2,150.5	23.3	16.6	23.3	16.6	23.3	16.6
Massachusetts	94.5	82.6	416.2	334.0	0.0	0.0	265.9	263.1	283.3	283.3	0.0	0.0	1,059.9	963.0	997.5	750.3	1,413.7	1,084.3	1,413.7	1,084.3
New Hampshire	183.1	171.0	0.0	0.0	0.0	0.0	504.8	504.8	244.6	243.1	0.0	0.0	932.5	918.9	53.4	25.5	53.4	25.5	53.4	25.5
Rhode Island	48.8	7.5	10.2	10.2	0.0	0.0	2.7	2.7	36.9	36.9	0.0	0.0	98.6	57.3	16.9	10.1	27.1	20.3	27.1	20.3
Vermont	120.2	120.2	64.7	32.4	0.0	0.0	330.7	327.1	75.9	75.9	0.0	0.0	591.5	555.6	62.3	50.7	127.0	83.1	127.0	83.1
Middle Atlantic	3,205.7	3,088.1	688.1	566.9	0.0	0.0	5,623.5	5,623.5	1,365.2	1,381.6	0.0	0.0	10,882.5	10,660.1	2,215.6	1,743.8	2,903.7	2,310.7	2,903.7	2,310.7
New Jersey	7.6	7.6	545.4	443.6	0.0	0.0	12.3	12.3	229.1	229.1	0.0	0.0	794.4	692.6	1,259.9	1,026.4	1,805.3	1,470.0	1,805.3	1,470.0
New York	1,824.7	1,747.0	98.3	81.1	0.0	0.0	4,711.6	4,711.6	557.2	575.2	0.0	0.0	7,191.8	7,114.9	732.8	536.7	831.1	617.8	831.1	617.8
Pennsylvania	1,373.4	1,333.5	44.4	42.2	0.0	0.0	899.6	899.6	578.9	577.3	0.0	0.0	2,896.3	2,852.6	222.8	180.6	267.2	222.8	267.2	222.8
East North Central	8,178.3	7,662.6	255.5	207.9	0.0	0.0	913.2	910.3	1,271.3	1,268.3	0.0	0.0	10,618.3	10,049.1	180.9	144.6	436.4	352.5	436.4	352.5
Illinois	3,983.8	3,799.8	32.8	32.8	0.0	0.0	34.1	34.1	110.3	110.3	0.0	0.0	4,161.0	3,977.0	26.8	19.0	59.6	51.8	59.6	51.8
Indiana	1,889.7	1,739.7	160.5	129.4	0.0	0.0	60.4	60.4	77.5	74.5	0.0	0.0	2,188.1	2,004.0	10.5	7.5	171.0	136.9	171.0	136.9
Michigan	1,439.5	1,360.1	12.5	2.0	0.0	0.0	324.6	330.9	560.5	560.5	0.0	0.0	2,337.1	2,253.5	NM	27.7	NM	29.7	NM	NM
Ohio	533.9	431.6	46.6	42.7	0.0	0.0	101.9	101.9	137.9	137.9	0.0	0.0	820.3	714.1	82.0	69.9	128.6	112.6	128.6	112.6
Wisconsin	331.4	331.4	3.1	1.0	0.0	0.0	392.2	383.0	385.1	385.1	0.0	0.0	1,111.8	1,100.5	28.9	20.6	32.0	21.6	32.0	21.6
West North Central	20,343.7	17,352.1	193.0	16.5	0.0	0.0	3,278.1	3,278.1	550.9	550.9	0.0	0.0	24,365.7	21,197.6	189.2	151.4	382.2	167.9	382.2	167.9
Iowa	6,709.6	6,134.2	1.8	0.0	0.0	0.0	144.9	144.9	23.2	23.2	0.0	0.0	6,879.5	6,302.3	41.8	31.4	43.6	31.4	43.6	31.4
Kansas	4,455.0	3,573.9	1.0	1.0	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	4,472.0	3,590.9	6.8	3.1	7.8	4.1	7.8	4.1
Minnesota	3,531.7	3,240.7	159.5	4.0	0.0	0.0	194.6	194.6	476.7	476.7	0.0	0.0	4,362.5	3,916.0	29.1	20.0	188.6	24.0	188.6	24.0
Missouri	654.3	458.5	25.7	11.5	0.0	0.0	545.7	545.7	16.5	16.5	0.0	0.0	1,242.2	1,032.2	108.9	95.4	134.6	106.9	134.6	106.9
Nebraska	1,329.6	885.3	4.0	0.0	0.0	0.0	277.9	277.9	15.7	15.7	0.0	0.0	1,627.2	1,178.9	1.7	0.9	5.7	0.9	5.7	0.9
North Dakota	2,825.7	2,221.7	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	3,345.5	2,741.5	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	837.8	1.0	0.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	2,436.8	2,435.8	0.6	0.3	1.6	0.3	1.6	0.3
South Atlantic	1,086.3	775.3	3,840.4	1,881.5	0.0	0.0	7,249.3	7,207.7	4,182.7	4,175.0	0.0	0.0	16,358.7	14,039.5	1,133.9	664.2	4,974.3	2,545.7	4,974.3	2,545.7
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	82.0	55.2	112.7	85.9	112.7	85.9
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	12.0	12.0	41.7	20.4	41.7	20.4	41.7	20.4
Florida	0.0	0.0	325.8	82.4	0.0	0.0	54.5	54.5	1,288.6	1,288.6	0.0	0.0	1,668.9	1,425.5	157.1	105.2	482.9	187.6	482.9	187.6
Georgia	0.0	0.0	981.1	245.2	0.0	0.0	2,045.1	2,047.5	897.8	895.8	0.0	0.0	3,924.0	3,188.5	NM	NM	NM	NM	NM	NM
Maryland	190.0	190.0	116.1	83.9	0.0	0.0	590.0	590.0	142.0	143.1	0.0	0.0	1,038.1	1,007.0	568.7	320.3	684.8	404.2	684.8	404.2
North Carolina	208.0	0.0	2,272.0	1,436.8	0.0	0.0	2,004.1	2,004.1	492.7	487.5	0.0	0.0	4,976.8	3,928.4	105.9	69.3	2,377.9	1,506.1	2,377.9	1,506.1
South Carolina	0.0	0.0	9.3	2.5	0.0	0.0	1,345.1	1,345.1	442.8	442.8	0.0	0.0	1,797.2	1,790.4	43.1	5.7	52.4	8.2	52.4	8.2
Virginia	0.0	0.0	105.4	0.0	0.0	0.0	866.0	866.0	892.4	890.8	0.0	0.0	1,863.8	1,756.8	31.0	22.5	136.4	22.5	136.4	22.5
West Virginia	686.3	583.3	0.0	0.0	0.0	0.0	344.5	300.5	2.2	2.2	0.0	0.0	1,033.0	886.0	4.3	3.2	4.3	3.2	4.3	3.2
East South Central	29.1	29.1	157.3	45.2	0.0	0.0	6,921.8	6,726.9	1,210.5	1,211.2	0.0	0.0	8,318.7	8,012.4	56.8	49.2	214.1	94.4	214.1	94.4
Alabama	0.0	0.0	75.0	0.0	0.0	0.0	3,271.0	3,271.0	668.9	670.6	0.0	0.0	4,014.9	3,941.6	2.4	2.0	77.4	2.0	77.4	2.0
Kentucky	0.0	0.0	10.0	0.0	0.0	0.0	1,032.2	837.3	70.7	69.7	0.0	0.0	1,112.9	907.0	11.4	9.2	21.4	9.2	21.4	9.2
Mississippi	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	277.8	274.7	3.4	1.1	6.5	1.1	6.5	1.1
Tennessee	29.1	29.1	69.2	45.2	0.0	0.0	2,618.6	2,618.6	196.2	196.2	0.0	0.0	2,913.1	2,889.1	39.6	36.9	108.8	82.1	108.8	82.1
West South Central	26,819.5	22,659.3	594.4	332.4	0.0	0.0	2,986.5	2,988.5	1,373.0	1,373.0	0.0	0.0	31,773.4	27,353.2	384.2	261.7	978.6	594.1	978.6	594.1
Arkansas	0.0	0.0	13.0	12.0	0.0	0.0	1,266.2	1,266.2	312.4	312.4	0.0	0.0	1,591.6	1,590.6	4.9	3.8	17.9	15.8	17.9	15.8
Louisiana	0.0	0.0	0.0	0.0	0.0	0.0	192.0	192.0	495.1	495.1	0.0	0.0	687.1	687.1	121.7	108.7	121.7	108.7	121.7	108.7
Oklahoma	6,645.9	5,001.4	2.5	2.5	0.0	0.0	859.6	861.6	76.2	76.2	0.0	0.0	7,584.2	5,941.7	3.2	2.0	5.7	4.5	5.7	4.5
Texas	20,173.6	17,657.9	578.9	317.9	0.0	0.0	668.7	668.7	489.3	489.3	0.0	0.0	21,910.5	19,133.8	254.4	147.2	833.3	465.1	833.3	465.1
Mountain	8,068.9	7,789.3	4,869.1	2,677.1	473.9	473.9	10,561.7	10,560.5	186.2	176.4	544.8	544.8	24,704.6	22,222.0	1,633.1	1,311.9	6,502.2	3,989.0	6,976.1	4,462.9
Arizona	267.3	267.3	1,610.8	1,227.1	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	4,925.1	4,541.4	907.7	769.0	2,518.5	1,996.1	2,813.9	2,291.5
Colorado	3,022.6	2,961.8	417.5	192.0	0.0	0.0	677.7	676.5	27.4	27.4	0.0	0.0	4,145.2	3,857.7	287.0	250.7	704.5	442.7	704.5	442.7
Idaho	962.7	962.7	120.0	0.0	0.0	0.0	2,707.7	2,707.7	95.7	95.7	10.0	10.0	3,896.1	3,776.1	7.3	4.6	127.3	4.6	127.3	4.6
Montana	678.5	653.5	0.0	0.0	0.0	0.0	2,757.6	2,757.6	3.0	3.0	0.0	0.0	3,439.1	3,414.1	7.9	6.2	7.9	6.2	7.9	6.2
Nevada	150.0	150.0	1,394.2	776.2	178.5	178.5	1,051.4	1,051.4	9.6	3.2	460.2	460.2	3,243.9	2,619.5	209.5	151.4	1,603.7	927.6	1,782.2	1,106.1
New Mexico	1,112.3	1,062.3	479.8	315.4	0.0	0.0	82.9	82.9	5.6	2.2	1.6	1.6	1,682.2	1,464.4	95.2	76.9	575.0	392.3	575.0	392.3
Utah	388.2	324.4	846.8	166.4	0.0	0.0	256.4	256.4	14.2	14.2	73.0	73.0	1,578.6	834.4	116.1	51.3	962.9	217.7	962.9	217.7
Wyoming	1,487.3	1,407.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,794.4	1,714.4	2.4	NM	2.4	NM	2.4	1.8
Pacific Contiguous	11,967.3	11,957.3	8,610.0	5,747.1	1,284.0	1,284.0	40,022.6	39,953.8	2,068.1	2,057.7	1,923.7	1,953.7	65,875.7	62,953.6	5,527.7	4,025.9	14,137.7	9,773.0	15,421.7	11,057.0
California	5,726.8	5,726.8	8,519.5	5,727.7	1,284.0	1,284.0	10,186.7	10,186.2	1,347.5	1,322.2	1,904.2	1,934.2	28,968.7	26,181.1	5,360.1	3,900.0	13,879.6	9,627.7	15,163.6	10,911.7
Oregon	3,167.4	3,157.4	90.0	18.9	0.0	0.0	8,525.4	8,525.4	317.6	329.5	19.5	19.5	12,119.9	12,050.7	90.0	71.3	180.0	90.2	180.0	90.2
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,310.5	21,242.2	403.0	406.0	0.0	0.0	24,787.1	24,721.8	77.5	54.6	78.0	55.1	78.0	55.1
Pacific Noncontiguous	266.2	266.2	50.7	44.2	0.0	0.0	473.5	466.1	214.3	252.1	43.0	43.0	1,047.7	1,071.6	442.8	391.8	493.5	436.0	493.5	436.0
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	447.6	441.1	7.0	7.0	0.0	0.0	515.2	508.7	0.0	0.0	0.0	0.0	0.0	0.0
Hawaii	205.6	205.6	50.7	44.2	0.0	0.0	25.9	25.0	207.3	245.1	43.0	43.0	532.5	562.9	442.8	391.8	493.5	436.0	493.5	436.0
U.S. Total	81,311.5	72,573.4	19,770.3	11,905.4	1,757.9	1,757.9	79,985.4	79,664.2	14,077.9	14,093.4	2,511.5	2,541.5	199,414.5	182,535.8	13,183.2	9,778.5	32,953.5	21,683.9	34,711.4	23,441.8

NM = Not meaningful due to large relative standard error.
Values for 2015 are final. Values for 2016 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 small scale solar photovoltaic capacity is based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, December 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	
	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015	December 2016	December 2015
New England	11,911.0	11,893.0	1,115.5	1,115.5	649.3	644.0	1,955.3	1,988.3	0.0	0.0	7,101.2	7,116.2	0.0	0.0	22,732.3	22,757.0
Connecticut	2,547.5	2,547.5	479.3	479.3	424.4	419.1	383.4	383.4	0.0	0.0	2,480.3	2,480.3	0.0	0.0	6,314.9	6,309.6
Maine	1,250.0	1,250.0	297.1	297.1	14.5	14.5	0.0	0.0	0.0	0.0	880.9	880.9	0.0	0.0	2,442.5	2,442.5
Massachusetts	5,098.6	5,098.6	335.3	335.3	198.0	198.0	1,038.0	1,071.0	0.0	0.0	3,125.1	3,140.1	0.0	0.0	9,795.0	9,843.0
New Hampshire	1,235.2	1,235.2	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	2,270.9
Rhode Island	1,779.7	1,761.7	0.0	0.0	12.4	12.4	0.0	0.0	0.0	0.0	17.2	17.2	0.0	0.0	1,809.3	1,791.3
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.7	0.0	0.0	99.7	99.7
Middle Atlantic	26,296.8	24,621.1	7,599.7	7,599.7	14,465.8	13,207.8	15,380.0	16,993.0	78.6	78.6	5,383.2	5,391.2	123.8	123.8	69,327.9	68,015.2
New Jersey	8,104.3	8,047.5	2,817.1	2,817.1	1,113.2	1,109.2	1,245.0	1,245.0	11.6	11.6	273.7	281.7	23.4	23.4	13,588.3	13,535.5
New York	8,122.0	8,069.1	3,105.2	3,105.2	9,522.0	9,522.0	1,749.6	2,129.6	0.0	0.0	3,484.2	3,484.2	0.0	0.0	25,983.0	26,310.1
Pennsylvania	10,070.5	8,504.5	1,677.4	1,677.4	3,830.6	2,576.6	12,385.4	13,618.4	67.0	67.0	1,625.3	1,625.3	100.4	100.4	29,756.6	28,169.6
East North Central	17,043.4	17,001.6	26,050.4	25,525.3	3,904.6	3,283.4	62,440.3	65,964.6	317.6	521.6	2,721.8	2,739.9	1,139.9	1,143.1	113,618.0	116,179.5
Illinois	3,549.8	3,543.0	10,211.1	10,164.4	281.4	278.2	14,644.6	15,109.6	0.0	0.0	685.7	680.3	114.5	117.7	29,487.1	29,893.2
Indiana	2,480.2	2,480.2	3,127.6	3,142.6	706.1	88.1	15,793.4	17,384.9	70.0	274.0	262.3	273.3	588.3	588.3	23,027.9	24,231.4
Michigan	4,296.5	4,296.5	3,921.9	3,428.5	2,465.8	2,465.8	9,451.0	10,837.5	47.2	47.2	530.5	543.0	250.0	250.0	20,962.9	21,868.5
Ohio	4,076.0	4,041.0	5,427.7	5,427.7	131.4	131.4	15,189.9	15,259.9	142.0	142.0	645.9	645.9	187.1	187.1	25,800.0	25,835.0
Wisconsin	2,640.9	2,640.9	3,362.1	3,362.1	319.9	319.9	7,361.4	7,372.7	58.4	58.4	597.4	597.4	0.0	0.0	14,340.1	14,351.4
West North Central	6,034.9	5,917.9	11,415.8	11,393.8	3,901.8	3,617.1	35,143.4	36,055.1	32.0	32.0	4,096.1	4,096.0	8.4	8.4	60,632.4	61,120.3
Iowa	1,125.8	1,125.8	1,140.6	1,105.6	572.8	467.4	5,681.7	6,205.9	32.0	32.0	1,014.3	1,013.4	0.0	0.0	9,567.2	9,950.1
Kansas	266.0	149.0	2,171.8	2,184.8	2,054.5	2,024.0	4,698.2	4,687.2	0.0	0.0	537.3	538.1	0.0	0.0	9,727.8	9,583.1
Minnesota	2,173.2	2,173.2	2,534.1	2,534.1	325.8	353.8	4,300.1	4,300.1	0.0	0.0	799.4	799.4	0.0	0.0	10,132.6	10,160.6
Missouri	1,837.3	1,837.3	3,395.2	3,395.2	349.9	349.9	11,932.0	12,156.5	0.0	0.0	1,144.7	1,144.7	0.0	0.0	18,659.1	18,883.6
Nebraska	342.6	342.6	1,151.5	1,151.5	590.1	413.3	3,842.0	4,016.0	0.0	0.0	313.7	313.7	0.0	0.0	6,239.9	6,237.1
North Dakota	0.0	0.0	328.0	328.0	0.0	0.0	4,214.4	4,214.4	0.0	0.0	64.7	64.7	8.4	8.4	4,615.5	4,615.5
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	51,265.3	48,550.2	32,728.9	31,110.1	6,977.7	7,072.8	58,031.6	59,031.6	83.8	83.8	11,782.4	11,981.4	135.0	135.0	161,004.7	157,964.9
Delaware	1,512.0	1,512.0	311.0	311.0	876.9	876.0	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,359.0	3,358.1
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	27,517.6	26,245.6	9,117.2	7,481.4	2,893.3	3,034.7	9,984.0	10,591.0	0.0	0.0	5,844.9	5,936.9	0.0	0.0	55,357.0	53,289.6
Georgia	7,953.2	7,953.2	7,840.0	7,857.0	789.4	789.4	9,353.5	9,508.5	83.8	83.8	937.0	999.0	0.0	0.0	26,956.9	27,190.9
Maryland	250.0	250.0	1,581.0	1,581.0	1,415.8	1,489.8	4,712.0	4,712.0	0.0	0.0	1,597.9	1,648.9	0.0	0.0	9,556.7	9,681.7
North Carolina	4,766.0	4,766.0	6,049.7	6,049.7	0.0	0.0	10,802.8	10,802.8	0.0	0.0	402.8	402.8	0.0	0.0	22,021.3	22,021.3
South Carolina	2,409.0	2,409.0	2,855.6	2,855.6	296.0	298.2	5,547.0	5,547.0	0.0	0.0	525.4	525.4	0.0	0.0	11,633.0	11,635.2
Virginia	6,857.5	5,414.4	3,894.1	3,894.1	583.3	584.7	4,264.3	4,379.3	0.0	0.0	2,349.3	2,343.3	0.0	0.0	17,948.5	16,615.8
West Virginia	0.0	0.0	1,071.3	1,071.3	123.0	0.0	12,958.0	13,081.0	0.0	0.0	11.0	11.0	0.0	0.0	14,163.3	14,163.3
East South Central	19,040.8	19,040.8	13,003.3	13,003.3	4,055.0	3,887.0	29,432.4	31,025.4	0.0	0.0	207.0	217.0	99.8	99.8	65,838.3	67,273.3
Alabama	9,397.8	9,397.8	2,530.6	2,530.6	636.3	636.3	7,507.4	8,691.4	0.0	0.0	42.6	42.6	99.8	99.8	20,214.5	21,398.5
Kentucky	663.3	663.3	4,976.6	4,976.6	260.0	0.0	13,027.7	13,436.7	0.0	0.0	76.9	76.9	0.0	0.0	19,004.5	19,153.5
Mississippi	7,576.7	7,576.7	1,718.9	1,718.9	3,155.5	3,247.5	1,820.0	1,820.0	0.0	0.0	44.3	44.3	0.0	0.0	14,315.4	14,407.4
Tennessee	1,403.0	1,403.0	3,777.2	3,777.2	3.2	3.2	7,077.3	7,077.3	0.0	0.0	43.2	53.2	0.0	0.0	12,303.9	12,313.9
West South Central	58,971.1	58,937.1	13,365.9	12,809.9	33,048.7	34,865.6	36,432.5	37,420.5	959.3	959.3	181.3	181.3	659.8	659.8	143,618.6	145,833.5
Arkansas	4,602.9	4,602.9	702.8	725.8	816.3	816.3	5,122.4	5,122.4	0.0	0.0	12.2	12.2	0.0	0.0	11,256.6	11,279.6
Louisiana	7,521.4	7,525.4	2,359.1	2,358.1	7,145.0	9,057.6	2,855.1	2,855.1	895.5	895.5	45.5	45.5	407.4	407.4	21,229.0	23,144.6
Oklahoma	6,720.2	6,720.2	1,292.2	1,292.2	5,264.9	5,222.1	4,866.5	5,326.5	0.0	0.0	74.4	74.4	0.0	0.0	18,218.2	18,635.4
Texas	40,126.6	40,088.6	9,011.8	8,433.8	19,822.5	19,769.6	23,588.5	24,116.5	63.8	63.8	49.2	49.2	252.4	252.4	92,914.8	92,773.9
Mountain	22,476.9	22,487.3	8,963.6	8,926.6	3,201.9	3,178.7	28,896.6	28,942.6	52.0	52.0	370.8	370.8	111.6	111.6	64,073.4	64,069.6
Arizona	9,866.7	9,866.7	2,367.6	2,367.6	1,147.6	1,147.6	5,910.0	5,910.0	0.0	0.0	90.5	90.5	0.0	0.0	19,382.4	19,382.4
Colorado	3,240.5	3,240.5	2,572.3	2,535.3	329.0	329.0	5,043.8	5,089.8	0.0	0.0	168.4	168.4	0.0	0.0	11,354.0	11,363.0
Idaho	558.1	568.5	562.1	562.1	4.3	4.3	17.2	17.2	0.0	0.0	5.4	5.4	0.0	0.0	1,147.1	1,157.5
Montana	0.0	0.0	321.6	321.6	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	2,722.2
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	1,469.0	1,080.6	1,080.6	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	6,936.9
Utah	1,830.0	1,830.0	520.2	520.2	335.4	330.4	4,754.0	4,754.0	0.0	0.0	27.8	27.8	0.0	0.0	7,467.4	7,462.4
Wyoming	94.0	94.0	153.6	153.6	12.9	12.9	6,410.1	6,410.1	0.0	0.0	5.8	5.8	110.1	110.1	6,786.5	6,786.5
Pacific Contiguous	26,061.0	25,151.4	11,849.7	11,447.0	10,311.5	11,890.1	2,015.0	2,015.0	17.0	17.0	422.3	422.3	209.3	209.3	50,885.8	51,152.1
California	19,960.9	19,571.3	10,954.5	10,551.8	10,059.5	11,638.1	90.0	90.0	17.0	17.0	407.1	407.1	209.3	209.3	41,698.3	42,484.6
Oregon	3,429.6	2,916.6	133.8	133.8	224.4	224.4	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	4,372.8	3,859.8
Washington	2,670.5	2,663.5	761.4	761.4	27.6	27.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,814.7	4,807.7
Pacific Noncontiguous	418.0	418.0	654.3	654.3	175.0	175.0	333.8	283.8	0.0	0.0	2,591.5	2,569.9	9.6	9.6	4,182.2	4,110.6
Alaska	418.0	418.0	654.3	654.3	175.0	175.0	153.8	103.8	0.0	0.0	723.9	702.3	0.0	0.0	2,125.0	2,053.4
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,867.6	1,867.6	9.6	9.6	2,057.2	2,057.2
U.S. Total	239,519.2	234,018.4	126,747.1	123,585.5	80,691.3	81,821.5	270,060.9	279,719.9	1,540.3	1,744.3	34,857.6	35,086.0	2,497.2	2,500.4	755,913.6	758,476.0

NM = Not meaningful due to large relative standard error.
Values for 2015 are final. Values for 2016 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, Month, and Year

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	40577	American Mun Power-Ohio, Inc	Electric Utility	Cannelton Hydroelectric Plant	KY	57399	CG1	29.3	Conventional Hydroelectric	WAT	HY
2016	1	40577	American Mun Power-Ohio, Inc	Electric Utility	Willow Island Hydroelectric Plant	WV	57401	WIG1	22.0	Conventional Hydroelectric	WAT	HY
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	60428	Green City Recovery, LLC	IPP	Green City Recovery, LLC	KY	60703	1	1.0	Landfill Gas	LFG	IC
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	60183	SolNCPower10, LLC	IPP	Hertford Solar Farm	NC	60384	HERT	5.0	Solar Photovoltaic	SUN	PV
2016	1	60163	Soltage LLC	IPP	West Brookfield Solar, LLC	MA	60644	WBRK	1.4	Solar Photovoltaic	SUN	PV
2016	1	58674	Sonne One, LLC	IPP	Sonne One	NC	58782	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	1	60212	South Winston Farm, LLC	IPP	South Winston Farm, LLC	NC	60409	SWFPV	5.2	Solar Photovoltaic	SUN	PV
2016	1	17650	Southern Power Co	IPP	Stateline Solar	CA	58646	STL3	37.9	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	1	60394	Willey Battery Utility, LLC	IPP	Willey Battery Utility	OH	60660	WBU	6.0	Batteries	MWH	BA
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	57170	EDF Renewable Asset Holdings, Inc.	IPP	McHenry Battery Storage	IL	60656	MCH1	19.8	Batteries	MWH	BA
2016	2	16064	Graphic Packaging International	Industrial	Plant 31 Paper Mill	LA	50028	GEN7	32.0	Natural Gas Fired Combined Cycle	NG	CC
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	56997	Marina Energy LLC	IPP	Longview Solar	MD	60735	PV1		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	60295	University Of Arkansas	Commercial	UA Central Utility Plant	AR	60536	TRBN1	5.2	Natural Gas Fired Combustion Turbine	NG	GT
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	60250	DG Bethlehem Solar, LLC	IPP	Bethlehem - East	NY	60477	BE	1.7	Solar Photovoltaic	SUN	PV
2016	3	60250	DG Bethlehem Solar, LLC	IPP	Bethlehem - West	NY	60478	BW	1.0	Solar Photovoltaic	SUN	PV
2016	3	60054	Duke Energy Florida Solar Solutions	Electric Utility	Walt Disney World Solar Facility	FL	59973	WDS1	4.9	Solar Photovoltaic	SUN	PV
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	59735	Enerparc CA2, LLC	IPP	Gruber Solar Center	CA	60812	ECA01	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	59462	Heelstone Energy Holdings, LLC	IPP	ZV Solar 3, LLC	NC	60549	ZV3	4.9	Solar Photovoltaic	SUN	PV
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	56997	Marina Energy LLC	IPP	Howell Solar	NJ	60728	PV1		Solar Photovoltaic	SUN	PV
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	60573	Oak Leaf Solar V LLC	IPP	Shakopee Met Council WTP	MN	60919	SHAK	1.3	Solar Photovoltaic	SUN	PV
2016	3	60161	Snow Camp, LLC	IPP	Snow Camp Solar, LLC	NC	60367	SCSPV	5.2	Solar Photovoltaic	SUN	PV
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	60474	Vanguard Energy Partners, LLC	IPP	Goya Foods, Inc- Secaucus Solar	NJ	60840	PV1	1.6	Solar Photovoltaic	SUN	PV
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

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

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	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
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	56997	Marina Energy LLC	IPP	Raritan Solar	NJ	60729	PV1		Solar Photovoltaic	SUN	PV
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	60211	Nash 97 Solar, LLC	IPP	Nash 97 Solar, LLC	NC	60408	97PV	5.2	Solar Photovoltaic	SUN	PV
2016	4	59916	Owen Solar LLC	IPP	Owen Solar	NC	58742	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	4	14289	Ozarks Electric Coop Corp - (AR)	Electric Utility	Ozarks Natural Energy	AR	60924	GEN1	1.0	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	MWH	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	STL5	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	60342	Wadesboro Farm 3, LLC	IPP	Wadesboro Farm 3	NC	60576	1	5.0	Solar Photovoltaic	SUN	PV
2016	4	20065	Walton Electric Member Corp	Electric Utility	Pleasant Valley Solar	GA	60586	PV01	2.5	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	60281	Altus Power America Management, LLC	IPP	Rail Trail	MA	60492	PV1	2.0	Solar Photovoltaic	SUN	PV
2016	5	60281	Altus Power America Management, LLC	IPP	Rising Paper	MA	60493	1	2.5	Solar Photovoltaic	SUN	PV
2016	5	60444	Argonne National Laboratory	Electric CHP	Argonne National Laboratory CHP	IL	60742	CHP	4.7	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	59359	BHE Renewables, LLC	IPP	Marshall Wind Farm	KS	59084	RPMA	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	60396	Constellation New Energy Inc.	IPP	Havre de Grace II - E at Perryman	MD	60708	PV1	1.4	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	49942	Eagle Point Power Generation LLC	IPP	Eagle Point Power Generation	NJ	50561	STG2	26.8	Natural Gas Fired Combined Cycle	NG	CA
2016	5	58135	Ecos Energy LLC	IPP	Sudbury Solar	VT	60344	SUD	2.0	Solar Photovoltaic	SUN	PV
2016	5	5701	El 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	6862	Green Mountain Storage, LLC	IPP	Green Mountain Storage, LLC	PA	55370	BGM	10.5	Batteries	MWH	BA
2016	5	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	SOLAR	10.0	Solar Photovoltaic	SUN	PV
2016	5	58822	MC Power Companies Inc	IPP	Rolla Solar Farm (MO)	MO	60705	RSF1	2.8	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

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

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	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	40575	Utah Associated Mun Power Sys	Electric Utility	Veyo Heat Recovery Project	UT	60421	WHR1	8.4	All Other	WH	ST
2016	5	60067	Westside Assets LLC	IPP	Westside Solar Power PV1	CA	60275	WSPV1	2.0	Solar Photovoltaic	SUN	PV
2016	6	60571	AEP Onsite Partners	IPP	Clyde Solar Array	OH	60923	PV1	2.2	Solar Photovoltaic	SUN	PV
2016	6	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	5A	0.8	Petroleum Liquids	DFO	IC
2016	6	40577	American Mun Power-Ohio, Inc	Electric Utility	Cannelton Hydroelectric Plant	KY	57399	CG3	29.3	Conventional Hydroelectric	WAT	HY
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC
2016	6	58695	Coronal Development Services	IPP	Holdrege Solar Center	NE	59713	HDSC	4.0	Solar Photovoltaic	SUN	PV
2016	6	59263	Fresh Air Energy XVIII, LLC	IPP	Meadows PV 1	NC	59513	MEAD1	20.0	Solar Photovoltaic	SUN	PV
2016	6	59776	Frontier Solar, LLC	IPP	Frontier Solar LLC	CA	60039	FTRS	20.0	Solar Photovoltaic	SUN	PV
2016	6	7140	Georgia Power Co	Electric Utility	Tri-County Solar Facility	GA	60544	PV1	1.0	Solar Photovoltaic	SUN	PV
2016	6	60567	Green Energy Machine, LLC	IPP	Green Energy Machine	IA	60911	GRN	1.7	Onshore Wind Turbine	WND	WT
2016	6	9273	Indianapolis Power & Light Co	Electric Utility	Harding Street	IN	990	BAT1	20.0	Batteries	MWH	BA
2016	6	49893	Invenergy Services LLC	IPP	Gunsight Mountain Wind Energy LLC	TX	56776	1	120.0	Onshore Wind Turbine	WND	WT
2016	6	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Greenwood (MO)	MO	6074	5	3.0	Solar Photovoltaic	SUN	PV
2016	6	60344	Kojak Farm, LLC	IPP	Kojak Farm	NC	60578	1	5.0	Solar Photovoltaic	SUN	PV
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
2016	6	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK3	39.6	Solar Photovoltaic	SUN	PV
2016	6	12397	Metropolitan Water District of S CA	Electric Utility	Weymouth Solar Plant	CA	60255	1	2.0	Solar Photovoltaic	SUN	PV
2016	6	12397	Metropolitan Water District of S CA	Electric Utility	Weymouth Solar Plant	CA	60255	2	1.0	Solar Photovoltaic	SUN	PV
2016	6	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN1	376.0	Natural Gas Fired Combined Cycle	NG	CS
2016	6	16179	Rochelle Municipal Utilities	Electric Utility	South Main Street	IL	961	16	1.8	Petroleum Liquids	DFO	IC
2016	6	16179	Rochelle Municipal Utilities	Electric Utility	South Main Street	IL	961	17	1.8	Petroleum Liquids	DFO	IC
2016	6	16179	Rochelle Municipal Utilities	Electric Utility	South Main Street	IL	961	18	1.8	Petroleum Liquids	DFO	IC
2016	6	59404	Seaboard Solar LLC	IPP	Seaboard Solar LLC	NC	59643	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	6	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK8	16.2	Solar Photovoltaic	SUN	PV
2016	6	60206	Solar Star California XL, LLC	IPP	RCWD PV Project	CA	60426	RCWD	1.9	Solar Photovoltaic	SUN	PV
2016	6	59837	South Plains Wind Energy II, LLC	IPP	South Plains II	TX	60087	SPII	300.0	Onshore Wind Turbine	WND	WT
2016	6	17650	Southern Power Co	IPP	Stateline Solar	CA	58646	STL6	37.9	Solar Photovoltaic	SUN	PV
2016	6	58661	Sustainable Power Group, LLC	IPP	Leavenworth Greenworks LLC	NY	59276	LEAVG	9.5	Solar Photovoltaic	SUN	PV
2016	6	58661	Sustainable Power Group, LLC	IPP	SEPV Mojave West	CA	59740	SPVMW	20.0	Solar Photovoltaic	SUN	PV
2016	6	59328	Tart Farm, LLC	IPP	Tart Farm	NC	59583	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	6	18642	Tennessee Valley Authority	Electric Utility	Watts Bar Nuclear Plant	TN	7722	2	1,122.0	Nuclear	NUC	ST
2016	6	60341	Wadesboro Farm 2, LLC	IPP	Wadesboro Farm 2	NC	60575	1	5.0	Solar Photovoltaic	SUN	PV
2016	6	20910	Wolverine Power Supply Coop	Electric Utility	Alpine Power Plant	MI	59926	AI1	202.6	Natural Gas Fired Combustion Turbine	NG	GT
2016	7	59273	62SK 8me, LLC	IPP	Springbok Solar Farm 1	CA	59532	SB1	100.0	Solar Photovoltaic	SUN	PV
2016	7	59050	Algonquin Power Co	IPP	Odell Wind Farm	MN	58657	1	200.0	Onshore Wind Turbine	WND	WT
2016	7	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK4	33.2	Solar Photovoltaic	SUN	PV
2016	7	60204	CB Bladen Solar, LLC	IPP	CB Bladen Solar, LLC	NC	60402	CBPV	5.2	Solar Photovoltaic	SUN	PV
2016	7	57044	Constellation Solar New Jersey, LLC	IPP	NHA at Mansfield NJ	NJ	60378	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	7	58468	Dominion Renewable Energy	IPP	Enterprise Solar, LLC	UT	59386	ENTS1	80.0	Solar Photovoltaic	SUN	PV
2016	7	59765	Eight Flags Energy LLC	Electric CHP	Eight Flags Energy	FL	60025	01	19.8	Natural Gas Fired Combustion Turbine	NG	GT
2016	7	59939	Floyd Solar, LLC	IPP	Floyd Solar, LLC	NC	60147	FLS1	6.5	Solar Photovoltaic	SUN	PV
2016	7	60338	HQC Rock River Solar Power Generation Station LLC	IPP	HQC Rock River Solar Power Gen Station	WI	60573	PV1	2.1	Solar Photovoltaic	SUN	PV
2016	7	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	4	214.4	Natural Gas Fired Combined Cycle	NG	CT
2016	7	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	5	107.2	Natural Gas Fired Combined Cycle	NG	CA
2016	7	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	6	105.8	Natural Gas Fired Combustion Turbine	NG	GT
2016	7	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	7	105.8	Natural Gas Fired Combustion Turbine	NG	GT
2016	7	59120	Los Vientos Windpower IV, LLC	IPP	Los Vientos Windpower IV	TX	59321	GEN1	200.0	Onshore Wind Turbine	WND	WT
2016	7	56997	Marina Energy LLC	IPP	Church Hill	MD	60737	PV1		Solar Photovoltaic	SUN	PV
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U4J16	1.2	Landfill Gas	LFG	IC
2016	7	60145	NRG Solar Las Vegas MB 2	IPP	NRG Solar Las Vegas MB 2, LLC	NV	60350	LVMB2	1.5	Solar Photovoltaic	SUN	PV
2016	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	6A	122.0	Conventional Hydroelectric	WAT	HY
2016	7	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CS
2016	7	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CS
2016	7	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CS
2016	7	59016	Passadumkeag Windpark LLC	IPP	Passadumkeag Windpark LLC	ME	59222	Q357	39.9	Onshore Wind Turbine	WND	WT
2016	7	15248	Portland General Electric Co	Electric Utility	Carty Generating Station	OR	58503	GEN1	300.0	Natural Gas Fired Combined Cycle	NG	CT
2016	7	15248	Portland General Electric Co	Electric Utility	Carty Generating Station	OR	58503	GEN2	200.0	Natural Gas Fired Combined Cycle	NG	CA
2016	7	60068	Red Horse III	IPP	Red Horse III	AZ	60285	RH3	30.0	Solar Photovoltaic	SUN	PV
2016	7	57313	SolarCity Corporation	IPP	Chesapeake College	MD	60465	PV1	1.5	Solar Photovoltaic	SUN	PV
2016	7	57313	SolarCity Corporation	IPP	Jackson Board of Education-Liberty HS	NJ	60113	PV1	1.2	Solar Photovoltaic	SUN	PV
2016	7	57313	SolarCity Corporation	IPP	Oregon Convention Center	OR	60112	PV1	1.4	Solar Photovoltaic	SUN	PV
2016	7	17650	Southern Power Co	IPP	RE Tranquillity	CA	59939	TQ	205.3	Solar Photovoltaic	SUN	PV
2016	7	17650	Southern Power Co	IPP	Stateline Solar	CA	58646	STL7	37.9	Solar Photovoltaic	SUN	PV
2016	7	60531	Standard Solar	IPP	Stafford MS Ground Mount	CT	60880	MS1	1.0	Solar Photovoltaic	SUN	PV
2016	7	60531	Standard Solar	IPP	Stafford MS Ground Mount	CT	60880	MS2	1.0	Solar Photovoltaic	SUN	PV
2016	7	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	1	18.6	Natural Gas Internal Combustion Engine	NG	IC
2016	7	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	2	18.6	Natural Gas Internal Combustion Engine	NG	IC
2016	7	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	3	18.6	Natural Gas Internal Combustion Engine	NG	IC
2016	7	58661	Sustainable Power Group, LLC	IPP	Summer Solar LLC	CA	60280	SUMSL	20.0	Solar Photovoltaic	SUN	PV
2016	7	59598	Tooele Army Depot	IPP	Tooele Wind Turbine	UT	59817	GEN03	1.7	Onshore Wind Turbine	WND	WT
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-1	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-2	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-3	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-4	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-5	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-6	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-7	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-8	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-9	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV10	0.5	Solar Photovoltaic	SUN	PV
2016	7	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-1	0.5	Solar Photovoltaic	SUN	PV
2016	7	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-2	0.5	Solar Photovoltaic	SUN	PV
2016	7	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-3	0.5	Solar Photovoltaic	SUN	PV
2016	7	60237	Whitakers Farm, LLC	IPP	Whitakers Farm (Fisher Rd)	NC	60438	1	3.4	Solar Photovoltaic	SUN	PV
2016	7	59831	White Oak Solar, LLC	IPP	White Oak Solar, LLC	GA	60082	WHTOK	76.5	Solar Photovoltaic	SUN	PV
2016	7	59803	White Pine Solar, LLC	IPP	White Pine Solar, LLC	GA	60064	WHTPN	101.2	Solar Photovoltaic	SUN	PV
2016	7	60234	Williamston West Farm, LLC	IPP	Williamston West Farm, LLC	NC	60484	1	4.9	Solar Photovoltaic	SUN	PV
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (WI)	WI	59836	11	4.6	Conventional Hydroelectric	WAT	HY
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (WI)	WI	59836	12	4.6	Conventional Hydroelectric	WAT	HY

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

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	7	20910	Wolverine Power Supply Coop	Electric Utility	Alpine Power Plant	MI	59926	AI2	202.6	Natural Gas Fired Combustion Turbine	NG	GT
2016	8	60281	Altus Power America Management, LLC	IPP	Shirley Water	MA	60498	1	2.0	Solar Photovoltaic	SUN	PV
2016	8	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK5	33.9	Solar Photovoltaic	SUN	PV
2016	8	59903	Candace Solar LLC	IPP	Candace Solar	NC	59499	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	8	58519	Clean Energy Collective LLC	IPP	CPS 1	TX	60472	CPS1	1.0	Solar Photovoltaic	SUN	PV
2016	8	59938	Cohen Farm Solar, LLC	IPP	Cohen Farm Solar, LLC	NC	60146	FLS1	6.5	Solar Photovoltaic	SUN	PV
2016	8	56769	Consolidated Edison Development Inc.	IPP	CED Westfield Solar, LLC	MA	60274	WFMA	2.0	Solar Photovoltaic	SUN	PV
2016	8	56769	Consolidated Edison Development Inc.	IPP	OCI Alamo 7 LLC	TX	59207	OCIA7	100.0	Solar Photovoltaic	SUN	PV
2016	8	57365	Consolidated Edison Solutions Inc	IPP	Future Generation Wind	MA	59622	FGMA	7.9	Onshore Wind Turbine	WND	WT
2016	8	4254	Consumers Energy Co	Electric Utility	Western Michigan Solar Gardens	MI	60117	1	1.0	Solar Photovoltaic	SUN	PV
2016	8	58468	Dominion Renewable Energy	IPP	Escalante Solar I, LLC	UT	59387	ESCS1	80.0	Solar Photovoltaic	SUN	PV
2016	8	58468	Dominion Renewable Energy	IPP	Escalante Solar II, LLC	UT	59388	ESCS2	80.0	Solar Photovoltaic	SUN	PV
2016	8	58468	Dominion Renewable Energy	IPP	Escalante Solar III, LLC	UT	59389	ESCS3	80.0	Solar Photovoltaic	SUN	PV
2016	8	58468	Dominion Renewable Energy	IPP	Iron Springs Solar	UT	59941	ISS	80.0	Solar Photovoltaic	SUN	PV
2016	8	6455	Duke Energy Florida, Inc	Electric Utility	Perry Solar Facility	FL	60071	XXXXX	5.1	Solar Photovoltaic	SUN	PV
2016	8	59745	First Solar Asset Management	IPP	Rancho Seco Solar, LLC	CA	60226	GEN01	10.8	Solar Photovoltaic	SUN	PV
2016	8	7570	Great River Energy	Electric Utility	Dickinson Solar Array	MN	60652	PV1	2.3	Solar Photovoltaic	SUN	PV
2016	8	60235	ID Solar 1, LLC	IPP	ID Solar	ID	60445	INV1	40.0	Solar Photovoltaic	SUN	PV
2016	8	9324	Indiana Michigan Power Co	Electric Utility	OlivePV	IN	59854	OLPV1	5.0	Solar Photovoltaic	SUN	PV
2016	8	9324	Indiana Michigan Power Co	Electric Utility	Twin Branch PV	IN	59861	TBPV1	2.6	Solar Photovoltaic	SUN	PV
2016	8	59897	LKL Goldfinch, LLC	IPP	Goldfinch	FL	60124	GFNCH	3.0	Solar Photovoltaic	SUN	PV
2016	8	58822	MC Power Companies Inc	IPP	Waynesville Solar Farm (MO)	MO	60706	WSF1	2.8	Solar Photovoltaic	SUN	PV
2016	8	60190	MC1 Solar Farm, LLC	IPP	MC1 Solar	NC	60395	MC1PV	5.0	Solar Photovoltaic	SUN	PV
2016	8	60213	Modlin Solar, LLC	IPP	Modlin Solar Farm	NC	60417	MSFPV	4.9	Solar Photovoltaic	SUN	PV
2016	8	9436	Mosaic Phosphates Co.	Industrial	Mosaic Phosphates Uncle Sam	LA	10198	GEN3	15.0	All Other	WH	ST
2016	8	58489	OCI Solar Power	IPP	OCI Alamo Solar I	TX	58537	ASTRO	1.0	Batteries	MWH	BA
2016	8	58838	Parrey, LLC	IPP	Henrietta Solar Project	CA	58975	PV1	100.0	Solar Photovoltaic	SUN	PV
2016	8	60191	RE Barren Ridge 1, LLC	IPP	RE Barren Ridge 1	CA	60389	REBR1	60.0	Solar Photovoltaic	SUN	PV
2016	8	58968	RE Mustang LLC	IPP	RE Mustang LLC	CA	59150	PV1	100.0	Solar Photovoltaic	SUN	PV
2016	8	60280	River Road Solar, LLC	IPP	River Road Solar, LLC	NC	60487	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	8	59662	Riverside Fuel Cell, LLC	Commercial	Riverside RWQCP Fuel Cell	CA	59877	MB20	1.4	Other Waste Biomass	OBG	FC
2016	8	60209	Roswell Solar, LLC	IPP	Roswell Solar, LLC	NM	60406	RSPV	70.0	Solar Photovoltaic	SUN	PV
2016	8	57313	SolarCity Corporation	IPP	The Clorox Company	MD	60461	PV1	1.6	Solar Photovoltaic	SUN	PV
2016	8	57313	SolarCity Corporation	IPP	Wye Mills VNEM	MD	60604	PV1	10.0	Solar Photovoltaic	SUN	PV
2016	8	59773	SunE Solar XVI Lessor, LLC	IPP	SunE Rochester	CA	60032	RCHTR	1.0	Solar Photovoltaic	SUN	PV
2016	8	58661	Sustainable Power Group, LLC	IPP	Antelope Big Sky Ranch	CA	60279	ABSR	20.0	Solar Photovoltaic	SUN	PV
2016	8	59963	TWE New Bern Solar Project, LLC	IPP	TWE New Bern Solar Project, LLC	NC	60191	FLS1	4.0	Solar Photovoltaic	SUN	PV
2016	8	60401	Tannery Road Solar, LLC	Commercial	Tannery Road Landfill	NY	60677	TRSP	2.0	Solar Photovoltaic	SUN	PV
2016	8	59108	WED Coventry Four, LLC	IPP	WED Coventry 4	RI	59306	WEDC4	1.5	Onshore Wind Turbine	WND	WT
2016	8	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6	1.5	Onshore Wind Turbine	WND	WT
2016	8	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6A	1.5	Onshore Wind Turbine	WND	WT
2016	8	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6B	1.5	Onshore Wind Turbine	WND	WT
2016	8	59107	WED Coventry Three, LLC	IPP	WED Coventry 3	RI	59305	WEDC3	1.5	Onshore Wind Turbine	WND	WT
2016	8	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2	1.5	Onshore Wind Turbine	WND	WT
2016	8	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2A	1.5	Onshore Wind Turbine	WND	WT
2016	8	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2B	1.5	Onshore Wind Turbine	WND	WT
2016	8	60156	White Farm Solar, LLC	IPP	White Farm Solar, LLC	NC	60363	WFSPV	5.2	Solar Photovoltaic	SUN	PV
2016	9	59616	63SU 8me, LLC	IPP	Springbok Solar Farm 2	CA	59840	SB2	155.0	Solar Photovoltaic	SUN	PV
2016	9	772	Archer Daniels Midland Co	Industrial	Archer Daniels Midland Cedar Rapids	IA	10864	GEN7	35.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	9	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK6	32.0	Solar Photovoltaic	SUN	PV
2016	9	60480	Catawba Solar LLC	IPP	Catawba Solar LLC	NC	60800	PV1	2.0	Solar Photovoltaic	SUN	PV
2016	9	58519	Clean Energy Collective LLC	IPP	Carver MA 1	MA	60442	CMA1	2.0	Solar Photovoltaic	SUN	PV
2016	9	58519	Clean Energy Collective LLC	IPP	Wareham MA 1	MA	60443	WMA1	2.0	Solar Photovoltaic	SUN	PV
2016	9	58519	Clean Energy Collective LLC	IPP	Westport MA 1	MA	60473	WPMA1	1.3	Solar Photovoltaic	SUN	PV
2016	9	58519	Clean Energy Collective LLC	IPP	Westport MA 2	MA	60476	WPMA2	1.2	Solar Photovoltaic	SUN	PV
2016	9	59429	Comanche LLC	IPP	Comanche Solar	CO	59656	COMCH	120.0	Solar Photovoltaic	SUN	PV
2016	9	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV02	41.8	Solar Photovoltaic	SUN	PV
2016	9	58695	Coronal Development Services	IPP	County Home Solar Center, LLC	NC	60199	CHSC1	2.0	Solar Photovoltaic	SUN	PV
2016	9	58695	Coronal Development Services	IPP	Grove Solar Center, LLC	OR	60330	GSC1	6.0	Solar Photovoltaic	SUN	PV
2016	9	58695	Coronal Development Services	IPP	Mariposa Solar Center LLC	NC	59162	MSC 1	5.0	Solar Photovoltaic	SUN	PV
2016	9	58695	Coronal Development Services	IPP	Open Range Solar Center, LLC	OR	60332	ORSC1	10.0	Solar Photovoltaic	SUN	PV
2016	9	58468	Dominion Renewable Energy	IPP	Granite Mountain Solar East	UT	59946	GMSE	80.0	Solar Photovoltaic	SUN	PV
2016	9	58468	Dominion Renewable Energy	IPP	Granite Mountain Solar West	UT	59945	GMSW	50.4	Solar Photovoltaic	SUN	PV
2016	9	5701	El Paso Electric Co	Electric Utility	Montana Power Station	TX	58562	GT-4	100.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	9	59258	Five Points Solar Park, LLC	IPP	Five Points Solar Park	CA	59523	FRFSP	60.0	Solar Photovoltaic	SUN	PV
2016	9	60158	Flint Hill Solar, LLC	IPP	Flint Hill Solar, LLC	NC	60370	FHSPV	5.2	Solar Photovoltaic	SUN	PV
2016	9	57104	Golden Springs Development Company LLC	IPP	Building G	CA	60153	BLDGG	1.2	Solar Photovoltaic	SUN	PV
2016	9	57104	Golden Springs Development Company LLC	IPP	Dulles	CA	60182	DULLE	2.0	Solar Photovoltaic	SUN	PV
2016	9	60215	Hardison Farm Solar, LLC	IPP	Hardison Farm Solar, LLC	NC	60415	HFSPV	5.2	Solar Photovoltaic	SUN	PV
2016	9	59462	Heelstone Energy Holdings, LLC	IPP	Granger	CA	60516	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	9	9267	Hoosier Energy R E C, Inc	Electric Utility	Henryville Solar RES	IN	59986	PV1	1.1	Solar Photovoltaic	SUN	PV
2016	9	9267	Hoosier Energy R E C, Inc	Electric Utility	New Haven Solar RES	IN	59983	PV1	1.1	Solar Photovoltaic	SUN	PV
2016	9	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Huntingburg Solar Park	IN	60251	SHUNT	2.0	Solar Photovoltaic	SUN	PV
2016	9	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Washington Solar Park	IN	60252	SWASH	4.0	Solar Photovoltaic	SUN	PV
2016	9	60446	KDC Solar Bergen 1	IPP	Seabrook Village	NJ	60747	07724	3.1	Solar Photovoltaic	SUN	PV
2016	9	59245	Lanier Solar	IPP	Lanier Solar	NC	59486	LANIE	4.9	Solar Photovoltaic	SUN	PV
2016	9	60214	Maxton Solar, LLC	IPP	Maxton Solar, LLC	NC	60416	MSPV	4.9	Solar Photovoltaic	SUN	PV
2016	9	60345	Meriwether Farm, LLC	IPP	Meriwether Farm	NC	60579	1	5.0	Solar Photovoltaic	SUN	PV
2016	9	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF	28.6	Onshore Wind Turbine	WND	WT
2016	9	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF	61.9	Onshore Wind Turbine	WND	WT
2016	9	56990	NJR Clean Energy Ventures Corporation	IPP	Bernards Solar	NJ	60437	BERNS	2.9	Solar Photovoltaic	SUN	PV
2016	9	60185	Nicolis, LLC	IPP	Nicolis Solar PV Plant	CA	59600	GEN1	19.0	Solar Photovoltaic	SUN	PV
2016	9	60408	Pierre Solar	IPP	Pierre Solar	SD	60686	PIERS	1.0	Solar Photovoltaic	SUN	PV
2016	9	15500	Puget Sound Energy Inc	Electric Utility	Glacier Battery Storage	WA	60444	GLA	2.0	Batteries	MWH	BA
2016	9	59790	River Bend Solar, LLC	IPP	River Bend Solar, LLC	AL	60058	RVRBN	75.0	Solar Photovoltaic	SUN	PV
2016	9	60263	SR Skylark B, LLC	IPP	SR Skylark B	CO	60497	SKY B	2.0	Solar Photovoltaic	SUN	PV
2016	9	59605	South Louisburg Solar LLC	IPP	South Louisburg Solar	NC	59825	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	9	17650	Southern Power Co	IPP	RE Garland A	CA	60386	PV1	20.0	Solar Photovoltaic	SUN	PV
2016	9	60045	Stainback Solar Farm, LLC	IPP	Stainback Solar Farm	NC	60257	INV1	5.0	Solar Photovoltaic	SUN	PV
2016	9	60216	Sullivan Solar, LLC	IPP	Sullivan Solar, LLC	IN	60410	SULPV	5.2	Solar Photovoltaic	SUN	PV
2016	9	60184	Tropico, LLC	IPP	Tropico Solar PV Plant	CA	59599	GEN1	13.0	Solar Photovoltaic	SUN	PV
2016	9	60142	Wortham Solar Farm, LLC	IPP	Wortham Solar Farm	NC	60361	INV1	5.0	Solar Photovoltaic	SUN	PV
2016	10	60572	AlsoEnergy	IPP	Verwey-Hanford Dairy Digester #1	CA	60918	00003	1.0	Other Waste Biomass	OBG	IC
2016	10	60242	Athens Energy, LLC	IPP	Athens Energy	ME	60457	1	7.0	Wood/Wood Waste Biomass	WDS	OT
2016	10	57421	BayWa r.e Wind LLC	IPP	Chopin Wind LLC	OR	59076	WT1	10.0	Onshore Wind Turbine	WND	WT
2016	10	60143	Bison Solar LLC	IPP	Bison Solar LLC	CO	60351	BSPV1	30.0	Solar Photovoltaic	SUN	PV
2016	10	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK7	32.1	Solar Photovoltaic	SUN	PV
2016	10	60208	Chaves Solar LLC	IPP	Chaves Solar, LLC	NM	60405	CSPV	70.0	Solar Photovoltaic	SUN	PV
2016	10	60094	Clinton Battery Utility, LLC	IPP	Clinton Battery	OH	60297	1	10.0	Batteries	MWH	BA
2016	10	60510	Conergy Projects, Inc.	IPP	Curtis Hill Solar	MA	60851	PV1	1.6	Solar Photovoltaic	SUN	PV
2016	10	60510	Conergy Projects, Inc.	IPP	Depot Hill Solar	MA	60852	PV1	1.6	Solar Photovoltaic	SUN	PV
2016	10	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV01	51.8	Solar Photovoltaic	SUN	PV
2016	10	4329	Copper Valley Elec Assn, Inc	Electric Utility	Allison Creek Hydro	AK	58982	GEN1	6.5	Conventional Hydroelectric	WAT	HY
2016	10	58695	Coronal Development Services	IPP	Hyline Solar Center, LLC	OR	60331	HSC1	9.0	Solar Photovoltaic	SUN	PV
2016	10	60293	DG Colorado Solar, LLC	IPP	Clear Spring Ranch PV Project	CO	60511	PV1	10.0	Solar Photovoltaic	SUN	PV
2016	10	58468	Dominion Renewable Energy	IPP	Eastern Shore Solar, LLC	VA	60127	PV1	80.0	Solar Photovoltaic	SUN	PV
2016	10	58135	Ecos Energy LLC	IPP	Munro Valley Solar	CA	60412	MUN	4.0	Solar Photovoltaic	SUN	PV
2016	10	60375	Gainey Solar, LLC	IPP	Gainey Solar, LLC	NC	60633	PV1	2.0	Solar Photovoltaic	SUN	PV
2016	10	7140	Georgia Power Co	Electric Utility	Fort Gordon Solar Facility	GA	59863	1	30.0	Solar Photovoltaic	SUN	PV
2016	10	7140	Georgia Power Co	Electric Utility	Fort Stewart Solar Facility	GA	59865	1	30.0	Solar Photovoltaic	SUN	PV

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

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	10	57104	Golden Springs Development Company LLC	IPP	Freeway Springs	CA	60183	FSPRI	2.0	Solar Photovoltaic	SUN	PV
2016	10	7601	Green Mountain Power Corp	Electric Utility	GMP Solar - Richmond	VT	60547	PV1	1.9	Solar Photovoltaic	SUN	PV
2016	10	60279	Greenfield Wind, LLC	IPP	Greenfield Wind - MT	MT	60486	1	25.0	Onshore Wind Turbine	WND	WT
2016	10	60195	Groton Fuel Cell 1, LLC	Electric CHP	Pfizer Groton Fuel Cell	CT	60392	MM-24	2.8	Other Natural Gas	NG	FC
2016	10	60195	Groton Fuel Cell 1, LLC	Electric CHP	Pfizer Groton Fuel Cell	CT	60392	MM-25	2.8	Other Natural Gas	NG	FC
2016	10	60268	Hartz Solar LLC	IPP	North Bergen Solar	NJ	60806	PV1	1.7	Solar Photovoltaic	SUN	PV
2016	10	59462	Heelstone Energy Holdings, LLC	IPP	Cornwall Solar Center, LLC	NC	59663	CSC1	5.0	Solar Photovoltaic	SUN	PV
2016	10	57480	Heritage Garden Wind Farm I LLC	IPP	Big Turtle Wind Farm, LLC	MI	58891	BTWF2	29.4	Onshore Wind Turbine	WND	WT
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Ellettsville Solar RES	IN	59985	PV1	1.1	Solar Photovoltaic	SUN	PV
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Johnson Co. Solar RES	IN	59990	PV1	1.1	Solar Photovoltaic	SUN	PV
2016	10	60129	Horse Creek Wind, LLC	IPP	Horse Creek Wind Farm	TX	60339	HCWF	230.0	Onshore Wind Turbine	WND	WT
2016	10	9216	Imperial Irrigation District	Electric Utility	El Centro	CA	389	BESS	28.0	Batteries	MWH	BA
2016	10	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A1	0.3	Landfill Gas	LFG	IC
2016	10	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A2	0.3	Landfill Gas	LFG	IC
2016	10	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A3	0.3	Landfill Gas	LFG	IC
2016	10	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A4	0.3	Landfill Gas	LFG	IC
2016	10	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A5	0.3	Landfill Gas	LFG	IC
2016	10	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A6	0.3	Landfill Gas	LFG	IC
2016	10	49893	Invenergy Services LLC	IPP	Wake Wind Energy Center	TX	58766	1	257.0	Onshore Wind Turbine	WND	WT
2016	10	60447	KDC Solar GRQ LLC	IPP	Silvi Gibraltar Rock	NJ	60746	08502	2.5	Solar Photovoltaic	SUN	PV
2016	10	60449	KDC Solar PFI LLC	IPP	Pfizer Peapack Solar	NJ	60762	07934	6.2	Solar Photovoltaic	SUN	PV
2016	10	58815	KDC Solar RTC LLC	IPP	Delilah Road Landfill	NJ	58951	DRLS	8.5	Solar Photovoltaic	SUN	PV
2016	10	58815	KDC Solar RTC LLC	IPP	Seashore Solar	NJ	60767	08234	8.5	Solar Photovoltaic	SUN	PV
2016	10	59600	Mohave Sunrise Solar I, LLC	IPP	Mohave Electric at Fort Mohave	AZ	59819	PV2	15.2	Solar Photovoltaic	SUN	PV
2016	10	56990	NJR Clean Energy Ventures Corporation	IPP	Cedar Branch	NJ	60266	CEDAR	5.9	Solar Photovoltaic	SUN	PV
2016	10	60372	Perkins Solar LLC	IPP	Perkins Solar, LLC	NC	60629	PV1	2.0	Solar Photovoltaic	SUN	PV
2016	10	16380	RTC Properties Inc	Commercial	River Terminal Development Solar	NJ	60843	RTD5	0.4	Solar Photovoltaic	SUN	PV
2016	10	57313	SolarCity Corporation	IPP	BJ's Wholesale Club Inc Dist Center	NJ	60227	PV1	1.4	Solar Photovoltaic	SUN	PV
2016	10	17650	Southern Power Co	IPP	Taylor County Solar	GA	59897	1	148.0	Solar Photovoltaic	SUN	PV
2016	10	58661	Sustainable Power Group, LLC	IPP	Pioneer Wind Park, LLC	WY	60259	PWP1	80.0	Onshore Wind Turbine	WND	WT
2016	10	59105	WED Coventry One, LLC	IPP	WED Coventry 1	RI	59301	WEDC1	1.5	Onshore Wind Turbine	WND	WT
2016	11	213	Alaska Electric Light&Power Co	Electric Utility	Industrial Plant	AK	59793	15	22.8	Petroleum Liquids	DFO	GT
2016	11	57369	Apple, Inc	IPP	Bonnybrooke PV	AZ	60413	AZPV1	50.0	Solar Photovoltaic	SUN	PV
2016	11	60358	BC Solar	IPP	BC Solar	OR	60616	BCSLR	8.0	Solar Photovoltaic	SUN	PV
2016	11	56146	Black Hills/Colorado Elec.Util	Electric Utility	Peak View Wind Farm	CO	60143	WTG	60.8	Onshore Wind Turbine	WND	WT
2016	11	60148	Brady Wind, LLC	IPP	Brady Wind Energy Center	ND	60355	BWEC1	150.0	Onshore Wind Turbine	WND	WT
2016	11	3258	Central Iowa Power Cooperative	Electric Utility	Eastern Iowa Solar	IA	60876	EIS1	1.8	Solar Photovoltaic	SUN	PV
2016	11	58871	Citizens Enterprises Corporation	IPP	Old Midville Solar	GA	60741	OMD	19.7	Solar Photovoltaic	SUN	PV
2016	11	60404	Constellation Solar Arizona 2, LLC	IPP	Canyon Del Oro High School Solar	AZ	60685	CDO3	0.2	Solar Photovoltaic	SUN	PV
2016	11	60404	Constellation Solar Arizona 2, LLC	IPP	Canyon Del Oro High School Solar	AZ	60685	CDO4	0.2	Solar Photovoltaic	SUN	PV
2016	11	58695	Coronal Development Services	IPP	Railroad Solar Center, LLC	OR	60333	RSC1	4.5	Solar Photovoltaic	SUN	PV
2016	11	58695	Coronal Development Services	IPP	Thunderegg Solar Center, LLC	OR	60334	TSC1	10.0	Solar Photovoltaic	SUN	PV
2016	11	58695	Coronal Development Services	IPP	Vale Air Solar Center, LLC	OR	60335	VASC1	10.0	Solar Photovoltaic	SUN	PV
2016	11	60128	Electra Wind, LLC	IPP	Electra Wind Farm	TX	60338	EWF	230.0	Onshore Wind Turbine	WND	WT
2016	11	57104	Golden Springs Development Company LLC	IPP	Buidling L	CA	60154	BLDG1	1.0	Solar Photovoltaic	SUN	PV
2016	11	57104	Golden Springs Development Company LLC	IPP	Building F	CA	60151	BLDGF	1.3	Solar Photovoltaic	SUN	PV
2016	11	7601	Green Mountain Power Corp	Electric Utility	GMP Solar - Williston	VT	60875	GMPSW	4.7	Solar Photovoltaic	SUN	PV
2016	11	59462	Heelstone Energy Holdings, LLC	IPP	Cotten Farm, LLC	NC	60965	COT	4.9	Solar Photovoltaic	SUN	PV
2016	11	9324	Indiana Michigan Power Co	Electric Utility	Watervliet PV	MI	59853	WVPV1	4.6	Solar Photovoltaic	SUN	PV
2016	11	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B1	0.3	Landfill Gas	LFG	IC
2016	11	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B2	0.3	Landfill Gas	LFG	IC
2016	11	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B3	0.3	Landfill Gas	LFG	IC
2016	11	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B4	0.3	Landfill Gas	LFG	IC
2016	11	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B5	0.3	Landfill Gas	LFG	IC
2016	11	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B6	0.3	Landfill Gas	LFG	IC
2016	11	60199	Innovative Solar 65, LLC	IPP	Innovative Solar 65	NC	60398	FLS1	4.9	Solar Photovoltaic	SUN	PV
2016	11	60384	Javelina Wind Energy II, LLC	IPP	Javelina Wind Energy II, LLC	TX	60645	WJ21	200.0	Onshore Wind Turbine	WND	WT
2016	11	58849	Mariah del Este LLC	IPP	Mariah North	TX	59005	MAR1	230.4	Onshore Wind Turbine	WND	WT
2016	11	59691	Meadowbrook Solar Farm LLC	IPP	Meadowbrook Solar Farm	NC	59936	NB008	4.9	Solar Photovoltaic	SUN	PV
2016	11	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF4	27.6	Onshore Wind Turbine	WND	WT
2016	11	58589	Orbit Energy Charlotte	IPP	Orbit Energy Charlotte	NC	58638	1	5.2	Other Waste Biomass	OBG	IC
2016	11	60238	Pavant Solar II LLC	IPP	Pavant Solar II LLC	UT	60449	PSII	50.0	Solar Photovoltaic	SUN	PV
2016	11	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG1	97.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	11	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG2	97.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	11	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG3	97.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	11	17650	Southern Power Co	IPP	RE Garland	CA	60233	PV2	185.0	Solar Photovoltaic	SUN	PV
2016	11	17650	Southern Power Co	IPP	RE Roserock	TX	59994	ROSEK	160.0	Solar Photovoltaic	SUN	PV
2016	11	60529	Sutton Solar, LLC	IPP	Sutton Solar	MA	60878	54508	1.9	Solar Photovoltaic	SUN	PV
2016	11	60454	Williamston Speight Solar, LLC	IPP	Williamston Speight Solar, LLC	NC	60787	SPGHT	15.0	Solar Photovoltaic	SUN	PV
2016	12	60571	AEP Onsite Partners	IPP	Cold River Road Solar	VT	60912	PV1	2.3	Solar Photovoltaic	SUN	PV
2016	12	60571	AEP Onsite Partners	IPP	Ohio Northern University Solar Site	OH	60913	PV1	1.7	Solar Photovoltaic	SUN	PV
2016	12	54736	AltaGas Pomona Energy Inc.	Electric CHP	AltaGas Pomona Energy Inc.	CA	50300	BESS1	20.0	Batteries	MWH	BA
2016	12	60281	Altus Power America Management, LLC	IPP	Meadow Solar	MA	60756	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	12	15399	Avangrid Renewables Inc	IPP	Desert Wind Farm, LLC	NC	59968	1	208.0	Onshore Wind Turbine	WND	WT
2016	12	59359	BHE Renewables, LLC	IPP	Grande Prairie Wind Farm	NE	58695	1	400.0	Onshore Wind Turbine	WND	WT
2016	12	59474	BQ Energy LLC	IPP	Steel Sun	NY	59705	SSUN2	2.0	Solar Photovoltaic	SUN	PV
2016	12	60468	Barnhill Road Solar, LLC	IPP	Barnhill Road Solar, LLC	NC	60782	1	3.1	Solar Photovoltaic	SUN	PV
2016	12	60420	BentonSun, LLC	IPP	BentonSun, LLC	MN	60695	MLC17	1.0	Solar Photovoltaic	SUN	PV
2016	12	60420	BentonSun, LLC	IPP	BentonSun, LLC	MN	60695	MLC18	1.0	Solar Photovoltaic	SUN	PV
2016	12	60420	BentonSun, LLC	IPP	BentonSun, LLC	MN	60695	MLC19	1.0	Solar Photovoltaic	SUN	PV
2016	12	60420	BentonSun, LLC	IPP	BentonSun, LLC	MN	60695	MLC20	1.0	Solar Photovoltaic	SUN	PV
2016	12	60420	BentonSun, LLC	IPP	BentonSun, LLC	MN	60695	MLC21	1.0	Solar Photovoltaic	SUN	PV
2016	12	56771	Black Hills Service Company LLC	IPP	Pueblo Airport Generating Station	CO	56998	CT08	37.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	58625	Black Oak Wind, LLC	IPP	Black Oak Wind Farm	MN	58692	1	78.0	Onshore Wind Turbine	WND	WT
2016	12	60374	Blue Lake LLC	IPP	Blue Lake Solar	MN	60632	PV1	3.9	Solar Photovoltaic	SUN	PV
2016	12	60044	Bluestem Wind Energy, LLC	IPP	Bluestem	OK	60256	1	198.0	Onshore Wind Turbine	WND	WT
2016	12	60149	Brady Wind II, LLC	IPP	Brady II Wind Energy Center	ND	60354	BWEC2	150.0	Onshore Wind Turbine	WND	WT
2016	12	60378	Bunn Level Farm, LLC	IPP	Bunn Level Farm, LLC	NC	60636	1	5.0	Solar Photovoltaic	SUN	PV
2016	12	60578	CCC Hastings Renewable Energy, LLC	IPP	CCC Hastings Wind Turbine	NE	60931	WT1	1.7	Onshore Wind Turbine	WND	WT
2016	12	59991	Caprock Solar 1, LLC	IPP	Caprock Solar 1 LLC	NM	59251	PV1	24.4	Solar Photovoltaic	SUN	PV
2016	12	60434	Chisago Community Solar	IPP	Chisago Community Solar	MN	60711	CCS1	0.9	Solar Photovoltaic	SUN	PV
2016	12	60434	Chisago Community Solar	IPP	Chisago Community Solar	MN	60711	CCS2	0.9	Solar Photovoltaic	SUN	PV
2016	12	60434	Chisago Community Solar	IPP	Chisago Community Solar	MN	60711	CCS3	0.9	Solar Photovoltaic	SUN	PV
2016	12	60434	Chisago Community Solar	IPP	Chisago Community Solar	MN	60711	CCS4	0.9	Solar Photovoltaic	SUN	PV
2016	12	57412	Chisholm View Wind Project	IPP	Chisholm View Wind Project	OK	58041	2	64.8	Onshore Wind Turbine	WND	WT
2016	12	60406	Cimarron Bend Wind Project I, LLC	IPP	Cimarron Bend Wind Project I, LLC	KS	60687	1	200.0	Onshore Wind Turbine	WND	WT
2016	12	58871	Citizens Enterprises Corporation	IPP	Hunt Road Solar	MA	59927	PV1	4.5	Solar Photovoltaic	SUN	PV
2016	12	11268	City of Lowell - (MI)	Electric Utility	Chatham	MI	58254	CT02R	3.2	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	14534	City of Pasadena - (CA)	Electric Utility	Glenarm	CA	422	GT5	68.0	Natural Gas Fired Combined Cycle	NG	CT
2016	12	14534	City of Pasadena - (CA)	Electric Utility	Glenarm	CA	422	ST1		Natural Gas Fired Combined Cycle	NG	CA
2016	12	17845	City of Springville - (UT)	Electric Utility	Whitehead	UT	7028	K6CAT	2.5	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17845	City of Springville - (UT)	Electric Utility	Whitehead	UT	7028	K7CAT	2.5	Natural Gas Internal Combustion Engine	NG	IC
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Avenal	CA	60077	AVCA	15.8	Solar Photovoltaic	SUN	PV
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 1	CA	60078	DU1CA	20.0	Solar Photovoltaic	SUN	PV
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 2	CA	60079	DU2CA	20.0	Solar Photovoltaic	SUN	PV
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 3	CA	60080	DU3CA	15.0	Solar Photovoltaic	SUN	PV
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 4	CA	60081	DU4CA	20.0	Solar Photovoltaic	SUN	PV
2016	12	60404	Constellation Solar Arizona 2, LLC	IPP	Amphitheater High School Solar	AZ	60684	AHS1	1.0	Solar Photovoltaic	SUN	PV
2016	12	60404	Constellation Solar Arizona 2, LLC	IPP	Canyon Del Oro High School Solar	AZ	60685	CDO1	1.0	Solar Photovoltaic	SUN	PV
2016	12	60404	Constellation Solar Arizona 2, LLC	IPP	Canyon Del Oro High School Solar	AZ	60685	CDO2	0.1	Solar Photovoltaic	SUN	PV

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

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	12	60377	Creech Solar 2, LLC	IPP	Creech Solar 2, LLC	NC	60635	PV1	6.8	Solar Photovoltaic	SUN	PV
2016	12	5109	DTE Electric Company	Electric Utility	Echo Wind Park	MI	58121	GEN3	50.0	Onshore Wind Turbine	WND	WT
2016	12	57406	Deepwater Wind Block Island LLC	IPP	Block Island Wind Farm	RI	58035	BIWF	29.3	Offshore Wind Turbine	WND	WS
2016	12	5416	Duke Energy Carolinas, LLC	IPP	Mocksville Solar	NC	59570	PV1	7.1	Solar Photovoltaic	SUN	PV
2016	12	57170	EDF Renewable Asset Holdings, Inc.	IPP	Great Western Wind Energy, LLC	OK	60574	GEN1	225.0	Onshore Wind Turbine	WND	WT
2016	12	58970	Ecoplexus, Inc	IPP	Baker PV 1	NC	59517	BAKE1	5.0	Solar Photovoltaic	SUN	PV
2016	12	58970	Ecoplexus, Inc	IPP	Benthall Bridge PV 1	NC	59515	BENT1	5.0	Solar Photovoltaic	SUN	PV
2016	12	60373	Empire LLC	IPP	Empire Solar	MN	60631	PV1	7.0	Solar Photovoltaic	SUN	PV
2016	12	58720	Enbridge	IPP	New Creek Wind	WV	60132	NCG01	103.0	Onshore Wind Turbine	WND	WT
2016	12	59380	Enel Green Power NA, Inc.	IPP	Chisago Solar	MN	60522	PV1	6.5	Solar Photovoltaic	SUN	PV
2016	12	59380	Enel Green Power NA, Inc.	IPP	Drift Sand Wind Project LLC	OK	59065	WT1	109.8	Onshore Wind Turbine	WND	WT
2016	12	60201	Exum Farm Solar, LLC	IPP	Exum Farm Solar, LLC	NC	60400	FLS1	4.9	Solar Photovoltaic	SUN	PV
2016	12	60457	FLS Energy, Inc	IPP	Beetle Solar	NC	59511	PV1	4.0	Solar Photovoltaic	SUN	PV
2016	12	60457	FLS Energy, Inc	IPP	Carol Jean Solar	NC	59017	GEN 1	4.0	Solar Photovoltaic	SUN	PV
2016	12	60457	FLS Energy, Inc	IPP	Husky Solar	NC	59510	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	12	60457	FLS Energy, Inc	IPP	Pollocksville Solar	NC	59917	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	12	31719	FPL Energy Wyman LLC	IPP	William F Wyman	ME	1507	BESS	16.2	Batteries	MWH	BA
2016	12	59745	First Solar Asset Management	IPP	Moapa Southern Paiute	NV	57859	1	250.0	Solar Photovoltaic	SUN	PV
2016	12	59155	First Wind O&M, LLC	IPP	Hancock Wind Plant	ME	58686	HANC1	51.0	Onshore Wind Turbine	WND	WT
2016	12	6452	Florida Power & Light Co	Electric Utility	Babcock Solar Energy Center	FL	59993	1	74.5	Solar Photovoltaic	SUN	PV
2016	12	6452	Florida Power & Light Co	Electric Utility	Citrus Solar Energy Center	FL	60061	1	74.5	Solar Photovoltaic	SUN	PV
2016	12	6452	Florida Power & Light Co	Electric Utility	Fort Myers	FL	612	PFM3C	231.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	6452	Florida Power & Light Co	Electric Utility	Fort Myers	FL	612	PFM3D	231.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	6A	231.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	6B	231.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	6C	231.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	6D	231.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	6E	231.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	6452	Florida Power & Light Co	Electric Utility	Manatee Solar Energy Center	FL	60014	1	74.5	Solar Photovoltaic	SUN	PV
2016	12	59998	Frontier Windpower, LLC	IPP	Frontier Windpower	OK	60218	FC1	200.0	Onshore Wind Turbine	WND	WT
2016	12	7140	Georgia Power Co	Electric Utility	King's Bay Solar Facility	GA	59864	1	30.0	Solar Photovoltaic	SUN	PV
2016	12	60352	Golden Fields Solar I, LLC	IPP	Golden Fields Solar I, LLC	CA	60590	RS1	54.0	Solar Photovoltaic	SUN	PV
2016	12	59806	Grand View PV Solar Two, LLC	IPP	Grand View Solar Two	ID	60068	GVS2	60.0	Solar Photovoltaic	SUN	PV
2016	12	59806	Grand View PV Solar Two, LLC	IPP	Grand View Solar Two	ID	60068	GVS5	20.0	Solar Photovoltaic	SUN	PV
2016	12	7601	Green Mountain Power Corp	Electric Utility	GMP Solar - Hartford	VT	60874	GMPSH	5.0	Solar Photovoltaic	SUN	PV
2016	12	7601	Green Mountain Power Corp	Electric Utility	GMP Solar - Panton	VT	60562	GMPSP	4.9	Solar Photovoltaic	SUN	PV
2016	12	7601	Green Mountain Power Corp	Electric Utility	GMP Solar - Williamstown	VT	60877	GMPSN	5.0	Solar Photovoltaic	SUN	PV
2016	12	59462	Heelstone Energy Holdings, LLC	IPP	Freemont Solar Center LLC	NC	59912	FREE	5.0	Solar Photovoltaic	SUN	PV
2016	12	59462	Heelstone Energy Holdings, LLC	IPP	Red Oak Solar Farm, LLC	NC	60929	RDOAK	4.9	Solar Photovoltaic	SUN	PV
2016	12	59462	Heelstone Energy Holdings, LLC	IPP	Sonne Two	NC	58829	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	12	59462	Heelstone Energy Holdings, LLC	IPP	Valley Center	CA	60509	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	12	56946	Hidalgo Wind Farm LLC	IPP	Hidalgo Wind Farm LLC	TX	57617	GEN1	250.0	Onshore Wind Turbine	WND	WT
2016	12	60164	ILR Landfill	IPP	ILR Landfill	NJ	60375	ILR1	7.7	Solar Photovoltaic	SUN	PV
2016	12	59941	Innovative Solar 43, LLC	IPP	Innovative Solar 43, LLC	NC	60149	FLS1	50.8	Solar Photovoltaic	SUN	PV
2016	12	59441	Innovative Solar 46, LLC	IPP	Innovative Solar 46	NC	59671	IS046	78.5	Solar Photovoltaic	SUN	PV
2016	12	59362	Jericho Rise Wind Farm LLC	IPP	Jericho Rise Wind Farm LLC	NY	59629	GEN1	77.7	Onshore Wind Turbine	WND	WT
2016	12	60354	Kelly Creek Wind, LLC	IPP	Kelly Creek Wind Project	IL	60587	WND1	184.0	Onshore Wind Turbine	WND	WT
2016	12	60371	Kingman Wind Energy, LLC	IPP	Kingman Wind	KS	60639	KMW1	100.0	Onshore Wind Turbine	WND	WT
2016	12	60371	Kingman Wind Energy, LLC	IPP	Kingman Wind	KS	60639	KMW2	100.0	Onshore Wind Turbine	WND	WT
2016	12	60505	Kokomo Solar 1, LLC	IPP	Kokomo Solar 1	IN	60864	PV1	5.4	Solar Photovoltaic	SUN	PV
2016	12	60469	Leggett Solar, LLC	IPP	Leggett Solar, LLC	NC	60783	1	5.0	Solar Photovoltaic	SUN	PV
2016	12	59022	Leonardo Wind 1 LLC	IPP	Leonardo Wind 1 LLC	IA	59228	WT1	3.0	Onshore Wind Turbine	WND	WT
2016	12	60200	Lincoln Solar, LLC	IPP	Lincoln Solar, LLC (NC)	NC	60399	FLS1	4.9	Solar Photovoltaic	SUN	PV
2016	12	59802	Live Oak Solar, LLC	IPP	Live Oak Solar, LLC	GA	60063	LVEOK	51.0	Solar Photovoltaic	SUN	PV
2016	12	60271	Longboat Solar, LLC	IPP	Longboat Solar, LLC	CA	60485	PV1	20.0	Solar Photovoltaic	SUN	PV
2016	12	11208	Los Angeles Department of Water & Power	Electric Utility	Owens Valley Solar Project 11	CA	60953	W5381	1.0	Solar Photovoltaic	SUN	PV
2016	12	11208	Los Angeles Department of Water & Power	Electric Utility	Westmont 300B	CA	60914	W5328	3.0	Solar Photovoltaic	SUN	PV
2016	12	58822	MC Power Companies Inc	IPP	Marshall Solar Farm (MO)	MO	60707	MMSF1	2.8	Solar Photovoltaic	SUN	PV
2016	12	60106	Mesquite Solar 2, LLC	IPP	Mesquite Solar 2, LLC	AZ	60307	1	100.0	Solar Photovoltaic	SUN	PV
2016	12	60107	Mesquite Solar 3, LLC	IPP	Mesquite Solar 3, LLC	AZ	60308	1	150.0	Solar Photovoltaic	SUN	PV
2016	12	59027	Michelangelo Wind 4 LLC	IPP	Michelangelo Wind 4 LLC	IA	59232	WT1	3.0	Onshore Wind Turbine	WND	WT
2016	12	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF2	119.6	Onshore Wind Turbine	WND	WT
2016	12	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF3	92.8	Onshore Wind Turbine	WND	WT
2016	12	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF2	108.7	Onshore Wind Turbine	WND	WT
2016	12	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF3	79.7	Onshore Wind Turbine	WND	WT
2016	12	59323	Monroe Moore Farm, LLC	IPP	Monroe Moore Farm	NC	59578	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	12	59668	Mount Olive Solar LLC	IPP	Mount Olive Solar	NC	59908	2MWPV	2.0	Solar Photovoltaic	SUN	PV
2016	12	56990	NJR Clean Energy Ventures Corporation	IPP	Ringer Hill Wind Farm, LLC	PA	60329	RINGR	39.9	Onshore Wind Turbine	WND	WT
2016	12	56622	NextEra Energy Resources	IPP	Rush Springs Wind	OK	60592	WT1	249.9	Onshore Wind Turbine	WND	WT
2016	12	60364	Ninnescah Wind Energy LLC	IPP	Ninnescah Wind Energy, LLC	KS	60620	NSW	208.3	Onshore Wind Turbine	WND	WT
2016	12	60300	NorWest Energy 2, LLC	IPP	NorWest Energy 2, LLC	OR	60548	PV1	9.9	Solar Photovoltaic	SUN	PV
2016	12	59634	North Star Solar PV LLC	IPP	North Star Solar Project	MN	59852	NSSP1	100.0	Solar Photovoltaic	SUN	PV
2016	12	13781	Northern States Power Co - Minnesota	IPP	Courtenay Wind Farm	ND	58658	1	200.0	Onshore Wind Turbine	WND	WT
2016	12	60440	Northfield Community Solar	IPP	Northfield Community Solar	MN	60717	NCS1	0.9	Solar Photovoltaic	SUN	PV
2016	12	60440	Northfield Community Solar	IPP	Northfield Community Solar	MN	60717	NCS2	0.9	Solar Photovoltaic	SUN	PV
2016	12	60440	Northfield Community Solar	IPP	Northfield Community Solar	MN	60717	NCS3	0.9	Solar Photovoltaic	SUN	PV
2016	12	60440	Northfield Community Solar	IPP	Northfield Community Solar	MN	60717	NCS4	0.9	Solar Photovoltaic	SUN	PV
2016	12	60440	Northfield Community Solar	IPP	Northfield Community Solar	MN	60717	NCS5	0.9	Solar Photovoltaic	SUN	PV
2016	12	60453	Novatus Energy	IPP	Bingham Wind	ME	57531	1	186.0	Onshore Wind Turbine	WND	WT
2016	12	60397	Osborn Wind Energy LLC	IPP	Osborn Wind Energy	MO	60672	GEN1	195.8	Onshore Wind Turbine	WND	WT
2016	12	60258	Paulding Wind Farm III LLC	IPP	Paulding Wind Farm III	OH	60470	1	100.8	Onshore Wind Turbine	WND	WT
2016	12	60536	Pavant Solar III LLC	IPP	Pavant Solar III	UT	60886	PSIII	20.0	Solar Photovoltaic	SUN	PV
2016	12	60438	Paynesville Community Solar	IPP	Paynesville Community Solar	MN	60715	PCS1	0.9	Solar Photovoltaic	SUN	PV
2016	12	60438	Paynesville Community Solar	IPP	Paynesville Community Solar	MN	60715	PCS2	0.9	Solar Photovoltaic	SUN	PV
2016	12	60438	Paynesville Community Solar	IPP	Paynesville Community Solar	MN	60715	PCS3	0.9	Solar Photovoltaic	SUN	PV
2016	12	60438	Paynesville Community Solar	IPP	Paynesville Community Solar	MN	60715	PCS4	0.9	Solar Photovoltaic	SUN	PV
2016	12	60207	Pisgah Mountain, LLC	IPP	Pisgah Mountain Wind	ME	60404	PISGA	9.1	Onshore Wind Turbine	WND	WT
2016	12	60450	Powin Energy	IPP	Millikan BESS	CA	60760	PE101	2.0	Batteries	MWH	BA
2016	12	40307	Prairie Power, Inc	Electric Utility	Alsey	IL	7818	6	42.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	59728	RE Astoria 2 LLC	IPP	RE Astoria 2	CA	59977	ASTR2	75.0	Solar Photovoltaic	SUN	PV
2016	12	59727	RE Astoria LLC	IPP	RE Astoria	CA	59976	ASTR1	100.0	Solar Photovoltaic	SUN	PV
2016	12	60424	Rincon Solar I, LLC	IPP	Rincon Solar I	GA	60702	PV1	17.4	Solar Photovoltaic	SUN	PV
2016	12	60437	Rosemount Community Solar	IPP	Rosemount Community Solar	MN	60714	RCS1	0.9	Solar Photovoltaic	SUN	PV
2016	12	60437	Rosemount Community Solar	IPP	Rosemount Community Solar	MN	60714	RCS2	0.9	Solar Photovoltaic	SUN	PV
2016	12	60437	Rosemount Community Solar	IPP	Rosemount Community Solar	MN	60714	RCS3	0.9	Solar Photovoltaic	SUN	PV
2016	12	60437	Rosemount Community Solar	IPP	Rosemount Community Solar	MN	60714	RCS4	0.9	Solar Photovoltaic	SUN	PV
2016	12	60437	Rosemount Community Solar	IPP	Rosemount Community Solar	MN	60714	RCS5	0.9	Solar Photovoltaic	SUN	PV
2016	12	60445	SEPV Imperial, LLC	IPP	SEPV Imperial Dixieland East	CA	60745	SESI1	1.9	Solar Photovoltaic	SUN	PV
2016	12	60445	SEPV Imperial, LLC	IPP	SEPV Imperial Dixieland West	CA	60744	SESI2	2.9	Solar Photovoltaic	SUN	PV
2016	12	60189	SJA Solar, LLC	IPP	SJA Solar LLC-Solterra Monastery	MA	60391	SJAPV	20.1	Solar Photovoltaic	SUN	PV
2016	12	60511	SR Houston Holdings, LLC	IPP	SR Houston	MS	60853	HOUST	3.1	Solar Photovoltaic	SUN	PV
2016	12	60060	SR Mavericks, LLC	IPP	SR Mavericks	CO	60283	MVRKS	6.5	Solar Photovoltaic	SUN	PV
2016	12	60330	SR South Loving, LLC	IPP	Hazlehurst II	GA	60554	STHLV	52.5	Solar Photovoltaic	SUN	PV
2016	12	60182	SRJFC, LLC	Electric CHP	Santa Rita Jail Fuel Cell	CA	60385	MB-18	1.4	Other Natural Gas	NG	FC
2016	12	60299	Saluda Solar, LLC	IPP	Saluda Solar, LLC	SC	60535	PV1	6.8	Solar Photovoltaic	SUN	PV
2016	12	60097	San Isabel Solar, LLC	IPP	San Isabel Solar, LLC	CO	60304	SISPV	30.0	Solar Photovoltaic	SUN	PV
2016	12	59336	Schell Solar Farm, LLC	IPP	Schell Solar Farm	NC	59591	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	12	59337	Sedberry Farm, LLC	IPP	Sedberry Farm	NC	59592	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	12	60331	Selmer North Solar I, LLC	IPP	Selmer I	TN	60555	SELMI	16.0	Solar Photovoltaic	SUN	PV
2016	12	60332	Selmer North Solar II, LLC	IPP	Selmer II	TN	60556	SELM2	8.0	Solar Photovoltaic	SUN	PV

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

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	12	60520	SoCore Energy LLC	IPP	VEC Alburgh Array	VT	60860	PV1	1.0	Solar Photovoltaic	SUN	PV
2016	12	60257	Solar Glynn LLC	IPP	Solar Glynn	GA	60469	INV1	18.0	Solar Photovoltaic	SUN	PV
2016	12	60177	Solar Star Arizona XIII, LLC	IPP	Sulphur Springs	AZ	60381	SSSP	20.0	Solar Photovoltaic	SUN	PV
2016	12	60353	Solar Star California, XLI, LLC	IPP	Solar Star California, XLI, LLC	CA	60591	RS1	54.0	Solar Photovoltaic	SUN	PV
2016	12	60525	Solar Star California, XLIV, LLC	IPP	Solar Star California, XLIV, LLC	CA	60869	PB1	9.5	Solar Photovoltaic	SUN	PV
2016	12	57313	SolarCity Corporation	IPP	AVS Lancaster 1	CA	60085	PV1	3.7	Solar Photovoltaic	SUN	PV
2016	12	57313	SolarCity Corporation	IPP	CMEEC - Norwich Stott St Solar	CT	60609	BA1	0.8	Batteries	MWH	BA
2016	12	57313	SolarCity Corporation	IPP	CMEEC - Norwich Stott St Solar	CT	60609	PV1	2.0	Solar Photovoltaic	SUN	PV
2016	12	57313	SolarCity Corporation	IPP	Connecticut Municipal Electric Energy Cooperative - Bozrah	CT	60225	PV1	2.5	Solar Photovoltaic	SUN	PV
2016	12	57313	SolarCity Corporation	IPP	Connecticut Municipal Electric Energy Cooperative-Norwich (Rogers Rd)	CT	60228	PV1	1.0	Solar Photovoltaic	SUN	PV
2016	12	57313	SolarCity Corporation	IPP	US-TOPCO (Soccer Center)	CA	60086	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	12	60458	South Fork Wind LLC	IPP	South Fork Wind Farm	MN	58691	STFK1	13.0	Onshore Wind Turbine	WND	WT
2016	12	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG01	18.3	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG02	18.3	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG03	18.3	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG04	18.3	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG05	18.3	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG06	18.3	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG07	18.3	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG08	18.3	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG09	18.3	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG10	18.3	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG11	18.3	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG12	18.3	Natural Gas Internal Combustion Engine	NG	IC
2016	12	17609	Southern California Edison Co	Electric Utility	Center Peaker	CA	56475	BA1	10.0	Batteries	MWH	BA
2016	12	17609	Southern California Edison Co	Electric Utility	Grapeland Peaker	CA	56472	BA1	10.0	Batteries	MWH	BA
2016	12	17609	Southern California Edison Co	Electric Utility	Mira Loma Energy Storage Facility	CA	60661	013A	10.0	Batteries	MWH	BA
2016	12	17609	Southern California Edison Co	Electric Utility	Mira Loma Energy Storage Facility	CA	60661	013B	10.0	Batteries	MWH	BA
2016	12	17650	Southern Power Co	IPP	Boulder Solar Power, LLC	NV	60352	BSP	100.0	Solar Photovoltaic	SUN	PV
2016	12	17650	Southern Power Co	IPP	Butler Solar Project 103	GA	59896	1	103.0	Solar Photovoltaic	SUN	PV
2016	12	17650	Southern Power Co	IPP	Grant Plains Wind, LLC	OK	60545	WT	147.2	Onshore Wind Turbine	WND	WT
2016	12	17650	Southern Power Co	IPP	Rutherford Farm	NC	59589	PV1	61.0	Solar Photovoltaic	SUN	PV
2016	12	17650	Southern Power Co	IPP	Salt Fork Wind Project, LLC	TX	60657	GEN1	174.0	Onshore Wind Turbine	WND	WT
2016	12	60359	Summit Farms LLC	IPP	Summit Farms Solar	NC	60611	PV1	60.0	Solar Photovoltaic	SUN	PV
2016	12	59138	SunPower Corporation, Systems	IPP	Rio Bravo Solar 1 LLC	CA	59249	PV1	19.5	Solar Photovoltaic	SUN	PV
2016	12	59138	SunPower Corporation, Systems	IPP	Rio Bravo Solar II LLC	CA	59250	PV1	19.5	Solar Photovoltaic	SUN	PV
2016	12	59839	Sunflower Wind Project	IPP	Sunflower Wind Project	ND	60088	SNFLR	104.0	Onshore Wind Turbine	WND	WT
2016	12	60436	Sunrise Community Solar	IPP	Sunrise Community Solar	MN	60713	SCS1	0.9	Solar Photovoltaic	SUN	PV
2016	12	60436	Sunrise Community Solar	IPP	Sunrise Community Solar	MN	60713	SCS2	0.9	Solar Photovoltaic	SUN	PV
2016	12	60436	Sunrise Community Solar	IPP	Sunrise Community Solar	MN	60713	SCS3	0.9	Solar Photovoltaic	SUN	PV
2016	12	60436	Sunrise Community Solar	IPP	Sunrise Community Solar	MN	60713	SCS4	0.9	Solar Photovoltaic	SUN	PV
2016	12	60436	Sunrise Community Solar	IPP	Sunrise Community Solar	MN	60713	SCS5	0.9	Solar Photovoltaic	SUN	PV
2016	12	58661	Sustainable Power Group, LLC	IPP	Antelope DSR 1	CA	60186	DSR1	50.0	Solar Photovoltaic	SUN	PV
2016	12	58661	Sustainable Power Group, LLC	IPP	Antelope DSR 2	CA	60187	DSR2	5.0	Solar Photovoltaic	SUN	PV
2016	12	58661	Sustainable Power Group, LLC	IPP	Elevation Solar C	CA	59964	ELVSC	40.0	Solar Photovoltaic	SUN	PV
2016	12	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 3	CA	59316	BEAC3	56.0	Solar Photovoltaic	SUN	PV
2016	12	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 4	CA	59317	BEAC4	50.0	Solar Photovoltaic	SUN	PV
2016	12	58661	Sustainable Power Group, LLC	IPP	North Lancaster Ranch	CA	59962	NLR	20.0	Solar Photovoltaic	SUN	PV
2016	12	58661	Sustainable Power Group, LLC	IPP	Solverde 1	CA	60185	SOLV1	85.0	Solar Photovoltaic	SUN	PV
2016	12	58661	Sustainable Power Group, LLC	IPP	Western Antelope Blue Sky B	CA	59961	WABSB	20.0	Solar Photovoltaic	SUN	PV
2016	12	58661	Sustainable Power Group, LLC	IPP	Western Antelope Dry Ranch	CA	58627	WADR	10.0	Solar Photovoltaic	SUN	PV
2016	12	59826	Syncarpha Bondsville, LLC	IPP	Palmer Landfill	MA	60076	SYNPL	4.0	Solar Photovoltaic	SUN	PV
2016	12	18454	Tampa Electric Co	Electric Utility	Legoland Solar	FL	60371	1	1.5	Solar Photovoltaic	SUN	PV
2016	12	60245	Three Peaks Power LLC	IPP	Three Peaks Power	UT	60432	TPP	80.0	Solar Photovoltaic	SUN	PV
2016	12	59011	Tiburon Holdings	IPP	Tiburon Holdings	NC	59217	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	12	60273	Tyler Bluff Wind Project, LLC	IPP	Tyler Bluff Wind Project, LLC	TX	60502	GEN1	125.6	Onshore Wind Turbine	WND	WT
2016	12	19497	United Illuminating Co	Electric Utility	UI RCP Woodbridge FC	CT	60593	WBFC	2.2	Other Natural Gas	NG	FC
2016	12	60452	Victory Solar LLC	IPP	Victory Solar LLC	CO	60764	PV1	12.8	Solar Photovoltaic	SUN	PV
2016	12	19876	Virginia Electric & Power Co	Electric Utility	Scott Solar Farm	VA	60316	1	6.8	Solar Photovoltaic	SUN	PV
2016	12	19876	Virginia Electric & Power Co	Electric Utility	Whitehouse Solar Farm	VA	60319	1	8.0	Solar Photovoltaic	SUN	PV
2016	12	19876	Virginia Electric & Power Co	Electric Utility	Woodland Solar Farm	VA	60318	1	7.6	Solar Photovoltaic	SUN	PV
2016	12	57081	WGL Energy Systems, Inc	IPP	Eichtens Solar	MN	60795	SO228	3.9	Solar Photovoltaic	SUN	PV
2016	12	57081	WGL Energy Systems, Inc	IPP	Red Wing Solar	MN	60796	SO234	4.9	Solar Photovoltaic	SUN	PV

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
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, Month, and Year

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	1947	Bob Jones University	Commercial	Bob Jones University Cogen Plant	SC	10280	ENG2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2016	1	1947	Bob Jones University	Commercial	Bob Jones University Cogen Plant	SC	10280	ENG4	1.1	Natural Gas Internal Combustion Engine	NG	IC
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	1	58246	Escanaba Operating Services LLC	Electric Utility	Escanaba	MI	1771	1	13.0	Conventional Steam Coal	BIT	ST
2016	1	58246	Escanaba Operating Services LLC	Electric Utility	Escanaba	MI	1771	2	13.0	Conventional Steam Coal	BIT	ST
2016	1	58246	Escanaba Operating Services LLC	Electric Utility	Escanaba	MI	1771	3	12.5	Petroleum Liquids	DFO	GT
2016	1	50152	Fauquier Landfill Gas, LLC	IPP	Fauquier Landfill Gas	VA	56318	1	1.0	Landfill Gas	LFG	IC
2016	1	50152	Fauquier Landfill Gas, LLC	IPP	Fauquier Landfill Gas	VA	56318	2	1.0	Landfill Gas	LFG	IC
2016	1	49777	SP Fiber Technologies NW LLC	Industrial	SPFT - Newberg Cogen	OR	56124	TG2	11.9	Wood/Wood Waste Biomass	WDS	ST
2016	2	3900	City of Coggon - (IA)	Electric Utility	Coggon	IA	1132	IC1	0.6	Petroleum Liquids	DFO	IC
2016	2	9996	City of Kansas City - (KS)	Electric Utility	Quindaro	KS	1295	GT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
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	6455	Duke Energy Florida, Inc	Electric Utility	Rio Pinar	FL	637	P1	12.0	Petroleum Liquids	DFO	GT
2016	3	49770	Energy Recovery Operations, Inc	Commercial	Harford Waste to Energy Facility	MD	54935	001	1.1	Municipal Solid Waste	MSW	ST
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	3	56690	Town of Portsmouth	IPP	Portsmouth Wind Turbine	RI	57350	WTG-1	1.5	Onshore Wind Turbine	WND	WT
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	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	1	170.0	Conventional Steam Coal	SUB	ST
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	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	5	472.0	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
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	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	814	Entergy Arkansas Inc	Electric Utility	Mabelvale	AR	171	1	14.1	Natural Gas Fired Combustion Turbine	NG	GT
2016	6	814	Entergy Arkansas Inc	Electric Utility	Mabelvale	AR	171	3	14.1	Natural Gas Fired Combustion Turbine	NG	GT
2016	6	13478	Entergy New Orleans Inc	Electric Utility	Michoud	LA	1409	2	241.6	Natural Gas Steam Turbine	NG	ST
2016	6	13478	Entergy New Orleans Inc	Electric Utility	Michoud	LA	1409	3	543.8	Natural Gas Steam Turbine	NG	ST
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	54680	San Joaquin LLC	IPP	San Joaquin Cogen	CA	50062	GEN1	48.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	6	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN3	0.4	Other Waste Biomass	OBG	IC
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	12686	Mississippi Power Co	Electric Utility	Sweatt	MS	2048	1	46.0	Natural Gas Steam Turbine	NG	ST
2016	7	12686	Mississippi Power Co	Electric Utility	Sweatt	MS	2048	2	46.0	Natural Gas Steam Turbine	NG	ST
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U4J08	1.4	Landfill Gas	LFG	IC
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	1	1.3	Conventional Hydroelectric	WAT	HY
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	2	1.3	Conventional Hydroelectric	WAT	HY
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	3	1.3	Conventional Hydroelectric	WAT	HY
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	4	1.2	Conventional Hydroelectric	WAT	HY
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	5	1.2	Conventional Hydroelectric	WAT	HY
2016	8	7140	Georgia Power Co	Electric Utility	Kraft	GA	733	PWA	17.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	8	7140	Georgia Power Co	Electric Utility	Mitchell (GA)	GA	727	3	155.0	Conventional Steam Coal	BIT	ST
2016	8	7140	Georgia Power Co	Electric Utility	Mitchell (GA)	GA	727	4A	31.0	Petroleum Liquids	DFO	GT
2016	8	7140	Georgia Power Co	Electric Utility	Mitchell (GA)	GA	727	4B	31.0	Petroleum Liquids	DFO	GT
2016	8	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J98	1.0	Landfill Gas	LFG	IC
2016	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3	103.8	Conventional Hydroelectric	WAT	HY
2016	8	57433	ReEnergy Chateaugay LLC	IPP	ReEnergy Chateaugay Power Station	NY	50277	GEN1	18.0	Wood/Wood Waste Biomass	WDS	ST
2016	9	5347	Dow Chemical Co	Industrial	LaO Energy Systems	LA	52006	GEN7	95.0	Natural Gas Fired Combined Cycle	NG	CT
2016	9	55733	Waste Management Energy Solutions Inc	IPP	El Sobrante Gas Recovery	CA	56534	GEN1	1.3	Landfill Gas	LFG	IC
2016	9	55733	Waste Management Energy Solutions Inc	IPP	El Sobrante Gas Recovery	CA	56534	GEN2	1.3	Landfill Gas	LFG	IC

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

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	9	55733	Waste Management Energy Solutions Inc	IPP	El Sobrante Gas Recovery	CA	56534	GEN3	1.3	Landfill Gas	LFG	IC
2016	9	55733	Waste Management Energy Solutions Inc	IPP	Waste Management Simi Valley LFGTE	CA	56535	GEN1	1.3	Landfill Gas	LFG	IC
2016	9	55733	Waste Management Energy Solutions Inc	IPP	Waste Management Simi Valley LFGTE	CA	56535	GEN2	1.3	Landfill Gas	LFG	IC
2016	10	11241	Entergy Louisiana LLC	Electric Utility	Willow Glen	LA	1394	1	152.0	Natural Gas Steam Turbine	NG	ST
2016	10	11241	Entergy Louisiana LLC	Electric Utility	Willow Glen	LA	1394	3	450.0	Natural Gas Steam Turbine	NG	ST
2016	10	11241	Entergy Louisiana LLC	Electric Utility	Willow Glen	LA	1394	5	485.0	Natural Gas Steam Turbine	NG	ST
2016	10	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	2	213.2	Natural Gas Steam Turbine	NG	ST
2016	10	6035	Exelon Power	IPP	Exelon L Street	MA	1587	GT1	16.0	Petroleum Liquids	DFO	GT
2016	10	58595	INEOS New Planet BioEnergy	Industrial	Indian River BioEnergy Center	FL	58648	ST803	6.4	Natural Gas Steam Turbine	NG	ST
2016	10	14127	Omaha Public Power District	Electric Utility	Fort Calhoun	NE	2289	1	478.1	Nuclear	NUC	ST
2016	10	20838	Win-Sam Inc	Commercial	University of Texas at San Antonio	TX	54606	GEN1	3.3	Natural Gas Internal Combustion Engine	NG	IC
2016	11	50026	Energy Operations Group	Electric CHP	Rupert Cogen Project	ID	54579	1002	10.4	Natural Gas Fired Combined Cycle	NG	CS
2016	11	11241	Entergy Louisiana LLC	Electric Utility	Nine Mile Point	LA	1403	3	100.4	Natural Gas Steam Turbine	NG	ST
2016	11	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-01	2.0	Petroleum Liquids	DFO	IC
2016	11	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-02	2.0	Petroleum Liquids	DFO	IC
2016	11	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-03	2.0	Petroleum Liquids	DFO	IC
2016	11	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-04	2.0	Petroleum Liquids	DFO	IC
2016	11	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-05	2.0	Petroleum Liquids	DFO	IC
2016	12	56730	Cedar Bay Operating Services LLC	Electric CHP	Cedar Bay Generating Company LP	FL	10672	GEN1	250.0	Conventional Steam Coal	BIT	ST
2016	12	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	5	46.0	Conventional Steam Coal	SUB	ST
2016	12	14534	City of Pasadena - (CA)	Electric Utility	Broadway (CA)	CA	420	B3	71.0	Natural Gas Steam Turbine	NG	ST
2016	12	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	1	28.0	Natural Gas Steam Turbine	NG	ST
2016	12	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	2	29.0	Natural Gas Steam Turbine	NG	ST
2016	12	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	3	71.0	Natural Gas Steam Turbine	NG	ST
2016	12	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	6	318.0	Conventional Steam Coal	BIT	ST
2016	12	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	71	3.0	Petroleum Liquids	DFO	IC
2016	12	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	72	3.0	Petroleum Liquids	DFO	IC
2016	12	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	73	2.0	Petroleum Liquids	DFO	IC
2016	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	6	754.0	Natural Gas Steam Turbine	NG	ST
2016	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	7	755.0	Natural Gas Steam Turbine	NG	ST
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	8286	Hawaiian Commercial and Sugar Company	Industrial	Hawaiian Comm & Sugar Puunene Mill	HI	10604	PUU3	10.0	Other Waste Biomass	AB	ST
2016	12	8286	Hawaiian Commercial and Sugar Company	Industrial	Hawaiian Comm & Sugar Puunene Mill	HI	10604	PUU4	20.0	Other Waste Biomass	AB	ST
2016	12	8286	Hawaiian Commercial and Sugar Company	Industrial	Hawaiian Comm & Sugar Puunene Mill	HI	10604	PUU5	16.1	Other Waste Biomass	AB	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	Miramar	CA	305	MRGT	36.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN1	0.4	Other Waste Biomass	OBG	IC
2016	12	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN2	0.4	Other Waste Biomass	OBG	IC

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
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 6.5. 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	1	195	Alabama Power Co	Electric Utility	ANAD Solar Array	AL	60680	1	7.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	7.4
2017	1	59050	Algonquin Power Co	IPP	Algonquin SKIC 10 Solar, LLC	CA	60242	SKI10	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2017	1	59758	American Falls Solar II, LLC	IPP	American Falls Solar II	ID	60012	IPAF2	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	1	59757	American Falls Solar LLC	IPP	American Falls Solar	ID	60011	IPAF	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	1	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
2017	1	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
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	11	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	12	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	13	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	14	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	15	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	16	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	17	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	18	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	19	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	20	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	21	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	22	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2017	1	58540	California PV Energy LLC	IPP	CA Department of Public Health at Richmo	CA	60428	PV1	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	18.7
2017	1	18947	City of Tipton - (IA)	Electric Utility	Tipton	IA	8106	7	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	1	56769	Consolidated Edison Development Inc.	IPP	Oro Loma	CA	59915	ORCA	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2017	1	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Bowling Green	OH	60622	AMPBG	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	1	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT1	41.6	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	41.6
2017	1	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT2	74.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	74.5
2017	1	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT3	32.9	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	32.9
2017	1	60485	Dodge Holdco LLC	IPP	Dodge Holdco Solar	MN	60833	DODGE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	1	15470	Duke Energy Indiana, LLC	Electric Utility	Crane Solar Facility	IN	60435	XXXXX	7.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	17.0
2017	1	59380	Enel Green Power NA, Inc.	IPP	Albany Solar	MN	60519	PV1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	1	59380	Enel Green Power NA, Inc.	IPP	Annandale Solar	MN	60520	PV1	6.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.0
2017	1	59380	Enel Green Power NA, Inc.	IPP	Eastwood Solar	MN	60524	PV1	5.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.5
2017	1	59380	Enel Green Power NA, Inc.	IPP	Lawrence Creek Solar	MN	60528	PV1	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2017	1	59380	Enel Green Power NA, Inc.	IPP	West Faribault Solar	MN	60533	PV1	5.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.5
2017	1	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	1	2.3	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	2.7
2017	1	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	2	2.3	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	2.7
2017	1	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	3	2.3	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	2.7
2017	1	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	4	2.3	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	2.7
2017	1	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	5	2.3	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	2.7
2017	1	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	6	2.3	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	2.7
2017	1	60488	Hwy 14 Holdco, LLC	IPP	Hwy 14 Holdco Solar	MN	60834	HWY14	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	1	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park	IN	60253	SANDE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	1	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
2017	1	60304	Innovative Solar 31, LLC	IPP	Innovative Solar 31	NC	60540	IS031	35.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	35.0
2017	1	49893	Invenergy Services LLC	IPP	Bethel Wind Farm LLC	TX	60414	GEN1	276.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	276.0
2017	1	60514	Iron Horse Solar 1, LLC	IPP	Iron Horse Solar I	MA	60855	DOW	3.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.5
2017	1	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
2017	1	59973	Marshall Solar Energy Project	IPP	Marshall Solar Energy Project	MN	59875	PV1	62.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	62.3
2017	1	59483	Metropolitan Airports Commission	IPP	St. Paul Intl Airport Red & Blue Parking	MN	59709	PV2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2017	1	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
2017	1	58887	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
2017	1	59469	Mt. Home Solar 1, LLC	IPP	Mountain Home Solar	ID	59695	MHPV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	1	60471	Mt. Tom Solar, LLC	IPP	Mt. Tom Solar Project	MA	60906	PV1	4.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.5
2017	1	59755	Murphy Flat Power, LLC	IPP	Murphy Flat Solar	ID	60009	IPMF	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	1	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT1	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	1	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT2	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	1	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT3	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2017	1	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT4	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2017	1	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT5	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2017	1	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT6	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2017	1	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
2017	1	60562	Oliver Wind III, LLC	IPP	Oliver Wind III, LLC	ND	60905	WT1	99.3	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	99.3
2017	1	59025	Optimum Wind 3 LLC	IPP	Optimum Wind 3 LLC	IA	59227	WT1	3.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	3.0
2017	1	59024	Optimum Wind 4 LLC	IPP	Optimum Wind 4 LLC	IA	59226	WT1	3.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	3.0
2017	1	59017	Optimum Wind 5 LLC	IPP	Optimum Wind 5 LLC	IA	59223	WT1	3.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	3.0
2017	1	59018	Optimum Wind 6 LLC	IPP	Optimum Wind 6 LLC	IA	59224	WT1	3.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	3.0
2017	1	59019	Optimum Wind 7 LLC	IPP	Optimum Wind 7 LLC	IA	59225	WT1	3.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	3.0
2017	1	59756	Orchard Ranch Solar, LLC	IPP	Orchard Ranch Solar	ID	60010	IPOR	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	1	60438	Paynesville Community Solar	IPP	Paynesville Community Solar	MN	60715	PCS5	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	1	60412	Portal Ridge Solar, LLC	IPP	Portal Ridge Solar B, LLC	CA	60310	GEN01	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	1	60412	Portal Ridge Solar, LLC	IPP	Portal Ridge Solar C, LLC	CA	60311	GEN01	11.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	11.4
2017	1	57440	SABIC IP Mt. Vernon, LLC	Industrial	SABIC Innovative Plastics Mt. Vernon	IN	58063	COGN1	78.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	108.0
2017	1	60336	SDGE Batteries	Electric Utility	El Cajon Energy Storage	CA	60569	SES	7.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	7.5
2017	1	60336	SDGE Batteries	Electric Utility	Escondido Energy Storage	CA	60570	SES	30.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	30.0
2017	1	60448	Simcoe Solar	IPP	Simcoe Solar	AZ	60748	IDSS	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	1	60520	SoCore Energy LLC	IPP	Mt. Hope DPC Solar	WI	60893	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	1	57313	SolarCity Corporation	IPP	Hampshire College	MA	60815	PV2	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2017	1	59138	SunPower Corporation, Systems	IPP	Wildwood Solar II	CA	59253	PV1	14.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	15.0
2017	1	60046	TPE Alta Luna, LLC	IPP	Alta Luna	NM	60258	ALPV1	28.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	28.1
2017	1	18454	Tampa Electric Co	Electric Utility	Polk	FL	7242	2CC	459.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	463.0
2017	1	24211	Tucson Electric Power Co	Electric Utility	Demoss Petrie	AZ	124	BA1	10.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	10.0
2017	1	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
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS4	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS5	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	1	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
2017	1	60419	WakeSun LLC	IPP	WakeSun, LLC	MN	60694	MLC27	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	1	60419	WakeSun LLC	IPP	WakeSun, LLC	MN	60694	MLC28	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	1	60419	WakeSun LLC	IPP	WakeSun, LLC	MN	60694	MLC29	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	1	60486	Webster Holdco LLC	IPP	Webster Holdco Solar	MN	60830	WEBST	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	2	55918	Acciona Wind Energy USA LLC	IPP	San Roman Wind I, LLC	TX	59712	SRWI	95.3	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	95.3
2017	2	195	Alabama Power Co	Electric Utility	Fort Rucker Solar Array	AL	60679	1	10.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.6
2017	2	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	7.0
2017	2	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	7.0
2017	2	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	7.0
2017	2	60281	Altus Power America Management, LLC	IPP	Aloha Solar Energy Fund 1 PK1	HI	58659	PK-1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	2	60281	Altus Power America Management, LLC	IPP	DDR Shoppers World	MA	60754	PV1	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2017	2	60281	Altus Power America Management, LLC	IPP	Spartan	NJ	60755	PV1	8.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	8.3
2017	2	57369	Apple, Inc	Industrial	Apple Campus 2 Fuel Cell	CA	59557	AC2FC	4.0	Other Waste Biomass	OBG	FC	(V) Under construction, more than 50 percent complete	4.0
2017	2	59861	Benson Creek	IPP	Benson Creek Windfarm	OR	59491	BCW	10.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	10.0

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	2	60535	Boulder Solar II, LLC	IPP	Boulder Solar II, LLC	NV	60885	BSII	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	215.0
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG2	205.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	215.0
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	STGEN	316.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	316.0
2017	2	60518	California PV Energy 2, LLC	IPP	Dept of General Services -FTB	CA	60861	PV1	2.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.7
2017	2	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	10	43.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	53.1
2017	2	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	11	43.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	53.1
2017	2	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	12	40.9	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	43.2
2017	2	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant South Sub	KS	60750	CAT4	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2017	2	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant South Sub	KS	60750	CAT5	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2017	2	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant South Sub	KS	60750	CAT6	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2017	2	58695	Coronal Development Services	IPP	Gulf Coast Solar Center I	FL	59689	GCSC1	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2017	2	58695	Coronal Development Services	IPP	Gulf Coast Solar Center II	FL	59690	GCSC2	40.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	40.0
2017	2	58695	Coronal Development Services	IPP	Gulf Coast Solar Center III	FL	59691	GCSC3	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2017	2	59979	Cotton Plains Wind I, LLC	IPP	Cotton Plains Wind Farm	TX	60210	CPWF	50.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	50.4
2017	2	5109	DTE Electric Company	Electric Utility	Demille 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	2	5416	Duke Energy Carolinas, LLC	Electric Utility	Monroe Solar Facility	NC	60383	MONPV	27.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	59.4
2017	2	59862	Durbin Creek	IPP	Durbin Creek Windfarm	OR	59492	DCW	10.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	10.0
2017	2	59380	Enel Green Power NA, Inc.	IPP	Lindahl Wind Project, LLC	ND	59684	LWP01	150.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	150.0
2017	2	60457	FLS Energy, Inc	IPP	Franklinton Solar	NC	59708	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	2	60501	Farmington Holdco LLC	IPP	Farmington Holdco Solar	MN	60832	FARMI	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	2	60491	Forest Lake Holdco LLC	IPP	Forest Lake Solar	MN	60837	FORES	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	2	60507	Fresh Air Energy XXXV, LLC	IPP	Turkey Creek PV1	NC	60000	TRKCK	13.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	13.5
2017	2	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
2017	2	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
2017	2	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
2017	2	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
2017	2	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
2017	2	60343	Hector Farm, LLC	IPP	Hector Farm	NC	60577	1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	2	59977	Hemlock Solar LLC	IPP	Hemlock Solar	NC	60207	HEMLK	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	2	60479	Iron Horse Solar 4, LLC	IPP	Iron Horse Solar 4, LLC	MA	60799	PV1	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2017	2	59860	Jett Creek	IPP	Jett Creek Windfarm	OR	59490	JCW	10.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	10.0
2017	2	58689	Milan Energy LLC	IPP	Milan	PA	58818	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	7.0
2017	2	58689	Milan Energy LLC	IPP	Milan	PA	58818	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	7.0
2017	2	58689	Milan Energy LLC	IPP	Milan	PA	58818	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	7.0
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA01	46.5	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	46.5
2017	2	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 4	0.6	Natural Gas Steam Turbine	NG	ST	(TS) Construction complete, but not yet in commercial operation	2.9
2017	2	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 5	0.6	Natural Gas Steam Turbine	NG	ST	(TS) Construction complete, but not yet in commercial operation	2.2
2017	2	60490	Pine Island Holdco, LLC	IPP	Pine Island Solar	MN	60835	PINEI	3.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.9
2017	2	59863	Prospector	IPP	Prospector Windfarm	OR	59493	PW	10.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	10.0
2017	2	60520	SoCore Energy LLC	IPP	Downsville DPC Solar	WI	60892	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	2	60520	SoCore Energy LLC	IPP	Medford DPC Solar	WI	60894	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	2	60520	SoCore Energy LLC	IPP	Sauk DPC Solar	WI	60887	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	2	57313	SolarCity Corporation	IPP	CMEEC - Polaris Park Solar	CT	60607	BA1	0.8	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.8
2017	2	57313	SolarCity Corporation	IPP	CMEEC - Rogers Rd Solar	CT	60605	PV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2017	2	57313	SolarCity Corporation	IPP	Hampshire College	MA	60815	PV1	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2017	2	57313	SolarCity Corporation	IPP	Kauai Island Utility Cooperative	HI	60546	PV1	15.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.0
2017	2	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
2017	2	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
2017	2	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
2017	2	57313	SolarCity Corporation	IPP	Weber State University - Davis Campus Solar	UT	60821	PV1	1.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.3
2017	2	17650	Southern Power Co	IPP	East Pecos Solar	TX	60436	1	118.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	118.5
2017	2	60197	St. Pauls Solar 1, LLC	IPP	St. Pauls Solar 1, LLC	NC	60396	FLS1	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2017	2	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	1	19.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.0
2017	2	59021	Venus Wind 3 LLC	IPP	Venus Wind 3 LLC	IA	59230	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	2	19876	Virginia Electric & Power Co	Electric Utility	Merck	VA	59905	1	0.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.1
2017	2	57081	WGL Energy Systems, Inc	IPP	Lind Solar	MN	60966	S0222	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2017	2	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.0
2017	2	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.0
2017	2	60487	Wabasha Holdco LLC	IPP	Wabasha Holdco Solar	MN	60838	WABAS	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2017	2	22500	Westar Energy Inc	Electric Utility	Western Plains Wind Farm	KS	60689	1	280.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	280.0
2017	2	59864	Willow Spring	IPP	Willow Spring Windfarm	OR	59494	WSW	10.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	10.0
2017	3	60019	96WI 8ME, LLC	IPP	Midway Solar Farm II	CA	60237	MSF2	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2017	3	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV1	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2017	3	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	3	60281	Altus Power America Management, LLC	IPP	Cedarville	MA	60757	PV3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	3	60281	Altus Power America Management, LLC	IPP	Shirley Landfill	MA	60753	PV1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	3	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
2017	3	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG2	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2017	3	59725	Ariel Solar, LLC	IPP	Bloomsbury Solar, LLC	NC	59970	BLOOM	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	3	803	Arizona Public Service Co	Electric Utility	Red Rock	AZ	60467	PV1	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2017	3	60515	Astra Wind LLC	IPP	Astra Wind Farm	TX	60856	ASTRA	163.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	163.0
2017	3	60489	Big Lake Holdco LLC	IPP	Big Lake Holdco Solar	MN	60836	BLAKE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	3	60409	Blue Summit Storage, LLC	IPP	Blue Summit Storage, LLC	TX	60690	WBSS	30.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	30.0
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG to Energy	FL	60701	00603	1.4	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	1.6
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG to Energy	FL	60701	00696	1.4	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	1.6
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG to Energy	FL	60701	00697	1.4	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	1.6
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG to Energy	FL	60701	00698	1.4	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	1.6
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG to Energy	FL	60701	00699	1.4	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	1.6
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG to Energy	FL	60701	00700	1.4	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	1.6
2017	3	60407	Cimarron Bend Wind Project II, LLC	IPP	Cimarron Bend Wind Project II, LLC	KS	60688	1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2017	3	58519	Clean Energy Collective LLC	IPP	Fairhaven C	MA	60423	FCPV	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2017	3	58519	Clean Energy Collective LLC	IPP	West Bridgewater AB	MA	60424	WBAB	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2017	3	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	CTG1	10.0			GT	(V) Under construction, more than 50 percent complete	11.0
2017	3	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	CTG2	10.0			GT	(V) Under construction, more than 50 percent complete	11.0
2017	3	60396	Constellation New Energy Inc.	IPP	Hyperion Treatment Plant CHP Plant	CA	60960	STG1	2.0			GT	(V) Under construction, more than 50 percent complete	11.0
2017	3	59997	Customized Energy Solutions	IPP	ESS Fairgrounds	MD	60215	ESSFG	4.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	4.0
2017	3	59997	Customized Energy Solutions	IPP	ESS Lewes	DE	60216	ESSLS	8.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	8.0
2017	3	59997	Customized Energy Solutions	IPP	ESS Wesel	MD	60214	ESSWL	6.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	6.0
2017	3	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
2017	3	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	3	59380	Enel Green Power NA, Inc.	IPP	Atwater	MN	60521	PV1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2017	3	59380	Enel Green Power NA, Inc.	IPP	Dodge Center Solar	MN	60523	PV1	6.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.5
2017	3	59380	Enel Green Power NA, Inc.	IPP	Hastings Solar	MN	60525	PV1	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2017	3	59380	Enel Green Power NA, Inc.	IPP	Lake Emily Solar	MN	60526	PV1	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2017	3	59380	Enel Green Power NA, Inc.	IPP	Lake Pulaski Solar	MN	60527	PV1	7.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	7.5
2017	3	59380	Enel Green Power NA, Inc.	IPP	Montrose Solar	MN	60529	PV1	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2017	3	59380	Enel Green Power NA, Inc.	IPP	Pine Island Solar	MN	60531	PV1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2017	3	58909	Fremont Farm LLC	IPP	Fremont Farm	NC	59103	1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	3	25438	Friant Power Authority	IPP	Friant Hydro Facility	CA	50393	RO2	9.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.9
2017	3	7140	Georgia Power Co	Electric Utility	Marine Corps Logistics Base Solar	GA	59876	1	31.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	31.0
2017	3	59978	HXNAir Solar One LLC	IPP	HXNAir Solar One	NC	60209	HXNAI	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0

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	59436	Innovative Solar 47, LLC	IPP	Innovative Solar 47	NC	59666	ISO47	33.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	33.8
2017	3	60198	Kennedy Solar, LLC	IPP	Kennedy Solar, LLC	NC	60397	FLS1	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2017	3	60461	LSDP 11, LLC	IPP	Deerfield Solar	MA	60775	PV1	4.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.4
2017	3	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
2017	3	60365	NRG Renew Canal 1 LLC	IPP	NRG Renew Canal 1 LLC	MA	60625	CANAL	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2017	3	60307	NRG Solar Blythe II LLC	IPP	Solar Blythe 2	CA	60558	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2017	3	60155	Old Settler Wind, LLC	IPP	Old Settler Wind	TX	60366	OSWF	151.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	151.2
2017	3	17470	PUD 1 of Snohomish County	Electric Utility	Calligan Creek Hydroelectric Project	WA	60418	CC6MW	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	3	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
2017	3	60455	PVN Milliken, LLC	IPP	Milliken Landfill Solar	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy JN, LLC	NM	60145	1	181.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 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	(V) Under construction, more than 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	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	3	60125	Providence Solar Center, LLC	IPP	Providence Solar	TN	60337	PROV	16.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	16.0
2017	3	57313	SolarCity Corporation	IPP	Garrett County - DPU Treatment Plant	MD	60847	PV1	1.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.2
2017	3	57313	SolarCity Corporation	IPP	Genentech Vacaville Meter #1	CA	60844	PV1	3.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.8
2017	3	57313	SolarCity Corporation	IPP	Genentech Vacaville Meter #1	CA	60844	PV2	2.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.3
2017	3	57313	SolarCity Corporation	IPP	Greene County Meter #1	NY	60463	PV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2017	3	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
2017	3	57313	SolarCity Corporation	IPP	Town of Lexington Solar	MA	60816	PV1	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2017	3	59338	Spring Valley Farm 2, LLC	IPP	Spring Valley Farm 2, LLC	NC	59593	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	3	58375	Sterling Municipal Light Department	Electric Utility	Chocksett Rd Energy Storage Project	MA	60959	BA1	2.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.0
2017	3	58661	Sustainable Power Group, LLC	IPP	Lancaster WAD B	CA	59739	LWADB	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	3	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
2017	3	19728	UNS Electric, Inc	Electric Utility	Jacobson 5 MW Solar	AZ	60603	PV1	4.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.4
2017	3	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
2017	4	60587	Antlia Community Solar	IPP	Antlia Community Solar	MN	60937	IACS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60587	Antlia Community Solar	IPP	Antlia Community Solar	MN	60937	IACS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	57369	Apple, Inc	Industrial	Apple Campus 2 PV	CA	59473	AC2PV	14.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	14.4
2017	4	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	796	Arizona Electric Pwr Coop Inc	Electric Utility	Anza 1 Solar	CA	60791	ANZA1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	4	60376	Auten Road Farm, LLC	IPP	Auten Road Farm, LLC	NC	60634	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	4	60484	Bashaw Solar 1, LLC	IPP	Bashaw Solar 1, LLC	MA	60866	4MID	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	4	59308	Bearford Farm, LLC	IPP	Bearford Farm Solar Project	NC	59567	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	4	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	4	60457	FLS Energy, Inc	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	4	60457	FLS Energy, Inc	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	4	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN1	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	232.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN2	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	230.0
2017	4	59435	Innovative Solar 37, LLC	IPP	Innovative Solar 37	NC	59665	ISO37	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	49893	Invenergy Services LLC	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	24.9
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60018	NET Power, LLC	IPP	NET Power La Porte Station	TX	60910	NPLPS	25.5	Other Natural Gas	NG	OT	(L) Regulatory approvals pending. Not under construction	25.5
2017	4	58489	OCI Solar Power	IPP	Pearl Solar	TX	60682	PEARL	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2017	4	60400	Phantom Solar, LLC	IPP	Phantom Solar	TX	60774	GEN1	15.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	15.4
2017	4	60520	SoCore Energy LLC	IPP	Liberty Pole DPC Solar	WI	60891	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.1
2017	4	60520	SoCore Energy LLC	IPP	Warren DPC Solar	WI	60890	PV1	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2017	4	57313	SolarCity Corporation	IPP	Montgomery County - Correctional Facility	MD	60820	PV1	1.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.4
2017	4	57313	SolarCity Corporation	IPP	South Sioux City Solar	NE	60823	PV1	2.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.3
2017	4	57313	SolarCity Corporation	IPP	Sullivan County - Adult Care Solar	NY	60817	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	4	57313	SolarCity Corporation	IPP	US GSA - Sacramento	CA	60846	PV1	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.1
2017	4	17650	Southern Power Co	IPP	Lamesa Solar	TX	60372	LSPV1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2017	4	60593	Spica Community Solar	IPP	Spica Community Solar	MN	60943	MSCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60593	Spica Community Solar	IPP	Spica Community Solar	MN	60943	MSCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	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	4	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 1	CA	59315	BEAC1	56.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	56.0
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG1	211.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG2	211.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	CTG3	211.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	STG1	467.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	467.0
2017	5	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG3	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2017	5	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	5	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	5	60369	City of Worcester DPW	IPP	Worcester Landfill	MA	60621	WL	6.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.5
2017	5	59007	Clipperton Holdings LLC	IPP	Clipperton Holdings	NC	59213	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	5	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
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT4	307.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	(U) Under construction, less than or equal to 50 percent complete	100.0
2017	5	59155	First Wind O&M, LLC	IPP	Mililani South PV	HI	58281	1	14.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	14.7
2017	5	60252	Friendswood Energy Genco, LLC	IPP	Friendswood Energy	TX	60468	GT-1	117.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	121.5
2017	5	59898	Kawailoa Solar, LLC	IPP	Kawailoa Solar	HI	60125	KAWS	49.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	49.0
2017	5	60098	MS Solar 2, LLC	IPP	Sumrall I Solar Farm	MS	60306	SUM1	52.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	52.0
2017	5	12258	Medical Area Total Egy Plt Inc	Commercial	Medical Area Total Energy Plant	MA	10883	CT3	12.8	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	13.8
2017	5	60398	Nixa Solar, LLC	IPP	Nixa Solar, LLC	MO	60673	NIXA	7.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.9
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	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	5	60389	Rabbit Hill Energy Storage Project	IPP	Rabbit Hill Energy Storage Project	TX	60649	1	9.9	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	9.9
2017	5	60466	Rowan Solar NC LLC	IPP	Rowan Solar NC LLC	NC	60780	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	5	60520	SoCore Energy LLC	IPP	Westar Cities Solar	KS	60956	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	5	60520	SoCore Energy LLC	IPP	Whistling Winds DPC Solar	WI	60895	PV1	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	5	57313	SolarCity Corporation	IPP	Valley Sanitary District WTP Solar	CA	60824	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	5	60246	Sunray Energy 2, LLC	IPP	Sunray 2	CA	10437	SUN2	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	5	60247	Sunray Energy 3 LLC	IPP	Sunray 3	CA	10438	SUN3	13.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	13.8
2017	5	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch B LLC	CA	60281	CADRB	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	5	24211	Tucson Electric Power Co	Electric Utility	UASTP II	AZ	57717	UABA	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	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	60248	Agilon Energy LLC	IPP	Chamon Power LLC	TX	60460	CH1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2017	6	60248	Agilon Energy LLC	IPP	Chamon Power LLC	TX	60460	CH2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2017	6	60248	Agilon Energy LLC	IPP	Port Comfort Power LLC	TX	60459	PC1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2017	6	60248	Agilon Energy LLC	IPP	Port Comfort Power LLC	TX	60459	PC2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0

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	6	60130	Albany Green Energy, LLC	Electric CHP	Albany Green Energy	GA	60340	1	42.0	Wood/Wood Waste Biomass	WDS	ST	(V) Under construction, more than 50 percent complete	50.0
2017	6	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
2017	6	60366	BRE NC Solar 2, LLC	IPP	BRE NC Solar 2	NC	60626	BEAM2	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	6	60367	BRE NC Solar 3, LLC	IPP	BRE NC Solar 3	NC	60627	BEAM3	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	6	60368	BRE NC Solar 4, LLC	IPP	BRE NC Solar 4	NC	60628	BEAM4	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	6	59365	Capital Power Corporation	IPP	CP Bloom Wind LLC	KS	59888	GEN	178.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	178.2
2017	6	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT1	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	6	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT2	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	6	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT3	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
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	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
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	60499	Eastway Solar, LLC	IPP	Eastway Solar, LLC	NC	60829	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2017	6	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
2017	6	5701	El Paso Electric Co	Electric Utility	Holloman Solar Facility	NM	60301	HPV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	6	5701	El Paso Electric Co	Electric Utility	Montana Solar Facility	TX	60300	IMPV1	3.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Paynesville Solar	MN	60530	PV1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	Waseca Solar	MN	60532	PV1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2017	6	59380	Enel Green Power NA, Inc.	IPP	West Waconia Solar	MN	60534	PV1	8.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.5
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT7	313.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	130.0
2017	6	56625	Flat Water Wind Farm LLC	IPP	Flat Water Wind Farm LLC	NE	57283	WTG2	10.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	10.5
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	1	147.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	158.4
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	2	147.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	158.4
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	3	217.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	240.7
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	4	217.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	240.7
2017	6	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	6	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	6	60326	Hattiesburg Farm, LLC	IPP	Hattiesburg Solar Farm	MS	60552	HATTI	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2017	6	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
2017	6	58477	O2energies, 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
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	60393	Ridgeland Solar Farm I, LLC	IPP	Ridgeland Solar Project	SC	60659	PV1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2017	6	60576	Ruskin Solar, LLC	IPP	Ruskin Solar	NC	60922	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2017	6	60575	Scarlet Solar, LLC	IPP	Scarlet Solar	NC	60921	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2017	6	60520	SoCore Energy LLC	IPP	Conrath DPC Solar	WI	60889	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	6	60520	SoCore Energy LLC	IPP	Lafayette DPC Solar	WI	60888	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	6	60520	SoCore Energy LLC	IPP	VEC Magee Hill Solar	VT	60954	PV1	1.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.3
2017	6	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
2017	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
2017	6	57313	SolarCity Corporation	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV1	2.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.8
2017	6	57313	SolarCity Corporation	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.4
2017	6	57313	SolarCity Corporation	IPP	Kauai Island Utility Cooperative	HI	60546	BA1	11.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	11.0
2017	6	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
2017	6	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
2017	6	59696	Soluga Farms IV	IPP	Soluga Farms IV	NC	59934	SFIV	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	60509	Thigpen Farms Solar, LLC	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	60574	Viper Solar, LLC	IPP	Viper Solar	NC	60920	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
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	6	59731	Windham Solar LLC	IPP	Lebanon Solar 1	CT	59991	LEB1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	6	59731	Windham Solar LLC	IPP	Lebanon Solar 2	CT	59992	LEB2	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	7	60074	Ajax Solar, LLC	IPP	Ajax Solar	NC	60288	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	7	60513	Bird Machine Solar Farm, LLC	IPP	Bird Machine Solar Farm	MA	60854	BRDMA	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2017	7	60078	Bladen Solar Farm, LLC	IPP	Bladen Solar Farm	NC	60296	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	7	60589	Centaurus Community Solar	IPP	Centaurus Community Solar	MN	60939	KCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60589	Centaurus Community Solar	IPP	Centaurus Community Solar	MN	60939	KCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC1	16.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	17.1
2017	7	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC2	16.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	17.1
2017	7	11701	City of Marquette - (MI)	Electric Utility	Marquette Energy Center	MI	60559	MEC3	16.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	17.1
2017	7	59446	Innovative Solar 55, LLC	IPP	Innovative Solar 55	NC	59676	ISO44	6.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.5
2017	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2017	7	60520	SoCore Energy LLC	IPP	Sand Lake DPC Solar	WI	60957	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	7	60403	TRS Fuel Cell, LLC	IPP	TRS Fuel Cell	CT	60683	MMH1	3.7	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	3.7
2017	7	60193	Tamworth Holdings, LLC	IPP	Tamworth Holdings	NC	60394	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	60112	97WI 8ME, LLC	IPP	Midway Solar Farm III	CA	60315	MSF3	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	8	796	Arizona Electric Pwr Coop Inc	Electric Utility	AEPS1 Solar	AZ	60964	PV1	17.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	17.0
2017	8	58519	Clean Energy Collective LLC	IPP	Arapahoe 3 Community Solar Array	CO	60724	ARAP3	1.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.8
2017	8	58519	Clean Energy Collective LLC	IPP	Conejos 1 Community Solar Array	CO	60723	CONEJ	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2017	8	58519	Clean Energy Collective LLC	IPP	Logan 1 Community Solar Array	CO	60722	LOGA1	1.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.8
2017	8	58519	Clean Energy Collective LLC	IPP	Xcel Adams 1 Community Solar Array	CO	60726	ADCO1	1.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.8
2017	8	58519	Clean Energy Collective LLC	IPP	Xcel Adams 2 Community Solar Array	CO	60725	ADCO2	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2017	8	60348	FL Solar 1, LLC	IPP	CoTAL Solar Farm	FL	60582	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	8	60042	Fluvanna Wind Energy LLC	IPP	Fluvanna	TX	59245	FLUV1	155.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	155.4
2017	8	60598	Jacumba Solar, LLC	IPP	Jacumba Solar Farm	CA	60947	Q644A	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2017	8	60340	M&G Resins USA, LLC	Industrial	M&G Resins USA	TX	60642	1	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2017	8	60340	M&G Resins USA, LLC	Industrial	M&G Resins USA	TX	60642	2	11.7	All Other	WH	OT	(U) Under construction, less than or equal to 50 percent complete	14.3
2017	8	58849	Mariah del Este LLC	IPP	Mariah East	TX	59006	MARN	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	8	56987	RRE Austin Solar LLC	IPP	Pflugerville Solar Farm	TX	57659	PSF	120.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	120.0
2017	8	60520	SoCore Energy LLC	IPP	GRE Marshan Solar	MN	60935	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	60520	SoCore Energy LLC	IPP	Goodhue Solar	MN	60934	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	60520	SoCore Energy LLC	IPP	Goodhue Solar	MN	60934	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	60520	SoCore Energy LLC	IPP	New Auburn DPC Solar	WI	60936	PV1	2.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2017	8	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	60520	SoCore Energy LLC	IPP	Red Maple Solar	MN	60962	PV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	8	60520	SoCore Energy LLC	IPP	Strawberry Point DPC Solar	WI	60955	PV1	1.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.3
2017	8	57313	SolarCity Corporation	IPP	Broome County	NY	60507	NORTH	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	8	57313	SolarCity Corporation	IPP	Broome County	NY	60507	SOUTH	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	8	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Anna Solar	NC	60176	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	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
2017	8	58658	Sunlight Partners	IPP	Bonnie Solar	NC	60175	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2017	8	58658	Sunlight Partners	IPP	Cardinal Solar	NC	60174	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Carter Solar	NC	60167	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Christina Solar	NC	60172	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	8	58658	Sunlight Partners	IPP	Clayton Solar	NC	60171	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0

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	8	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Hawk Solar	NC	60163	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2017	8	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Icarus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	8	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Jordan Solar	NC	60164	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2017	8	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	58658	Sunlight Partners	IPP	Wilfork Solar	NC	60162	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	60495	Sunpin Holdings, LLC	IPP	Colgreen North Shore Solar Farm	CA	60825	CNS1	74.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.8
2017	8	60596	Western Grid Development, LLC	IPP	Santa Paula Energy Storage	CA	60946	SPES1	5.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	8	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSLFG	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2017	8	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSPV	3.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.4
2017	9	60292	Advanced Solar Power Holdings, Inc	IPP	Two Mile Desert Project	NC	60510	PV1	16.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.2
2017	9	60541	Ameresco Glendale Road Solar PV LLC	IPP	Northampton Landfill Solar PV	MA	60908	62380	2.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.4
2017	9	15399	Avangrid Renewables Inc	IPP	Tule Wind LLC	CA	57913	1	143.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	143.0
2017	9	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	9.3
2017	9	60543	Dermott Wind, LLC	IPP	Dermott Wind	TX	60902	DERM	253.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	253.0
2017	9	59745	First Solar Asset Management	IPP	Playa Solar	NV	59827	GEN01	79.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	79.0
2017	9	9417	Interstate Power and Light Co	Electric Utility	Dubuque Solar	IA	60951	PV1	3.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.8
2017	9	60099	MS Solar 3, LLC	IPP	Sumrall II Solar Farm	MS	60303	SUM2	52.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	52.0
2017	9	60363	NRG Solar Mule, LLC	IPP	NRG Solar Mule, LLC	ME	60640	COLBY	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2017	9	60498	Osceola Solar, LLC	IPP	Osceola Solar, LLC	NC	60828	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	9	17470	PUD 1 of Snohomish County	Electric Utility	Hancock Creek Hydroelectric Project	WA	60517	HY1	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	9	59109	SUNE BEACON SITE 2, LLC	IPP	Beacon Solar Plant Site 2	CA	59309	BEAC2	45.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	45.0
2017	9	59110	SUNE BEACON SITE 5, LLC	IPP	Beacon Solar Plant Site 5	CA	59308	BEAC5	36.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	36.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV4	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV5	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	9	57313	SolarCity Corporation	IPP	CMEEC - Navy NE Trident	CT	60608	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	9	57313	SolarCity Corporation	IPP	CMEEC - Polaris Park Solar	CT	60607	PV1	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2017	9	57313	SolarCity Corporation	IPP	Jefferson-Lewis BOCES Solar	NY	60819	PV1	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2017	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
2017	9	60542	Willow Springs Windfarm, LLC	IPP	Willow Springs Wind Farm	TX	60901	WSPWF	250.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.0
2017	10	59474	BQ Energy LLC	IPP	Annapolis Solar Park, LLC	MD	60681	ASP12	12.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	12.0
2017	10	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	10	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	10	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	10	60096	Calvert Energy LLC	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	10	58695	Coronal Development Services	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	10	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee Solar Facility	FL	60788	XXXXX	8.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	8.8
2017	10	59633	Great Bay Solar I LLC	IPP	Great Bay Solar 1	MD	59851	GBS01	57.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Decatur Co. Solar RES (IN)	IN	59988	PV1	1.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Jackson Co. Solar RES	IN	59989	PV1	1.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Spring Mill Solar RES	IN	59987	PV1	1.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.1
2017	10	60303	Innovative Solar 42, LLC	IPP	Innovative Solar 42	NC	60539	IS042	71.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	71.0
2017	10	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
2017	10	58850	Mariah del Sur LLC	IPP	Mariah South	TX	59007	MAR S	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	10	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	10	57313	SolarCity Corporation	IPP	Onondaga County- Clearwater	NY	60462	PV1	2.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.4
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT1	9.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT2	9.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT3	9.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT4	9.7	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.7
2017	10	59056	Tri Global Energy, LLC	IPP	Fiber Winds	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	80.0
2017	10	59056	Tri Global Energy, LLC	IPP	Goodnight	TX	59246	GOOD1	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2017	10	19876	Virginia Electric & Power Co	Electric Utility	Remington Solar Facility	VA	59685	01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	10	57028	West Butte Wind Power LLC	IPP	West Butte Wind Power Project	OR	57704	WB-1	104.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.5
2017	11	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT3	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2017	11	58468	Dominion Renewable Energy	IPP	Buckingham Solar LLC	VA	60917	PV1	19.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	19.8
2017	11	58468	Dominion Renewable Energy	IPP	Correctional Solar LLC	VA	60915	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	11	58468	Dominion Renewable Energy	IPP	Sappony Solar LLC	VA	60916	PV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT11	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	243.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT12	230.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	243.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	ST10	293.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	362.0
2017	11	5580	East Kentucky Power Coop, Inc	Electric Utility	Cooperative Solar One	KY	60863	PV1	8.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	8.5
2017	11	60379	Howardtown Farm, LLC	IPP	Howardtown Farm	NC	60630	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2017	11	60392	Moffett Solar 1, LLC	IPP	Moffett Solar Project	SC	60658	PV1	69.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	71.4
2017	11	60433	Sadiebrook Solar, LLC	IPP	Sadiebrook Solar, LLC	SC	60719	SADIE	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60347	AL Solar A, LLC	IPP	LaFayette Solar Farm	AL	60583	PV1	79.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	79.2
2017	12	60600	Adams Solar, LLC	IPP	Adams Solar	NC	60949	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2017	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2017	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2017	12	60456	Apple Blossom Wind, LLC	IPP	Apple Blossom Wind Farm	MI	58690	APLB1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
2017	12	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT4	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2017	12	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	127.0
2017	12	15399	Avangrid Renewables Inc	IPP	El Cabo Wind	NM	58098	1	298.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	298.0
2017	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2017	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2017	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2017	12	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	12	58574	Canton Mountain Wind LLC	IPP	Canton Mountain Wind	ME	58620	1	22.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	22.8
2017	12	59365	Capital Power Corporation	IPP	Black Fork Wind Energy Project	OH	59907	GEN	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2017	12	59365	Capital Power Corporation	IPP	Cardinal Point LLC	IL	59902	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2017	12	59365	Capital Power Corporation	IPP	Hopeful Solar LLC	GA	59892	GEN	20.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.7
2017	12	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	99.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	99.0
2017	12	59365	Capital Power Corporation	IPP	Poplars Ranch Solar LLC	OR	59890	GEN	16.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	16.0
2017	12	60533	Carl Friedrich Gauss Solar LLC	IPP	Carl Friedrich Gauss Solar	NC	60882	GAUSS	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	SGT1	288.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	361.3
2017	12	58998	Chapman Ranch Wind LLC	IPP	Chapman Ranch Wind I	TX	59193	CHA1	236.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	236.0
2017	12	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB001	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2017	12	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB002	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6

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	12	56769	Consolidated Edison Development Inc.	IPP	Upton County Solar	TX	60581	UCTX	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2017	12	60380	Cork Oak Solar LLC	IPP	Cork Oak Solar	NC	60637	NC160	26.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	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
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	3.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	1.3
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT	(V) Under construction, more than 50 percent complete	1.7
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	65.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	65.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Bruennings Breeze Wind Farm	TX	59066	MVII	230.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Radfords Run Wind Farm	IL	59061	WT1	278.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	278.0
2017	12	58970	Ecoplexus, Inc	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	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
2017	12	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2017	12	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	58970	Ecoplexus, Inc	IPP	Round Hill PV1	NC	59998	RNDHL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	58970	Ecoplexus, Inc	IPP	Vaughn Creek PV1	NC	60001	VNCRK	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	59380	Enel Green Power NA, Inc.	IPP	Rock Creek Wind Project	MO	60655	WT1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2017	12	59735	Enerparc CA2, LLC	IPP	Cloverdale Solar Center	CA	60813	ECA02	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	12	60147	Enerparc Solar Development, LLC	IPP	Hilly Branch	NC	60358	28941	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	12	60147	Enerparc Solar Development, LLC	IPP	Neal Hawkins Rd	NC	60359	60916	4.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.3
2017	12	60147	Enerparc Solar Development, LLC	IPP	Pike Road Solar	NC	60360	51116	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	58672	Everpower Wind Holdings Inc	IPP	Scioto Ridge Wind Farm	OH	58780	1	189.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	189.2
2017	12	59155	First Wind O&M, LLC	IPP	Bowers Wind Project	ME	57088	1	48.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	48.0
2017	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	12	60411	Friesian Holdings, LLC	IPP	Friesian Holdings	NC	60692	PV1	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
2017	12	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1A	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1B	1.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.5
2017	12	60534	Halifax Solar LLC	IPP	Halifax Solar LLC	NC	60884	HALFX	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	60356	Hexagon Energy	IPP	Bay Branch Solar	NC	60601	BBSOL	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	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	12	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	12	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	12	58901	Hydro Green Energy	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
2017	12	59439	Innovative Solar 54, LLC	IPP	Innovative Solar 54	NC	59669	IS054	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2017	12	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	12	60470	Jersey Holdings LLC	IPP	Jersey Holdings	NC	60784	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	59678	KDC Solar PR1, LLC	IPP	KDC Solar PR1, LLC	NJ	59910	SF	22.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	22.0
2017	12	56911	Kalaeloa Solar One LLC	IPP	Kalaeloa Solar One	HI	57569	KS1-A	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	12	56939	Lexington Chenoa Wind Farm II LLC	IPP	Bright Stalk Wind Farm II	IL	57622	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2017	12	56940	Lexington Chenoa Wind Farm LLC	IPP	Bright Stalk Wind Farm I	IL	57623	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2017	12	11204	Los Alamos County	Electric Utility	Los Alamos PV Site	NM	58256	4	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	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
2017	12	56941	Meadow Lake Wind Farm V LLC	IPP	Meadow Lake Wind Farm V LLC	IN	57628	GEN1	100.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.0
2017	12	60035	Michigan Wind 3, LLC	IPP	Michigan Wind 3	MI	60246	1	152.8	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	152.8
2017	12	60527	Milestone Wildomar LLC	IPP	Wildomar Solar	CA	60872	WILD1	1.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.2
2017	12	60604	Mountain Lion Solar, LLC	IPP	Mountain Lion Solar	NC	60950	PV1	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7
2017	12	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	25.0
2017	12	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
2017	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	12	56545	Pattern Operators LP	IPP	Grady Wind Energy Center, LLC	NM	60317	1	200.8	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.8
2017	12	60333	Peanut Solar LLC	IPP	Peanut Solar	NC	60557	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60522	Prairie Wind Energy, LLC	IPP	Prairie Wind Farm	IA	60873	PWE	169.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	169.0
2017	12	60229	Quail Holdings, LLC	IPP	Quail Holdings	NC	60434	PV1	25.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	25.0
2017	12	56424	Quilt Block Wind Farm LLC	IPP	Quilt Block Wind Farm LLC	WI	57116	GEN 1	98.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	98.0
2017	12	59701	RE Tranquillity 8 LLC	IPP	RE Tranquility 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	205.3
2017	12	60443	Rattlesnake Power, LLC	IPP	Rattlesnake Power, LLC	TX	60743	WT1	160.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	160.0
2017	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
2017	12	60217	San Bernardino Valley Municipal Water District	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	1.0
2017	12	58843	Searchlight Wind Energy LLC	IPP	Searchlight Wind	NV	58988	1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2017	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
2017	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
2017	12	57331	Soitec Solar Development LLC	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2017	12	57313	SolarCity Corporation	IPP	CMEEC - Hollyhock Solar	CT	60606	PV1	6.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	6.0
2017	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
2017	12	60595	Spartan PV 1, LLC	IPP	Spartan PV 1	MI	60945	PV1	10.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.5
2017	12	60381	Sunflower Solar LLC	IPP	Sunflower Solar	NC	60638	NC160	20.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar A, LLC	CA	60481	BSHRA	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar B, LLC	CA	60474	BSHRB	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar C, LLC	CA	60475	BSHRC	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	60410	Tanager Holdings, LLC	IPP	Tanager Holdings	NC	60691	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	60071	Trinity Solar, LLC	IPP	Trinity Solar	NC	60291	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
2017	12	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	12	60472	Tungsten Mountain	IPP	Tungsten Mountain	NV	60785	UNIT1	37.0	Geothermal	GEO	BT	(L) Regulatory approvals pending. Not under construction	37.0
2017	12	60597	Violet Solar, LLC	IPP	Violet Solar	NC	60961	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	19876	Virginia Electric & Power Co	Electric Utility	Oceana Solar	VA	60584	01	17.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.6
2017	12	60599	Washington Solar, LLC	IPP	Washington Solar	NC	60948	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	58761	White Camp Solar LLC	IPP	White Camp Solar	TX	58888	WCAMP	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2017	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
2018	1	60277	54 KR 8me LLC	IPP	Redwood 4 Solar Farm	CA	60490	RW4SF	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	1	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Landfill	NC	57492	GEN7	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2018	1	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Landfill	NC	57492	GEN8	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2018	1	2719	CalWind Resources Inc	IPP	Tehachapi Wind Resource II	CA	54909	PLAN	15.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.5
2018	1	56204	Diamond Generating Corporation - Operations, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG1	198.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.0
2018	1	56204	Diamond Generating Corporation - Operations, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG2	198.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.0
2018	1	56204	Diamond Generating Corporation - Operations, LLC	IPP	CPV Valley Energy Center	NY	56940	STG	308.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	CA1	388.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT1	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT2	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT2	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT3	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT4	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT5	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT6	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0

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)
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT7	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG1	226.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.2
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG2	226.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.2
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG3	226.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.2
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	STG	417.6	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	460.0
2018	1	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.6
2018	1	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Sorghum to Ethanol Advanced Biorefin	FL	58997	G1001	12.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	15.0
2018	1	17650	Southern Power Co	IPP	Lamesa Solar	TX	60372	LSPV2	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	2	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	2	58519	Clean Energy Collective LLC	IPP	BHE Pueblo 2 Community Solar Array	CO	60801	PUEB2	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2018	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2018	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	STG	289.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	289.0
2018	2	56615	First Solar Project Development	IPP	Little Bear Solar 1, LLC	CA	59870	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	2	56615	First Solar Project Development	IPP	Little Bear Solar 2, LLC	CA	59885	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	2	56615	First Solar Project Development	IPP	Windhub Solar A LLC	CA	59878	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	2	56615	First Solar Project Development	IPP	Windhub Solar B, LLC	CA	59969	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	2	58959	Freeport LNG Development L.P	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
2018	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	2	156.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2018	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	3	156.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2018	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	4	156.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2018	2	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE2	240.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	240.0
2018	2	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT11	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2018	2	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT12	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2018	2	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	STG11	436.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	436.0
2018	3	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2018	3	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	3	60328	Big Level Wind LLC	IPP	Big Level Wind	PA	60551	BLW01	89.7	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	89.7
2018	3	3265	Cleco Power LLC	Electric Utility	St. Mary Clean Energy Center	LA	60610	1	47.9	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	58.2
2018	3	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-1	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2018	3	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-2	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2018	3	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	STG-1	300.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	311.0
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN8	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	187.0
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN9	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	187.0
2018	3	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	388.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2018	3	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	3	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S1	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S2	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S3	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S4	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S5	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S6	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	60069	Jester Solar LLC	IPP	Jester Solar	NC	60290	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	238.0
2018	3	59260	Wright Solar Park, LLC	IPP	Wright Solar Park	CA	59525	FRWSP	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2018	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	4	59683	Rockwood Energy Center LLC	IPP	Rockwood Energy Center LLC	TX	59918	ROCKW	1,068.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,068.0
2018	4	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	CTG	11.6	Other Waste Biomass	OBG	CT	(U) Under construction, less than or equal to 50 percent complete	12.0
2018	4	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	STG	7.4	Other Waste Biomass	OBG	CA	(U) Under construction, less than or equal to 50 percent complete	9.0
2018	4	59056	Tri Global Energy, LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2018	4	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	1	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	4	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	2	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	235.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	285.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	235.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	285.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	280.5	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	280.5
2018	5	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS1	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2018	5	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS2	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC1ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	5	59283	Gateway Energy Center, LLC	IPP	Gateway Energy Center, LLC	NJ	59538	CT001	442.8	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	440.0
2018	5	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN1	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN1	490.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	529.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN2	490.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	529.0
2018	5	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG1	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2018	5	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG2	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	359.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	11	214.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	235.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	12	214.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	235.0
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES3	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES4	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES5	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2018	5	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	6	59687	AltaGas Sonoran Energy Inc	IPP	Sonoran Energy Project	CA	59925	GEN1	510.7	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	553.0
2018	6	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	210.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	210.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG1	257.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	269.5
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG2	257.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	269.5
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	STG1	336.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	337.0
2018	6	58597	Enivromission, Inc	IPP	La Paz Solar Tower	AZ	58652	1	200.0	Solar Thermal without Energy Storage	SUN	OT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2018	6	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	4	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	100.0
2018	6	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	5	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	100.0
2018	6	60251	GRP Franklin Renewable Energy Facility, LLC	IPP	GRP Franklin Renewable Energy Facility	GA	60550	GEN	93.5	Wood/Wood Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	93.5
2018	6	58880	Gallegos Wind Farm LLC	IPP	Gallegos Wind Farm, Phase 1	NM	59047	GEN 1	180.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	180.0
2018	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2018	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2018	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
2018	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
2018	6	49893	Invenergy Services LLC	IPP	Invenergy Nelson Expansion LLC	IL	60387	GEN3	157.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	190.0
2018	6	49893	Invenergy Services LLC	IPP	Invenergy Nelson Expansion LLC	IL	60387	GEN4	157.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	190.0
2018	6	49805	Kennecott Utah Copper	Industrial	Kennecott Power Plant	UT	56163	5CTG	176.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	207.9
2018	6	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	244.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	301.5
2018	6	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	208.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	234.0
2018	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
2018	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
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-2	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-3	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-1	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0

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)
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	321.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	430.0
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	702	219.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	287.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT1	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT2	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT3	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT4	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	17650	Southern Power Co	IPP	Mankato Energy Center	MN	56104	CTG1	200.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	210.0
2018	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	238.0
2018	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	238.0
2018	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	260.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	CTG1	311.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	347.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	CTG2	311.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	347.0
2018	6	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle Plant	TN	60671	STG1	428.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	476.9
2018	6	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2018	6	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2018	6	60519	Williams Solar, LLC	IPP	Williams Solar, LLC	TX	60859	PV1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	7	56769	Consolidated Edison Development Inc.	IPP	Castle Gap Solar	TX	60123	CGAP	117.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	117.3
2018	7	56615	First Solar Project Development	IPP	CA Flats Solar 150, LLC	CA	60034	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2018	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2018	7	60334	SR Millington, LLC	IPP	Millington Solar Farm	TN	60560	MILL	53.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	53.0
2018	7	59056	Tri Global Energy, LLC	IPP	Bearkat	TX	59972	BRKAT	360.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	360.0
2018	7	59056	Tri Global Energy, LLC	IPP	Blue Cloud Renewable Energy Project, LLC	TX	60270	WT1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	7	54863	U S Power Generating Company LLC	IPP	Gowanus Gas Turbines Generating	NY	2494	SS	90.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	93.0
2018	8	56615	First Solar Project Development	IPP	Snow Mountain Solar, LLC	NV	59935	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	8	57313	SolarCity Corporation	IPP	Oswego County - Fulton Solar	NY	60818	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	10	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC2ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	10	60496	Enerparc Inc.	IPP	Neenach Solar Center	CA	60826	ECA03	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	10	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	244.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	301.5
2018	10	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	208.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	234.0
2018	10	13781	Northern States Power Co - Minnesota	Electric Utility	Rush Creek Wind	CO	60619	GEN1	576.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	600.0
2018	10	59056	Tri Global Energy, LLC	IPP	Tex-Mex Renewable Energy Project, LLC	TX	60269	WT1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2018	11	60420	BentonSun, LLC	IPP	North Slope, LLC	NY	60420	NSPV	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 9	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC11	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	57170	EDF Renewable Asset Holdings, Inc.	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	79.9
2018	12	219	Alaska Power and Telephone Co	Electric Utility	7-Mile Ridge Wind Project	AK	60814	WT1	1.8	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.8
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Carter Solar One, LLC	ID	60896	CRTON	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar East, LLC	ID	60899	JPTEA	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar North, LLC	ID	60897	JPTNO	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar South, LLC	ID	60898	JPTSO	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	60526	Alternative Power Development Northwest, LLC	IPP	Jackpot Solar West, LLC	ID	60900	JPTWE	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2018	12	58794	American Wind Energy Management Corp.	IPP	Lincoln Land Wind	IL	58925	SAN1	30.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	30.0
2018	12	58794	American Wind Energy Management Corp.	IPP	Sangamon Wind Two LLC	IL	58926	SAN2	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	12	58794	American Wind Energy Management Corp.	IPP	Sugar Creek Wind One LLC	IL	58924	SUG1	175.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	175.0
2018	12	59714	Antrim Wind Energy LLC	IPP	Antrim Wind	NH	59953	AWND1	28.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	28.8
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	02B	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	03A	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	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
2018	12	60476	Bluebell Solar, LLC	IPP	Bluebell Solar	TX	60789	UNIT1	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2018	12	59992	Caprock Solar 2, LLC	IPP	Caprock Solar 2 LLC	NM	59846	PV1	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Brantley Solar	NC	60623	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	Cabaniss Solar	NC	60430	PV1	4.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	Fox Creek Solar	NC	60624	PV1	50.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.2
2018	12	58508	Carolina Solar Energy II LLC	IPP	McGrigor Farm Solar	NC	60440	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Tides Lane Farm	NC	60429	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	2	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	198.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	198.0
2018	12	56769	Consolidated Edison Development Inc.	IPP	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	ST	191.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	227.7
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Grandview Wind Farm III LLC	TX	59067	GVIII	188.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	188.0
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Vici Wind Farm	OK	59062	VICI	104.4	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.4
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2018	12	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	60603	Eisenhower Solar, LLC	IPP	Eisenhower Solar	NC	60963	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Baron Winds Farm	NY	60596	1	300.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	300.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	126.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Horse Thief Wind Project, LLC	MT	59758	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Mason Dixon Wind Farm	PA	60212	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Mud Springs Wind Project, LLC	MT	59756	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Pryor Caves Wind Project, LLC	MT	59757	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	12	58672	Everpower Wind Holdings Inc	IPP	Sand Creek Wind Farm	MT	60595	WT1	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2018	12	59745	First Solar Asset Management	IPP	Cuyama Solar, LLC	CA	60043	GEN01	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2018	12	56615	First Solar Project Development	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	56615	First Solar Project Development	IPP	Portal Ridge Solar A, LLC	CA	60309	GEN01	18.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.5
2018	12	56615	First Solar Project Development	IPP	Willow Spring Solar 3, LLC	CA	60325	GEN01	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2018	12	56615	First Solar Project Development	IPP	Willow Spring Solar, LLC	CA	60324	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	58146	Gaelectric LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	131.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	131.1
2018	12	60259	Green River Wind Farm, LLC	IPP	Green River Wind Farm	IL	60471	GRNRV	212.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	212.0
2018	12	60025	Greenbacker Renewable Energy Corporation	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2018	12	60025	Greenbacker Renewable Energy Corporation	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2018	12	60222	Haida Energy, Inc.	Electric Utility	Hiilangaay Hydro	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	12	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN2	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-1	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-2	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-3	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-4	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-5	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-6	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	ST-1	50.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	51.0
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	ST-2	50.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	51.0
2018	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI01	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2018	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI02	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6

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)
2018	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI03	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2018	12	56911	Kalaeloa Solar One LLC	IPP	Kalaeloa Solar One	HI	57569	KS1-B	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58763	LotusWorks-Summit Ridge I, LLC	IPP	Summit Ridge I Wind Farm	OR	58894	SRWF	192.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	192.0
2018	12	55983	Luminant Generation Company LLC	IPP	Horseshoe Bend	TX	59806	SOLAR	140.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	140.0
2018	12	4202	Phillips 66-Ponca City Refinery	Industrial	Ponca City Refinery	OK	52188	G1A	3.0	Other Gases	OG	ST	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	58860	Southbridge Recycling and Disposal Park	IPP	Southbridge Landfill Gas-to-Energy	MA	59011	CAT2	1.5	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2018	12	60523	Springfield Project Development LLC	IPP	Homestead Wind LLC	IA	60871	HOMES	35.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	35.0
2018	12	56069	SunCoke Energy, Inc.	Industrial	SunCoke Energy South Shore Facility	KY	60373	SSST6	60.0	Conventional Steam Coal	BIT	ST	(T) Regulatory approvals received. Not under construction	90.0
2018	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
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG1	276.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG2	276.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	STG1	374.0	Natural Gas Steam Turbine	NG	ST	(T) Regulatory approvals received. Not under construction	394.0
2018	12	2782	Terra-Gen Operating Company	IPP	Dixie Valley Power Partnership	NV	10681	GEN1	25.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	28.0
2018	12	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	59056	Tri Global Energy, LLC	IPP	Cone Renewable Energy Project, LLC	TX	60272	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	58796	Trishe Wind Colorado	IPP	Trishe Wind Colorado	CO	58928	1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2018	12	56633	Trishe Wind Minnesota	IPP	Trishe Wind Minnesota	MN	57255	1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2018	12	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST	(U) Under construction, less than or equal to 50 percent complete	17.0
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT02	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT03	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	ST01	611.8	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	663.9
2018	12	60072	Willard Solar, LLC	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	1	56794	CE Obsidian Energy LLC	IPP	Black Rock I	CA	57477	G3201	60.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	70.0
2019	1	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN3	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2019	1	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind I	CA	60594	VYGR1	131.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	131.1
2019	3	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	160.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	160.0
2019	4	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	GT1	232.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2019	4	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	ST1	108.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	108.0
2019	4	15473	Public Service Co of NM	Electric Utility	La Luz Energy Center	NM	58284	0002	40.2	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	42.3
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT1	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT2	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT3	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT4	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	59111	Crawford Renewable Energy, LLC	IPP	Crawford Renewable Energy - Meadville Po	PA	59307	MPS	93.5	All Other	TDF	ST	(U) Under construction, less than or equal to 50 percent complete	99.5
2019	5	59677	Middlesex Energy Center LLC	IPP	Middlesex Energy Center LLC	NJ	59909	CT001	560.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	560.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	75.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	75.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2019	5	17718	Southwestern Public Service Co	Electric Utility	Gaines County	TX	60697	GC-1	186.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	225.0
2019	6	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC1	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2019	6	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC2	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2019	6	60395	California Ethanol Power, LLC	Industrial	CE&P Imperial Valley 1	CA	60670	1	50.0			CC	(T) Regulatory approvals received. Not under construction	50.0
2019	6	7277	Calpine Corporation	IPP	Wild Horse Power Plant	CA	57181	1	40.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	48.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	CT1	235.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	242.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	ST1	198.5	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	214.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	500.0
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1A	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1B	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1C	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1ST	593.3	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	593.3
2019	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCA1	224.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	321.6
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT1	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT2	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2019	6	21461	NRG Canal LLC	IPP	Canal	MA	1599	3	330.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	330.0
2019	6	54866	Robinson Power Company LLC	IPP	Robinson Power Company LLC	PA	56453	CTG1	950.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,025.0
2019	6	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	2	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG1	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG2	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	ST1	215.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	255.0
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG01	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG02	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG03	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG04	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG05	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG06	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2019	7	59137	Palmer Renewable Energy	IPP	Palmer Renewable Energy	MA	59336	PRE	42.0	Wood/Wood Waste Biomass	WDS	ST	(L) Regulatory approvals pending. Not under construction	42.0
2019	9	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	PVGEN	70.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	70.0
2019	9	60405	FDS Coke Plant, LLC	IPP	FDS Co-Generation Facility	OH	60693	1	110.0	Other Gases	OG	ST	(T) Regulatory approvals received. Not under construction	135.0
2019	9	17609	Southern California Edison Co	Electric Utility	DESI-1 Battery Energy Storage Facility	CA	60699	DESI1	2.4	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.4
2019	10	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	CPEC1	680.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	680.0
2019	10	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	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	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	Asheville	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	Asheville	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	Asheville	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	Asheville	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	60278	64KT 8me LLC	IPP	Springbok 3 Solar Farm	CA	60491	SB3SF	90.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	90.0
2019	12	60560	Big Blue Wind Farm, LLC (TX)	IPP	Big Blue River Wind Farm	IN	60907	WT1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	MN	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
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	59365	Capital Power Corporation	IPP	Tisch Mills Wind	WI	60674	TISCH	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0
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	60288	Cattle Ridge Wind Farm, LLC	IPP	Cattle Ridge Wind Farm 1	SD	60503	CTTL1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	60290	Crocker Wind Farm, LLC	IPP	Crocker Wind Farm	SD	60505	CRCKR	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	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	58672	Everpower Wind Holdings Inc	IPP	Buckeye Wind Farm	OH	58776	1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Coyote Crest Wind Farm	WA	58778	1	127.5	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	127.5
2019	12	58672	Everpower Wind Holdings Inc	IPP	Terrapin Hills Wind Farm	MD	60211	1	50.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	50.0
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

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	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	GT	(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	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
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	PacifiCorp	Electric Utility	Blundell	UT	299	3	35.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	30.0
2019	12	59771	Pecan Solar LLC	IPP	Pecan Solar	NC	60030	PECAN	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
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	60387	Skylar Resources, LP	IPP	Townsite Solar Project	NV	60654	GEN01	160.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	180.0
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	60497	Sun Streams, LLC	IPP	Sun Streams, LLC	AZ	60827	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
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
2019	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
2019	12	60427	WPD Wind Projects Inc	IPP	New Colony Wind Project	MT	60718	WT1	25.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	25.0
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT1	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT2	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
2019	12	20323	Wellhead Services Inc	IPP	Stanton Energy Reliability Center	CA	60698	GT3	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.5
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	59365	Capital Power Corporation	IPP	Salt Springs Wind Farm	KS	60807	WT	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	1	13478	Entergy New Orleans Inc	Electric Utility	New Orleans Power	LA	60928	1	250.0	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	250.0
2020	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,105.0
2020	1	60335	White Wing Ranch North, LLC	IPP	White Wing Solar	AZ	60572	GEN01	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	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	3	60350	CPV Fairview, LLC	IPP	CPV Fairview Energy Center	PA	60589	GEN1	1,062.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,062.0
2020	5	18445	City of Tallahassee - (FL)	Electric Utility	Arvah 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	60383	Henrietta D Energy Storage LLC	IPP	Henrietta D Energy Storage LLC	CA	60641	HDES1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
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	83WI 8ME, 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	Covanta 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	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	500.0
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	59588	Lake Creek 3 Power Company LLC	IPP	Lake Creek	TX	3502	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	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	9	60388	Mission Rock Energy Center, LLC	IPP	Mission Rock Energy Center	CA	60650	BA1	25.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	25.0
2020	9	60388	Mission Rock Energy Center, LLC	IPP	Mission Rock Energy Center	CA	60650	GT1	275.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	275.0
2020	9	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECNY	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2020	9	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECPJ	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
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	60463	American Kings Solar, LLC	IPP	American Kings Solar, LLC	CA	60777	GEN01	123.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	123.0
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	1	19876	Virginia Electric & Power Co	Electric Utility	VA Offshore Wind Project (VOWTAP)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	12.0
2021	4	55927	Power4Georgians 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
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1A	250.0			CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1B	250.0			CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1C	500.0			CA	(L) Regulatory approvals pending. Not under construction	500.0
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	II-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	II-B	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2027	12	60223	Ketchikan Electric Company	Electric Utility	Mahoney Lake Hydroelectric	AK	59027	GEN 1	9.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.6

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.

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	1	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2017	1	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2017	3	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	1TG	10.5	Wood/Wood Waste Biomass	BLQ	ST
2017	3	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	GT7	7.3	Natural Gas Fired Combustion Turbine	NG	GT
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	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2017	4	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2017	4	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2017	4	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2017	4	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2017	4	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	1	628.0	Conventional Steam Coal	BIT	ST
2017	4	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	2	602.0	Conventional Steam Coal	BIT	ST
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	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	225.2	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	2	237.8	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	3	575.0	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	4	435.0	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	17.5	Natural Gas Steam Turbine	NG	ST
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	2	17.4	Natural Gas Steam Turbine	NG	ST
2017	6	54842	WM Renewable Energy LLC	IPP	New Milford Gas Recovery	CT	50564	GEN4	0.8	Landfill Gas	LFG	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	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	1	200.0	Conventional Steam Coal	BIT	ST
2017	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	2	200.0	Conventional Steam Coal	BIT	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
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	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	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	ST1	106.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Kearny	CA	303	KEA3	61.0	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	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	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	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 Sewaren Generating Station	NJ	2411	1	102.8	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	2	118.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	3	106.2	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	4	123.6	Natural Gas Steam Turbine	NG	ST
2018	6	55951	Exelon Nuclear	IPP	Quad Cities Generating Station	IL	880	1	908.0	Nuclear	NUC	ST
2018	6	55951	Exelon Nuclear	IPP	Quad Cities Generating Station	IL	880	2	911.0	Nuclear	NUC	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	13781	Northern States Power Co - Minnesota	Electric Utility	Northern States Flambeau	WI	3984	1	12.0	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
2018	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	302.4	Conventional Steam Coal	SUB	ST
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2019	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
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	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	2	66.0	Natural Gas Steam Turbine	NG	ST
2019	12	56706	Chevron Technology Ventures	IPP	Questa Solar Facility	NM	57369	QST	1.0	Solar Photovoltaic	SUN	PV
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
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	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN18	0.4	Conventional Hydroelectric	WAT	HY
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN19	0.4	Conventional Hydroelectric	WAT	HY
2020	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN20	0.4	Conventional Hydroelectric	WAT	HY
2020	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	1	190.0	Conventional Steam Coal	SUB	ST
2020	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	2	195.0	Conventional Steam Coal	SUB	ST
2020	6	60422	H.A. Wagner 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	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	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	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
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

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
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
2025	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	2	670.0	Conventional Steam Coal	SUB	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	83.0	Natural Gas Fired Combined Cycle	NG	CA
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	72.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	72.0	Natural Gas Fired Combined Cycle	NG	CT
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
2046	12	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CS
2046	12	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CS

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
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-December 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	54.7%	55.9%	6.9%	11.5%	8.9%	13.3%	1.1%	2.2%
2016	52.7%	56.0%	8.3%	12.2%	NA	10.8%	1.3%	NA
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	61.3%	52.6%	4.4%	7.6%	5.2%	12.4%	0.6%	2.5%
February	64.9%	52.2%	6.2%	9.9%	5.7%	22.8%	1.9%	3.1%
March	50.3%	50.7%	5.2%	8.3%	8.5%	7.9%	0.6%	1.9%
April	43.3%	47.9%	5.7%	9.4%	6.6%	12.0%	0.9%	2.2%
May	49.8%	50.2%	6.7%	9.3%	8.7%	12.6%	1.1%	2.0%
June	62.6%	61.5%	8.3%	13.7%	11.2%	12.0%	1.0%	2.0%
July	66.8%	67.2%	10.7%	19.4%	12.3%	15.5%	1.3%	2.4%
August	64.9%	66.9%	8.9%	19.0%	12.3%	14.8%	1.2%	2.4%
Sept	58.7%	61.4%	8.2%	14.2%	9.8%	15.9%	1.2%	2.1%
October	47.0%	53.6%	6.7%	10.5%	8.1%	14.5%	1.0%	2.1%
November	43.9%	50.9%	7.0%	8.4%	8.6%	10.5%	1.9%	1.8%
December	43.6%	54.6%	5.0%	8.5%	8.5%	9.7%	1.1%	2.0%
Year 2016								
January	55.6%	56.8%	4.5%	6.3%	NA	9.4%	0.5%	NA
February	48.4%	54.1%	4.5%	6.4%	NA	9.9%	0.5%	NA
March	35.6%	50.8%	7.2%	9.9%	NA	8.3%	1.3%	NA
April	37.3%	48.1%	8.6%	12.1%	NA	9.1%	1.0%	NA
May	41.1%	53.2%	7.6%	12.5%	NA	10.6%	1.3%	NA
June	60.8%	64.7%	10.0%	17.5%	NA	12.5%	1.5%	NA
July	69.1%	68.8%	14.3%	22.9%	NA	16.1%	2.5%	NA
August	68.6%	71.3%	14.3%	21.2%	NA	14.3%	3.1%	NA
Sept	59.7%	61.4%	9.4%	14.5%	NA	12.2%	1.4%	NA
October	50.2%	48.1%	7.6%	11.4%	NA	8.2%	1.1%	NA
November	45.5%	47.0%	6.6%	6.0%	NA	9.3%	0.7%	NA
December	60.2%	47.8%	4.7%	5.4%	NA	9.4%	0.6%	NA

Values for 2015 and prior years are final. Values for 2016 are preliminary. NA = Not Available

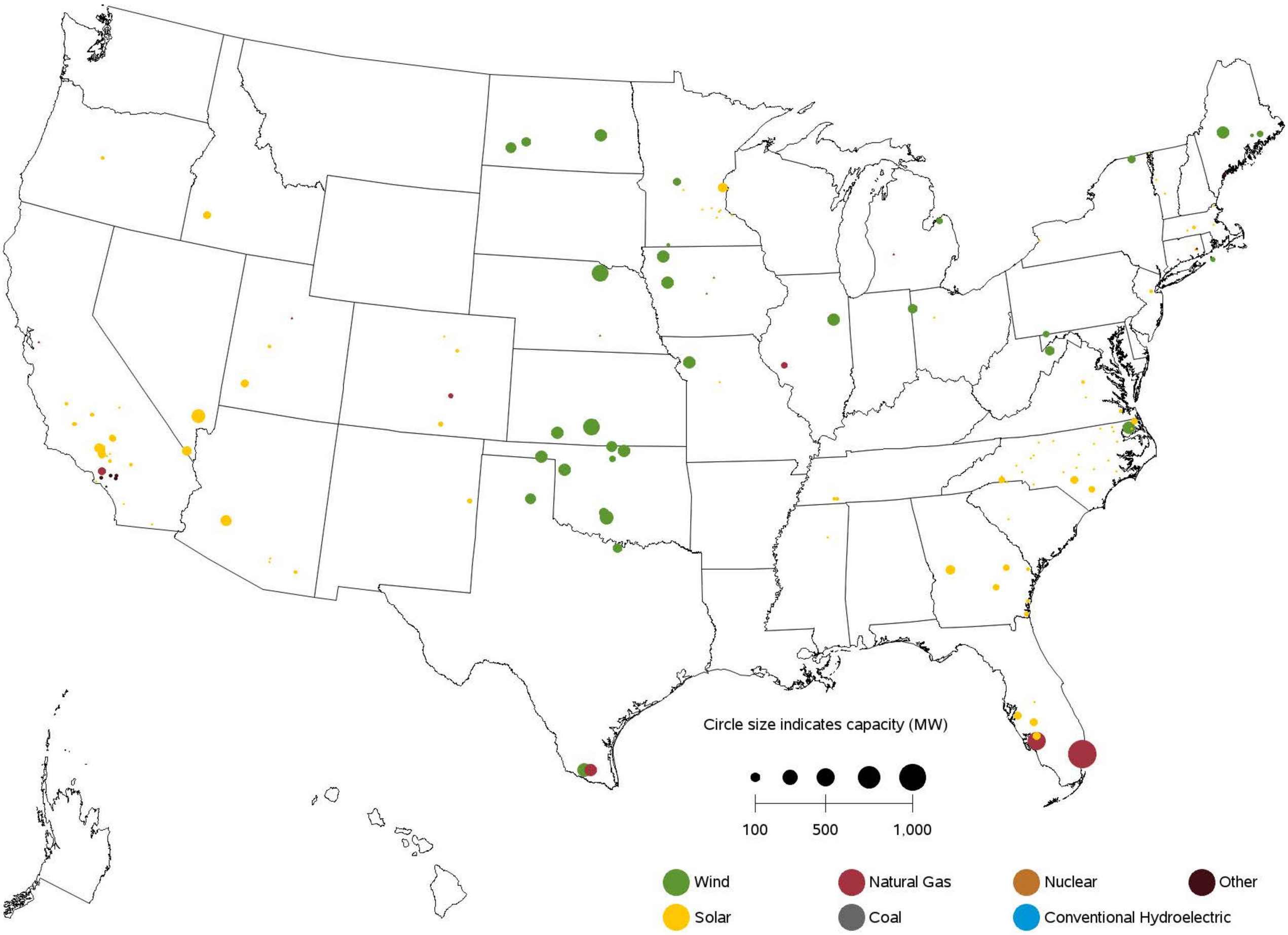
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels, January 2013-December 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	92.3%	35.8%	32.2%	25.8%	22.1%	68.7%	55.3%	74.3%
2016	92.5%	38.0%	34.7%	27.2%	22.2%	70.7%	46.7%	74.2%
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%	40.7%	31.2%	16.8%	5.0%	65.1%	57.2%	75.9%
February	95.8%	41.4%	34.1%	22.1%	14.5%	64.3%	60.0%	76.4%
March	88.0%	40.8%	31.4%	26.7%	22.6%	63.0%	53.4%	76.8%
April	84.3%	39.4%	37.5%	30.9%	30.5%	66.8%	47.3%	72.4%
May	89.8%	33.9%	34.8%	31.2%	27.0%	68.5%	48.4%	76.6%
June	96.4%	35.8%	27.9%	31.7%	32.2%	69.2%	56.7%	74.1%
July	97.3%	35.8%	27.4%	31.4%	31.1%	73.1%	59.9%	74.7%
August	98.6%	32.5%	25.8%	31.3%	32.3%	71.5%	61.6%	73.9%
Sept	93.6%	28.3%	28.1%	26.6%	27.1%	68.8%	56.1%	67.9%
October	82.5%	28.3%	31.6%	22.8%	16.5%	68.3%	48.8%	72.4%
November	84.8%	33.8%	39.0%	20.7%	16.9%	72.4%	55.8%	75.4%
December	94.9%	39.4%	37.4%	17.5%	9.5%	73.0%	58.3%	75.3%
Year 2016								
January	98.8%	42.6%	34.2%	17.9%	6.8%	70.3%	51.2%	73.6%
February	95.6%	43.2%	39.9%	26.7%	19.5%	66.0%	54.0%	73.5%
March	90.1%	45.2%	40.4%	28.0%	19.6%	63.5%	47.8%	72.8%
April	87.8%	44.2%	39.0%	30.8%	20.9%	68.5%	36.4%	68.9%
May	90.7%	42.6%	34.3%	35.0%	28.9%	75.2%	39.0%	74.1%
June	94.5%	40.2%	30.6%	33.6%	33.5%	73.8%	47.2%	71.6%
July	94.8%	35.9%	32.0%	34.8%	36.9%	72.8%	52.4%	72.7%
August	96.3%	32.7%	24.5%	33.4%	29.2%	73.7%	54.9%	73.5%
Sept	91.1%	28.4%	30.6%	30.1%	30.2%	70.7%	47.4%	76.1%
October	81.9%	29.2%	36.7%	25.3%	19.1%	66.4%	38.0%	75.1%
November	91.1%	33.3%	35.4%	21.3%	14.4%	71.5%	41.6%	78.2%
December	97.0%	38.2%	38.8%	15.5%	7.0%	76.3%	50.2%	80.7%

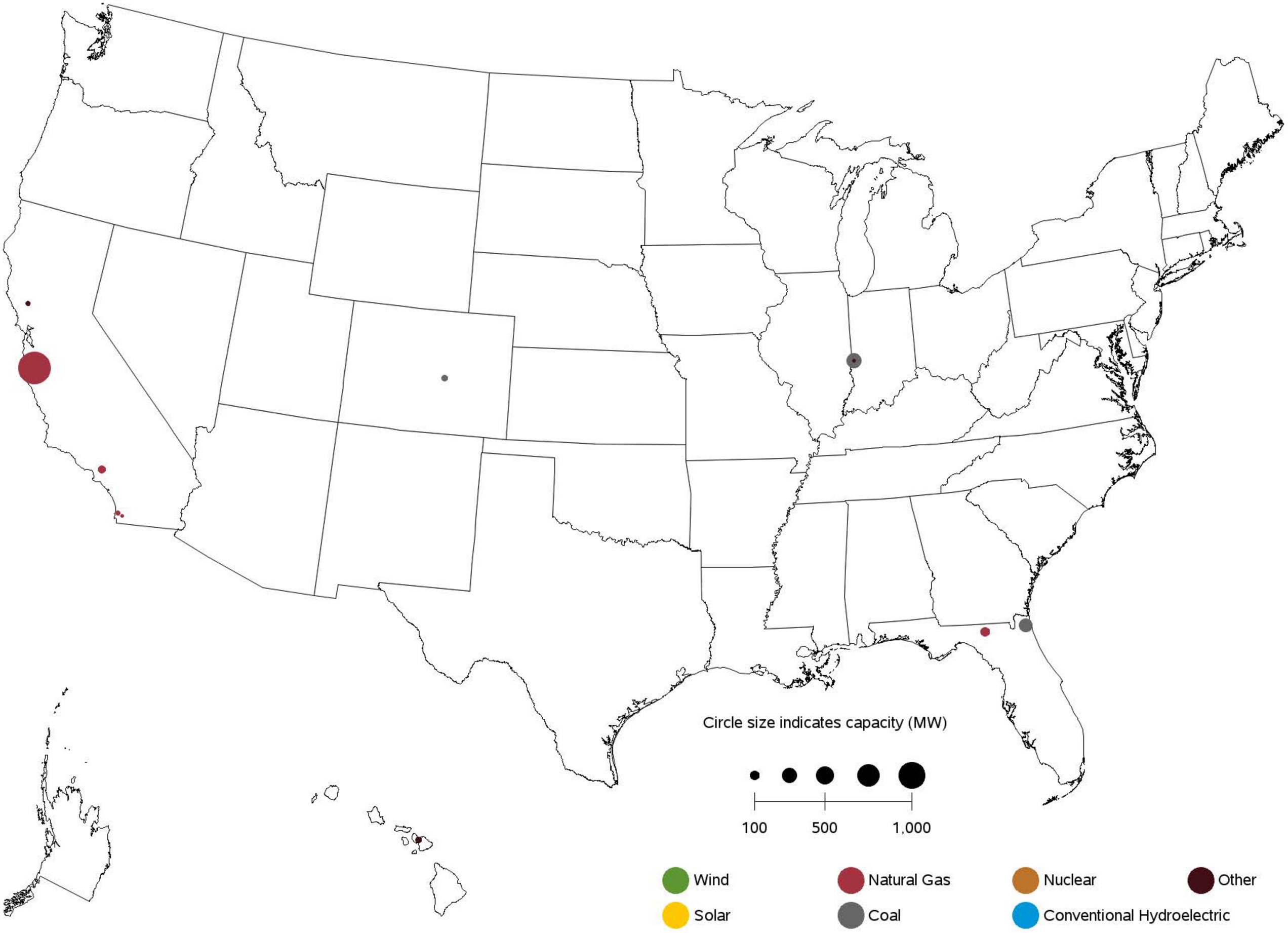
Values for 2015 and prior years are final. Values for 2016 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; 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 December 2016



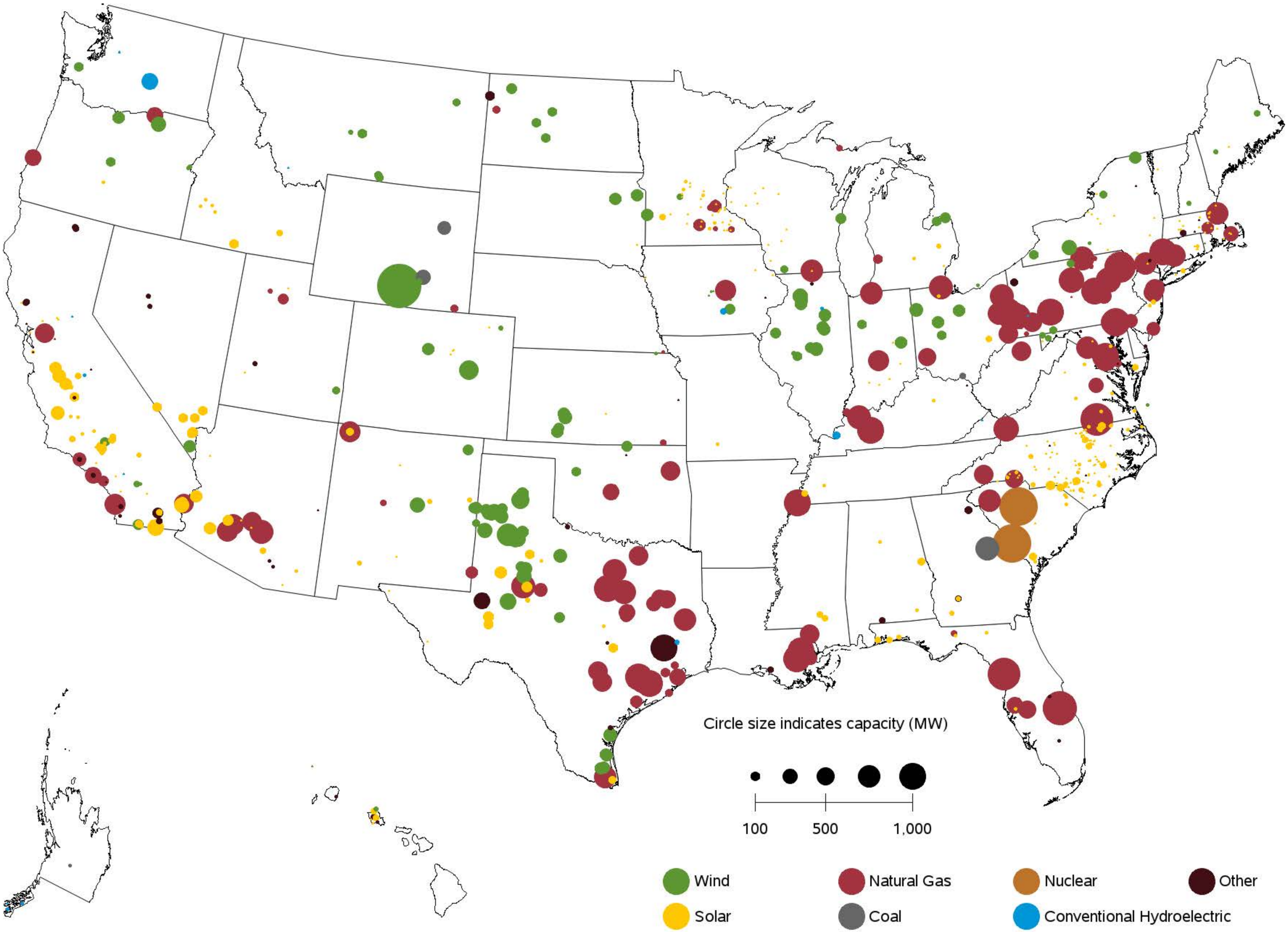
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in December 2016



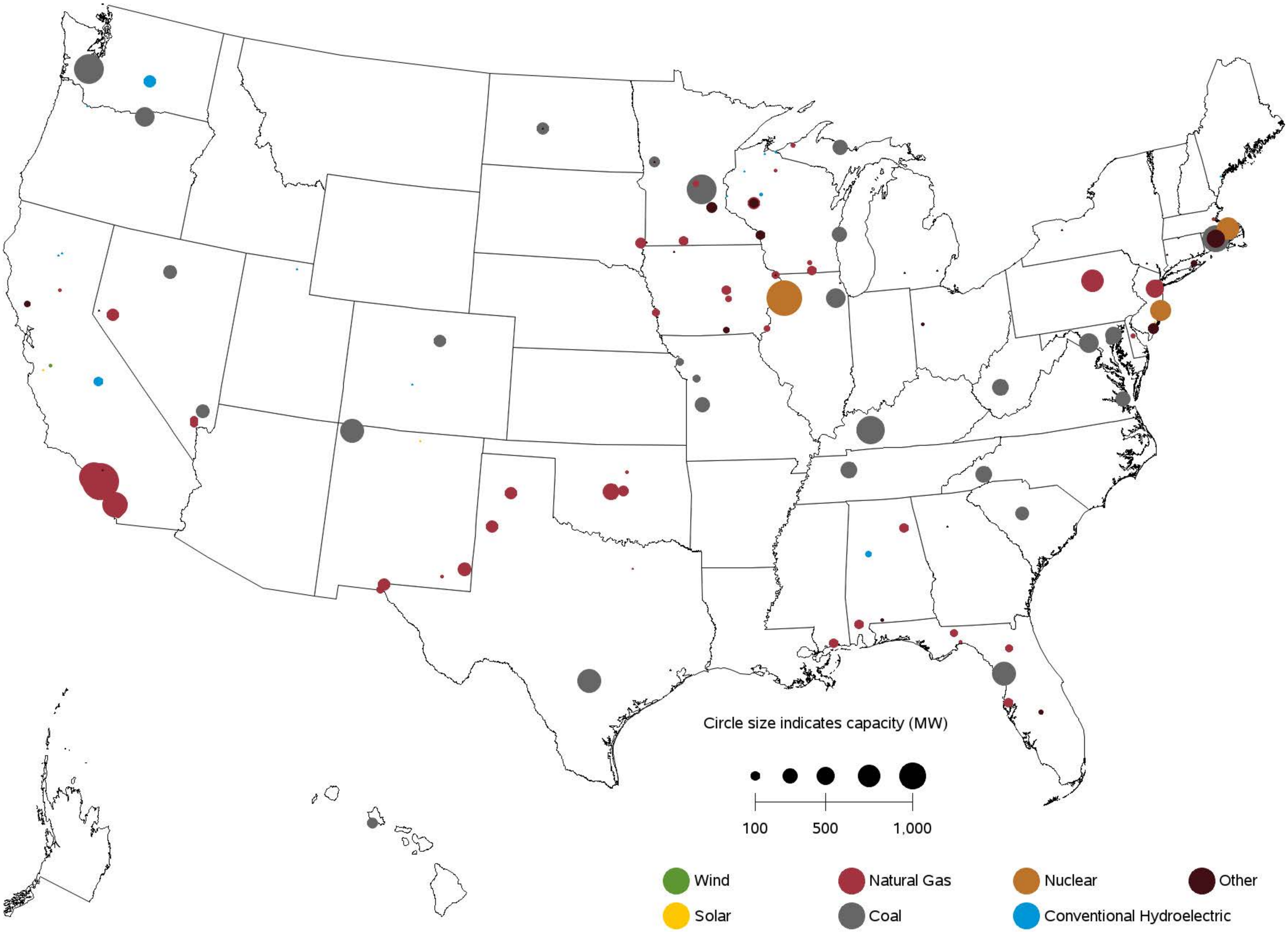
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from January 2017 to December 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 January 2017 to December 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, December 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**4**	**0**	**2**	**0**	**0**	**10**
Connecticut	0	8	0	3	0	0	70
Maine	0	17	0	15	0	0	15
Massachusetts	1	4	0	3	0	0	28
New Hampshire	0	40	0	2	0	0	15
Rhode Island	0	67	0	2	0	0	719
Vermont	0	234	0	269	0	0	34
Middle Atlantic	**2**	**6**	**43**	**1**	**27**	**0**	**2**
New Jersey	0	6	80	2	85	0	701
New York	0	5	0	2	0	0	2
Pennsylvania	2	18	51	1	20	0	9
East North Central	**0**	**4**	**5**	**1**	**10**	**0**	**15**
Illinois	0	4	0	3	80	0	81
Indiana	0	5	0	2	14	0	22
Michigan	2	29	15	2	0	0	28
Ohio	1	2	3	1	45	0	30
Wisconsin	0	36	0	2	0	0	22
West North Central	**1**	**9**	**80**	**3**	**180**	**0**	**8**
Iowa	2	15	80	9	0	0	33
Kansas	0	8	0	3	0	0	268
Minnesota	2	64	0	3	0	0	35
Missouri	1	1	0	7	0	0	17
Nebraska	2	69	0	17	0	0	26
North Dakota	2	12	0	38	180	0	0
South Dakota	0	150	0	23	0	0	1
South Atlantic	**0**	**3**	**0**	**0**	**0**	**0**	**7**
Delaware	0	23	0	8	0	0	0
District of Columbia	0	1,000	0	161	0	0	0
Florida	0	3	0	1	0	0	72
Georgia	0	19	0	1	0	0	13
Maryland	0	19	0	26	0	0	2
North Carolina	1	4	0	0	0	0	14
South Carolina	0	10	0	1	0	0	23
Virginia	1	7	0	0	0	0	24
West Virginia	0	0	0	4	0	0	19
East South Central	**0**	**6**	**0**	**1**	**63**	**0**	**4**
Alabama	1	22	0	1	114	0	7
Kentucky	0	5	0	2	0	0	5
Mississippi	0	12	0	1	0	0	0
Tennessee	0	6	0	1	0	0	8
West South Central	**0**	**3**	**2**	**0**	**4**	**0**	**10**
Arkansas	0	2	0	1	0	0	13
Louisiana	0	3	2	1	5	0	0
Oklahoma	1	18	0	1	0	0	27
Texas	0	4	38	1	5	0	41
Mountain	**1**	**24**	**0**	**1**	**5**	**0**	**4**
Arizona	0	29	0	0	0	0	2
Colorado	0	215	0	1	0	0	24
Idaho	79	482	0	3	0	0	10
Montana	5	54	0	44	0	0	4
Nevada	0	0	0	1	0	0	5
New Mexico	0	45	0	3	0	0	142
Utah	1	35	0	5	263	0	42
Wyoming	2	10	0	16	4	0	28
Pacific Contiguous	**0**	**19**	**0**	**1**	**6**	**0**	**1**
California	0	23	0	2	8	0	6
Oregon	0	8	0	0	0	0	2
Washington	0	47	0	2	0	0	1
Pacific Noncontiguous	**5**	**5**	**0**	**11**	**123**	**0**	**19**
Alaska	14	8	0	11	0	0	20
Hawaii	4	5	0	0	123	0	72
U.S. Total	**0**	**4**	**2**	**0**	**5**	**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.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, December 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**	**21**	**3**	**0**	**4**	**1**
Connecticut	0	0	0	96	5	0	6	1
Maine	0	0	0	0	1	0	14	4
Massachusetts	0	0	0	23	8	0	5	2
New Hampshire	0	0	0	0	11	0	31	2
Rhode Island	0	0	0	132	13	0	0	2
Vermont	0	0	0	57	14	0	0	18
Middle Atlantic	**0**	**0**	**0**	**18**	**1**	**0**	**4**	**1**
New Jersey	0	0	0	20	8	0	5	1
New York	0	0	0	39	1	0	7	1
Pennsylvania	0	0	0	67	1	0	6	1
East North Central	**0**	**0**	**0**	**28**	**1**	**0**	**9**	**0**
Illinois	0	0	0	73	0	0	28	0
Indiana	0	0	0	35	1	0	5	1
Michigan	0	0	0	128	2	0	13	1
Ohio	0	0	0	65	3	0	61	1
Wisconsin	0	0	0	262	2	0	42	1
West North Central	**0**	**0**	**0**	**39**	**0**	**0**	**11**	**0**
Iowa	0	0	0	337	0	0	179	1
Kansas	0	0	0	452	0	0	0	0
Minnesota	0	0	0	46	1	0	11	1
Missouri	0	0	0	85	2	0	0	1
Nebraska	0	0	0	226	1	0	0	2
North Dakota	0	0	0	0	0	0	37	1
South Dakota	0	0	0	452	1	0	0	1
South Atlantic	**0**	**0**	**0**	**5**	**1**	**0**	**3**	**0**
Delaware	0	0	0	73	29	0	0	7
District of Columbia	0	0	0	0	0	0	0	161
Florida	0	0	0	3	3	0	3	0
Georgia	0	0	0	6	2	0	0	0
Maryland	0	0	0	35	4	0	0	1
North Carolina	0	0	0	9	5	0	16	0
South Carolina	0	0	0	147	6	0	19	0
Virginia	0	0	0	58	2	0	6	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**23**	**2**	**0**	**14**	**0**
Alabama	0	0	0	0	3	0	0	1
Kentucky	0	0	0	0	6	0	0	0
Mississippi	0	0	0	257	3	0	180	0
Tennessee	0	0	0	52	7	0	0	1
West South Central	**0**	**0**	**0**	**6**	**0**	**0**	**13**	**0**
Arkansas	0	0	0	125	3	0	0	0
Louisiana	0	0	0	0	4	0	17	1
Oklahoma	0	0	0	0	0	0	29	0
Texas	0	0	0	5	0	0	15	0
Mountain	**0**	**3**	**0**	**2**	**1**	**0**	**7**	**1**
Arizona	0	0	0	3	3	0	0	0
Colorado	0	0	0	10	1	0	54	1
Idaho	0	28	0	0	4	0	49	6
Montana	0	0	0	0	2	0	0	3
Nevada	0	3	0	3	2	0	0	1
New Mexico	0	71	0	11	2	0	469	1
Utah	0	5	0	4	2	0	4	1
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	**0**	**2**	**0**	**2**	**1**	**0**	**9**	**1**
California	0	2	0	2	1	0	10	1
Oregon	0	11	0	47	2	0	34	1
Washington	0	0	0	0	1	0	30	1
Pacific Noncontiguous	**0**	**0**	**0**	**63**	**6**	**0**	**0**	**4**
Alaska	0	0	0	0	25	0	0	8
Hawaii	0	0	0	63	5	0	0	4
U.S. Total	**0**	**2**	**0**	**2**	**0**	**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.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, Year-to-Date through December 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**4**	**0**	**2**	**0**	**0**	**10**
Connecticut	0	8	0	3	0	0	70
Maine	0	17	0	15	0	0	15
Massachusetts	1	4	0	3	0	0	28
New Hampshire	0	40	0	2	0	0	15
Rhode Island	0	67	0	2	0	0	719
Vermont	0	234	0	269	0	0	34
Middle Atlantic	**2**	**6**	**43**	**1**	**27**	**0**	**2**
New Jersey	0	6	80	2	85	0	701
New York	0	5	0	2	0	0	2
Pennsylvania	2	18	51	1	20	0	9
East North Central	**0**	**4**	**5**	**1**	**10**	**0**	**15**
Illinois	0	4	0	3	80	0	81
Indiana	0	5	0	2	14	0	22
Michigan	2	29	15	2	0	0	28
Ohio	1	2	3	1	45	0	30
Wisconsin	0	36	0	2	0	0	22
West North Central	**1**	**9**	**80**	**3**	**180**	**0**	**8**
Iowa	2	15	80	9	0	0	33
Kansas	0	8	0	3	0	0	268
Minnesota	2	64	0	3	0	0	35
Missouri	1	1	0	7	0	0	17
Nebraska	2	69	0	17	0	0	26
North Dakota	2	12	0	38	180	0	0
South Dakota	0	150	0	23	0	0	1
South Atlantic	**0**	**3**	**0**	**0**	**0**	**0**	**7**
Delaware	0	23	0	8	0	0	0
District of Columbia	0	1,000	0	161	0	0	0
Florida	0	3	0	1	0	0	72
Georgia	0	19	0	1	0	0	13
Maryland	0	19	0	26	0	0	2
North Carolina	1	4	0	0	0	0	14
South Carolina	0	10	0	1	0	0	23
Virginia	1	7	0	0	0	0	24
West Virginia	0	0	0	4	0	0	19
East South Central	**0**	**6**	**0**	**1**	**63**	**0**	**4**
Alabama	1	22	0	1	114	0	7
Kentucky	0	5	0	2	0	0	5
Mississippi	0	12	0	1	0	0	0
Tennessee	0	6	0	1	0	0	8
West South Central	**0**	**3**	**2**	**0**	**4**	**0**	**10**
Arkansas	0	2	0	1	0	0	13
Louisiana	0	3	2	1	5	0	0
Oklahoma	1	18	0	1	0	0	27
Texas	0	4	38	1	5	0	41
Mountain	**1**	**24**	**0**	**1**	**5**	**0**	**4**
Arizona	0	29	0	0	0	0	2
Colorado	0	215	0	1	0	0	24
Idaho	79	482	0	3	0	0	10
Montana	5	54	0	44	0	0	4
Nevada	0	0	0	1	0	0	5
New Mexico	0	45	0	3	0	0	142
Utah	1	35	0	5	263	0	42
Wyoming	2	10	0	16	4	0	28
Pacific Contiguous	**0**	**19**	**0**	**1**	**6**	**0**	**1**
California	0	23	0	2	8	0	6
Oregon	0	8	0	0	0	0	2
Washington	0	47	0	2	0	0	1
Pacific Noncontiguous	**5**	**5**	**0**	**11**	**123**	**0**	**19**
Alaska	14	8	0	11	0	0	20
Hawaii	4	5	0	0	123	0	72
U.S. Total	**0**	**4**	**2**	**0**	**5**	**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.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, Year-to-Date through December 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**	**21**	**3**	**0**	**4**	**1**
Connecticut	0	0	0	96	5	0	6	1
Maine	0	0	0	0	1	0	14	4
Massachusetts	0	0	0	23	8	0	5	2
New Hampshire	0	0	0	0	11	0	31	2
Rhode Island	0	0	0	132	13	0	0	2
Vermont	0	0	0	57	14	0	0	18
Middle Atlantic	**0**	**0**	**0**	**18**	**1**	**0**	**4**	**1**
New Jersey	0	0	0	20	8	0	5	1
New York	0	0	0	39	1	0	7	1
Pennsylvania	0	0	0	67	1	0	6	1
East North Central	**0**	**0**	**0**	**28**	**1**	**0**	**9**	**0**
Illinois	0	0	0	73	0	0	28	0
Indiana	0	0	0	35	1	0	5	1
Michigan	0	0	0	128	2	0	13	1
Ohio	0	0	0	65	3	0	61	1
Wisconsin	0	0	0	262	2	0	42	1
West North Central	**0**	**0**	**0**	**39**	**0**	**0**	**11**	**0**
Iowa	0	0	0	337	0	0	179	1
Kansas	0	0	0	452	0	0	0	0
Minnesota	0	0	0	46	1	0	11	1
Missouri	0	0	0	85	2	0	0	1
Nebraska	0	0	0	226	1	0	0	2
North Dakota	0	0	0	0	0	0	37	1
South Dakota	0	0	0	452	1	0	0	1
South Atlantic	**0**	**0**	**0**	**5**	**1**	**0**	**3**	**0**
Delaware	0	0	0	73	29	0	0	7
District of Columbia	0	0	0	0	0	0	0	161
Florida	0	0	0	3	3	0	3	0
Georgia	0	0	0	6	2	0	0	0
Maryland	0	0	0	35	4	0	0	1
North Carolina	0	0	0	9	5	0	16	0
South Carolina	0	0	0	147	6	0	19	0
Virginia	0	0	0	58	2	0	6	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**23**	**2**	**0**	**14**	**0**
Alabama	0	0	0	0	3	0	0	1
Kentucky	0	0	0	0	6	0	0	0
Mississippi	0	0	0	257	3	0	180	0
Tennessee	0	0	0	52	7	0	0	1
West South Central	**0**	**0**	**0**	**6**	**0**	**0**	**13**	**0**
Arkansas	0	0	0	125	3	0	0	0
Louisiana	0	0	0	0	4	0	17	1
Oklahoma	0	0	0	0	0	0	29	0
Texas	0	0	0	5	0	0	15	0
Mountain	**0**	**3**	**0**	**2**	**1**	**0**	**7**	**1**
Arizona	0	0	0	3	3	0	0	0
Colorado	0	0	0	10	1	0	54	1
Idaho	0	28	0	0	4	0	49	6
Montana	0	0	0	0	2	0	0	3
Nevada	0	3	0	3	2	0	0	1
New Mexico	0	71	0	11	2	0	469	1
Utah	0	5	0	4	2	0	4	1
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	**0**	**2**	**0**	**2**	**1**	**0**	**9**	**1**
California	0	2	0	2	1	0	10	1
Oregon	0	11	0	47	2	0	34	1
Washington	0	0	0	0	1	0	30	1
Pacific Noncontiguous	**0**	**0**	**0**	**63**	**6**	**0**	**0**	**4**
Alaska	0	0	0	0	25	0	0	8
Hawaii	0	0	0	63	5	0	0	4
U.S. Total	**0**	**2**	**0**	**2**	**0**	**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.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, December 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**10**	**0**	**0**	**0**	**0**	**30**
Connecticut	0	42	0	0	0	0	245
Maine	0	411	0	0	0	0	0
Massachusetts	0	13	0	0	0	0	87
New Hampshire	0	6	0	0	0	0	23
Rhode Island	0	33	0	0	0	0	0
Vermont	0	141	0	0	0	0	53
Middle Atlantic	**0**	**5**	**0**	**9**	**0**	**0**	**1**
New Jersey	0	242	0	245	0	0	0
New York	0	5	0	9	0	0	1
Pennsylvania	0	178	0	653	0	0	150
East North Central	**1**	**10**	**0**	**1**	**20**	**0**	**16**
Illinois	0	46	0	5	0	0	189
Indiana	0	4	0	1	340	0	22
Michigan	2	31	0	4	0	0	30
Ohio	2	4	0	1	0	0	10
Wisconsin	0	30	0	2	0	0	24
West North Central	**1**	**7**	**0**	**4**	**0**	**0**	**8**
Iowa	2	15	0	9	0	0	33
Kansas	0	8	0	1	0	0	0
Minnesota	2	38	0	3	0	0	44
Missouri	1	1	0	9	0	0	17
Nebraska	2	69	0	14	0	0	26
North Dakota	2	11	0	39	0	0	0
South Dakota	0	152	0	23	0	0	1
South Atlantic	**0**	**2**	**0**	**0**	**0**	**0**	**9**
Delaware	0	221	0	331	0	0	0
Florida	0	3	0	0	0	0	72
Georgia	0	16	0	0	0	0	13
Maryland	0	36	0	0	0	0	0
North Carolina	0	3	0	0	0	0	14
South Carolina	0	12	0	0	0	0	23
Virginia	0	5	0	0	0	0	24
West Virginia	0	0	0	0	0	0	55
East South Central	**0**	**3**	**0**	**1**	**0**	**0**	**4**
Alabama	0	0	0	4	0	0	7
Kentucky	0	5	0	0	0	0	5
Mississippi	0	12	0	0	0	0	0
Tennessee	0	1	0	0	0	0	8
West South Central	**0**	**1**	**0**	**1**	**0**	**0**	**13**
Arkansas	0	0	0	5	0	0	13
Louisiana	0	3	0	0	0	0	0
Oklahoma	0	8	0	1	0	0	27
Texas	0	1	0	2	0	0	42
Mountain	**1**	**27**	**0**	**1**	**0**	**0**	**4**
Arizona	0	29	0	0	0	0	2
Colorado	0	216	0	0	0	0	25
Idaho	0	482	0	6	0	0	10
Montana	139	1,419	0	47	0	0	4
Nevada	0	0	0	0	0	0	0
New Mexico	0	45	0	6	0	0	142
Utah	0	3	0	5	0	0	42
Wyoming	2	4	0	98	0	0	27
Pacific Contiguous	**0**	**27**	**0**	**2**	**0**	**0**	**1**
California	0	25	0	3	0	0	5
Oregon	0	0	0	0	0	0	2
Washington	0	373	0	3	0	0	1
Pacific Noncontiguous	**0**	**3**	**0**	**11**	**0**	**0**	**20**
Alaska	0	9	0	11	0	0	20
Hawaii	0	2	0	0	0	0	226
U.S. Total	**0**	**2**	**0**	**0**	**20**	**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, December 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**	**78**	**5**	**0**	**0**	**6**
Connecticut	0	0	0	305	305	0	0	118
Maine	0	0	0	0	0	0	0	411
Massachusetts	0	0	0	144	43	0	0	43
New Hampshire	0	0	0	0	0	0	0	2
Rhode Island	0	0	0	0	0	0	0	33
Vermont	0	0	0	93	6	0	0	21
Middle Atlantic	**0**	**0**	**0**	**64**	**64**	**0**	**0**	**2**
New Jersey	0	0	0	64	64	0	0	28
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	144
East North Central	**0**	**0**	**0**	**61**	**1**	**0**	**0**	**1**
Illinois	0	0	0	376	52	0	0	2
Indiana	0	0	0	76	15	0	0	0
Michigan	0	0	0	128	1	0	0	1
Ohio	0	0	0	178	79	0	0	2
Wisconsin	0	0	0	0	0	0	0	1
West North Central	**0**	**0**	**0**	**153**	**0**	**0**	**7**	**0**
Iowa	0	0	0	337	0	0	0	1
Kansas	0	0	0	0	0	0	0	0
Minnesota	0	0	0	298	2	0	0	1
Missouri	0	0	0	0	37	0	0	1
Nebraska	0	0	0	0	8	0	0	2
North Dakota	0	0	0	0	1	0	37	2
South Dakota	0	0	0	0	1	0	0	1
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**0**	**0**
Delaware	0	0	0	197	197	0	0	284
Florida	0	0	0	2	2	0	0	0
Georgia	0	0	0	9	9	0	0	0
Maryland	0	0	0	176	176	0	0	49
North Carolina	0	0	0	25	25	0	0	0
South Carolina	0	0	0	0	5	0	0	0
Virginia	0	0	0	59	2	0	0	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**23**	**0**	**0**	**0**
Alabama	0	0	0	0	0	0	0	1
Kentucky	0	0	0	0	23	0	0	0
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**141**	**0**	**0**	**0**	**0**
Arkansas	0	0	0	452	452	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	0	0	0	1
Mountain	**0**	**0**	**0**	**17**	**2**	**0**	**471**	**1**
Arizona	0	0	0	16	16	0	0	0
Colorado	0	0	0	0	4	0	0	1
Idaho	0	0	0	0	67	0	0	9
Montana	0	0	0	0	0	0	0	5
Nevada	0	0	0	117	117	0	0	0
New Mexico	0	0	0	39	39	0	469	1
Utah	0	0	0	0	0	0	0	1
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	**0**	**4**	**0**	**24**	**1**	**0**	**396**	**1**
California	0	0	0	24	3	0	391	2
Oregon	0	205	0	194	5	0	0	2
Washington	0	0	0	0	1	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**93**	**29**	**0**	**0**	**4**
Alaska	0	0	0	0	34	0	0	8
Hawaii	0	0	0	93	52	0	0	3
U.S. Total	**0**	**3**	**0**	**5**	**0**	**0**	**5**	**0**

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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 December 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**10**	**0**	**0**	**0**	**0**	**30**
Connecticut	0	42	0	0	0	0	245
Maine	0	411	0	0	0	0	0
Massachusetts	0	13	0	0	0	0	87
New Hampshire	0	6	0	0	0	0	23
Rhode Island	0	33	0	0	0	0	0
Vermont	0	141	0	0	0	0	53
Middle Atlantic	**0**	**5**	**0**	**9**	**0**	**0**	**1**
New Jersey	0	242	0	245	0	0	0
New York	0	5	0	9	0	0	1
Pennsylvania	0	178	0	653	0	0	150
East North Central	**1**	**10**	**0**	**1**	**20**	**0**	**16**
Illinois	0	46	0	5	0	0	189
Indiana	0	4	0	1	340	0	22
Michigan	2	31	0	4	0	0	30
Ohio	2	4	0	1	0	0	10
Wisconsin	0	30	0	2	0	0	24
West North Central	**1**	**7**	**0**	**4**	**0**	**0**	**8**
Iowa	2	15	0	9	0	0	33
Kansas	0	8	0	1	0	0	0
Minnesota	2	38	0	3	0	0	44
Missouri	1	1	0	9	0	0	17
Nebraska	2	69	0	14	0	0	26
North Dakota	2	11	0	39	0	0	0
South Dakota	0	152	0	23	0	0	1
South Atlantic	**0**	**2**	**0**	**0**	**0**	**0**	**9**
Delaware	0	221	0	331	0	0	0
Florida	0	3	0	0	0	0	72
Georgia	0	16	0	0	0	0	13
Maryland	0	36	0	0	0	0	0
North Carolina	0	3	0	0	0	0	14
South Carolina	0	12	0	0	0	0	23
Virginia	0	5	0	0	0	0	24
West Virginia	0	0	0	0	0	0	55
East South Central	**0**	**3**	**0**	**1**	**0**	**0**	**4**
Alabama	0	0	0	4	0	0	7
Kentucky	0	5	0	0	0	0	5
Mississippi	0	12	0	0	0	0	0
Tennessee	0	1	0	0	0	0	8
West South Central	**0**	**1**	**0**	**1**	**0**	**0**	**13**
Arkansas	0	0	0	5	0	0	13
Louisiana	0	3	0	0	0	0	0
Oklahoma	0	8	0	1	0	0	27
Texas	0	1	0	2	0	0	42
Mountain	**1**	**27**	**0**	**1**	**0**	**0**	**4**
Arizona	0	29	0	0	0	0	2
Colorado	0	216	0	0	0	0	25
Idaho	0	482	0	6	0	0	10
Montana	139	1,419	0	47	0	0	4
Nevada	0	0	0	0	0	0	0
New Mexico	0	45	0	6	0	0	142
Utah	0	3	0	5	0	0	42
Wyoming	2	4	0	98	0	0	27
Pacific Contiguous	**0**	**27**	**0**	**2**	**0**	**0**	**1**
California	0	25	0	3	0	0	5
Oregon	0	0	0	0	0	0	2
Washington	0	373	0	3	0	0	1
Pacific Noncontiguous	**0**	**3**	**0**	**11**	**0**	**0**	**20**
Alaska	0	9	0	11	0	0	20
Hawaii	0	2	0	0	0	0	226
U.S. Total	**0**	**2**	**0**	**0**	**20**	**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 December 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**	**78**	**5**	**0**	**0**	**6**
Connecticut	0	0	0	305	305	0	0	118
Maine	0	0	0	0	0	0	0	411
Massachusetts	0	0	0	144	43	0	0	43
New Hampshire	0	0	0	0	0	0	0	2
Rhode Island	0	0	0	0	0	0	0	33
Vermont	0	0	0	93	6	0	0	21
Middle Atlantic	**0**	**0**	**0**	**64**	**64**	**0**	**0**	**2**
New Jersey	0	0	0	64	64	0	0	28
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	144
East North Central	**0**	**0**	**0**	**61**	**1**	**0**	**0**	**1**
Illinois	0	0	0	376	52	0	0	2
Indiana	0	0	0	76	15	0	0	0
Michigan	0	0	0	128	1	0	0	1
Ohio	0	0	0	178	79	0	0	2
Wisconsin	0	0	0	0	0	0	0	1
West North Central	**0**	**0**	**0**	**153**	**0**	**0**	**7**	**0**
Iowa	0	0	0	337	0	0	0	1
Kansas	0	0	0	0	0	0	0	0
Minnesota	0	0	0	298	2	0	0	1
Missouri	0	0	0	0	37	0	0	1
Nebraska	0	0	0	0	8	0	0	2
North Dakota	0	0	0	0	1	0	37	2
South Dakota	0	0	0	0	1	0	0	1
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**0**	**0**
Delaware	0	0	0	197	197	0	0	284
Florida	0	0	0	2	2	0	0	0
Georgia	0	0	0	9	9	0	0	0
Maryland	0	0	0	176	176	0	0	49
North Carolina	0	0	0	25	25	0	0	0
South Carolina	0	0	0	0	5	0	0	0
Virginia	0	0	0	59	2	0	0	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**23**	**0**	**0**	**0**
Alabama	0	0	0	0	0	0	0	1
Kentucky	0	0	0	0	23	0	0	0
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**141**	**0**	**0**	**0**	**0**
Arkansas	0	0	0	452	452	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	0	0	0	1
Mountain	**0**	**0**	**0**	**17**	**2**	**0**	**471**	**1**
Arizona	0	0	0	16	16	0	0	0
Colorado	0	0	0	0	4	0	0	1
Idaho	0	0	0	0	67	0	0	9
Montana	0	0	0	0	0	0	0	5
Nevada	0	0	0	117	117	0	0	0
New Mexico	0	0	0	39	39	0	469	1
Utah	0	0	0	0	0	0	0	1
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	**0**	**4**	**0**	**24**	**1**	**0**	**396**	**1**
California	0	0	0	24	3	0	391	2
Oregon	0	205	0	194	5	0	0	2
Washington	0	0	0	0	1	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**93**	**29**	**0**	**0**	**4**
Alaska	0	0	0	0	34	0	0	8
Hawaii	0	0	0	93	52	0	0	3
U.S. Total	**0**	**3**	**0**	**5**	**0**	**0**	**5**	**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, December 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**2**	**0**	**1**	**0**	**0**	**12**
Connecticut	0	5	0	2	0	0	72
Maine	0	6	0	2	0	0	16
Massachusetts	0	2	0	3	0	0	28
New Hampshire	0	1,110	0	0	0	0	18
Rhode Island	0	409	0	1	0	0	719
Vermont	0	0	0	0	0	0	43
Middle Atlantic	**2**	**8**	**0**	**1**	**4,242**	**0**	**10**
New Jersey	0	5	0	2	0	0	701
New York	0	10	0	2	0	0	17
Pennsylvania	2	18	0	1	4,242	0	9
East North Central	**0**	**0**	**0**	**1**	**13**	**0**	**47**
Illinois	0	0	0	3	0	0	61
Indiana	0	0	0	6	0	0	0
Michigan	0	0	0	2	0	0	109
Ohio	0	1	0	1	49	0	77
Wisconsin	0	0	0	0	0	0	103
West North Central	**142**	**517**	**0**	**5**	**0**	**0**	**72**
Iowa	0	122	0	6,703	0	0	415
Kansas	0	0	0	0	0	0	268
Minnesota	0	646	0	7	0	0	75
Missouri	142	2,182	0	6	0	0	0
South Dakota	0	603	0	0	0	0	0
South Atlantic	**1**	**11**	**0**	**2**	**0**	**0**	**6**
Delaware	0	21	0	10	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	247	0	9	0	0	0
Georgia	0	59	0	3	0	0	384
Maryland	0	20	0	20	0	0	2
North Carolina	263	27	0	0	0	0	184
South Carolina	0	689	0	26	0	0	150
Virginia	0	20	0	1	0	0	133
West Virginia	1	0	0	27	0	0	10
East South Central	**0**	**34**	**0**	**0**	**0**	**0**	**390**
Alabama	0	34	0	0	0	0	0
Kentucky	0	0	0	0	0	0	390
Mississippi	0	0	0	0	0	0	0
Tennessee	0	785	0	0	0	0	0
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**11**
Arkansas	0	0	0	0	0	0	172
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	1	0	0	185
Mountain	**5**	**13**	**0**	**2**	**0**	**0**	**39**
Arizona	0	0	0	0	0	0	0
Colorado	194	0	0	3	0	0	84
Idaho	0	0	0	0	0	0	51
Montana	4	9	0	135	0	0	91
Nevada	0	0	0	9	0	0	374
New Mexico	0	0	0	2	0	0	0
Utah	64	446	0	128	0	0	368
Wyoming	79	0	0	1,054	0	0	352
Pacific Contiguous	**0**	**8**	**0**	**1**	**0**	**0**	**27**
California	0	10	0	2	0	0	35
Oregon	0	0	0	1	0	0	67
Washington	0	13	0	0	0	0	54
Pacific Noncontiguous	**4**	**3**	**0**	**0**	**0**	**0**	**0**
Alaska	51	0	0	0	0	0	0
Hawaii	0	3	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**0**	**7**	**0**	**6**

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, December 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**	**22**	**4**	**0**	**4**	**1**
Connecticut	0	0	0	100	5	0	6	1
Maine	0	0	0	0	1	0	8	5
Massachusetts	0	0	0	23	8	0	5	2
New Hampshire	0	0	0	0	13	0	31	2
Rhode Island	0	0	0	132	13	0	0	1
Vermont	0	0	0	70	31	0	0	28
Middle Atlantic	**0**	**0**	**0**	**19**	**1**	**0**	**3**	**0**
New Jersey	0	0	0	22	9	0	7	1
New York	0	0	0	40	1	0	4	1
Pennsylvania	0	0	0	73	1	0	6	1
East North Central	**0**	**0**	**0**	**32**	**1**	**0**	**18**	**0**
Illinois	0	0	0	74	0	0	0	0
Indiana	0	0	0	39	1	0	0	2
Michigan	0	0	0	0	3	0	16	1
Ohio	0	0	0	73	3	0	158	0
Wisconsin	0	0	0	262	6	0	0	1
West North Central	**0**	**0**	**0**	**41**	**1**	**0**	**20**	**1**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	452	0	0	0	0
Minnesota	0	0	0	46	2	0	20	2
Missouri	0	0	0	95	2	0	0	4
Nebraska	0	0	0	226	1	0	0	1
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	452	1	0	0	1
South Atlantic	**0**	**0**	**0**	**7**	**3**	**0**	**3**	**1**
Delaware	0	0	0	79	31	0	0	9
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	74	4	0	3	4
Georgia	0	0	0	7	6	0	0	3
Maryland	0	0	0	37	4	0	0	1
North Carolina	0	0	0	10	7	0	19	5
South Carolina	0	0	0	147	38	0	176	22
Virginia	0	0	0	0	6	0	0	1
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**25**	**8**	**0**	**0**	**0**
Alabama	0	0	0	0	5	0	0	0
Kentucky	0	0	0	0	89	0	0	8
Mississippi	0	0	0	257	76	0	0	0
Tennessee	0	0	0	53	22	0	0	22
West South Central	**0**	**0**	**0**	**6**	**0**	**0**	**27**	**0**
Arkansas	0	0	0	130	30	0	0	1
Louisiana	0	0	0	0	24	0	0	0
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	5	0	0	99	0
Mountain	**0**	**3**	**0**	**2**	**1**	**0**	**3**	**2**
Arizona	0	0	0	3	2	0	0	1
Colorado	0	0	0	10	1	0	67	2
Idaho	0	28	0	0	4	0	0	5
Montana	0	0	0	0	2	0	0	3
Nevada	0	3	0	2	2	0	0	2
New Mexico	0	71	0	9	1	0	0	1
Utah	0	10	0	4	3	0	233	11
Wyoming	0	0	0	0	2	0	0	15
Pacific Contiguous	**0**	**2**	**0**	**2**	**1**	**0**	**11**	**1**
California	0	2	0	2	1	0	12	1
Oregon	0	0	0	48	3	0	34	2
Washington	0	0	0	0	1	0	30	1
Pacific Noncontiguous	**0**	**0**	**0**	**85**	**7**	**0**	**0**	**3**
Alaska	0	0	0	0	48	0	0	37
Hawaii	0	0	0	85	6	0	0	2
U.S. Total	**0**	**2**	**0**	**2**	**0**	**0**	**2**	**0**

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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 December 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**2**	**0**	**1**	**0**	**0**	**12**
Connecticut	0	5	0	2	0	0	72
Maine	0	6	0	2	0	0	16
Massachusetts	0	2	0	3	0	0	28
New Hampshire	0	1,110	0	0	0	0	18
Rhode Island	0	409	0	1	0	0	719
Vermont	0	0	0	0	0	0	43
Middle Atlantic	**2**	**8**	**0**	**1**	**4,242**	**0**	**10**
New Jersey	0	5	0	2	0	0	701
New York	0	10	0	2	0	0	17
Pennsylvania	2	18	0	1	4,242	0	9
East North Central	**0**	**0**	**0**	**1**	**13**	**0**	**47**
Illinois	0	0	0	3	0	0	61
Indiana	0	0	0	6	0	0	0
Michigan	0	0	0	2	0	0	109
Ohio	0	1	0	1	49	0	77
Wisconsin	0	0	0	0	0	0	103
West North Central	**142**	**517**	**0**	**5**	**0**	**0**	**72**
Iowa	0	122	0	6,703	0	0	415
Kansas	0	0	0	0	0	0	268
Minnesota	0	646	0	7	0	0	75
Missouri	142	2,182	0	6	0	0	0
South Dakota	0	603	0	0	0	0	0
South Atlantic	**1**	**11**	**0**	**2**	**0**	**0**	**6**
Delaware	0	21	0	10	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	247	0	9	0	0	0
Georgia	0	59	0	3	0	0	384
Maryland	0	20	0	20	0	0	2
North Carolina	263	27	0	0	0	0	184
South Carolina	0	689	0	26	0	0	150
Virginia	0	20	0	1	0	0	133
West Virginia	1	0	0	27	0	0	10
East South Central	**0**	**34**	**0**	**0**	**0**	**0**	**390**
Alabama	0	34	0	0	0	0	0
Kentucky	0	0	0	0	0	0	390
Mississippi	0	0	0	0	0	0	0
Tennessee	0	785	0	0	0	0	0
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**11**
Arkansas	0	0	0	0	0	0	172
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	1	0	0	185
Mountain	**5**	**13**	**0**	**2**	**0**	**0**	**39**
Arizona	0	0	0	0	0	0	0
Colorado	194	0	0	3	0	0	84
Idaho	0	0	0	0	0	0	51
Montana	4	9	0	135	0	0	91
Nevada	0	0	0	9	0	0	374
New Mexico	0	0	0	2	0	0	0
Utah	64	446	0	128	0	0	368
Wyoming	79	0	0	1,054	0	0	352
Pacific Contiguous	**0**	**8**	**0**	**1**	**0**	**0**	**27**
California	0	10	0	2	0	0	35
Oregon	0	0	0	1	0	0	67
Washington	0	13	0	0	0	0	54
Pacific Noncontiguous	**4**	**3**	**0**	**0**	**0**	**0**	**0**
Alaska	51	0	0	0	0	0	0
Hawaii	0	3	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**0**	**7**	**0**	**6**

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 December 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**	**22**	**4**	**0**	**4**	**1**
Connecticut	0	0	0	100	5	0	6	1
Maine	0	0	0	0	1	0	8	5
Massachusetts	0	0	0	23	8	0	5	2
New Hampshire	0	0	0	0	13	0	31	2
Rhode Island	0	0	0	132	13	0	0	1
Vermont	0	0	0	70	31	0	0	28
Middle Atlantic	**0**	**0**	**0**	**19**	**1**	**0**	**3**	**0**
New Jersey	0	0	0	22	9	0	7	1
New York	0	0	0	40	1	0	4	1
Pennsylvania	0	0	0	73	1	0	6	1
East North Central	**0**	**0**	**0**	**32**	**1**	**0**	**18**	**0**
Illinois	0	0	0	74	0	0	0	0
Indiana	0	0	0	39	1	0	0	2
Michigan	0	0	0	0	3	0	16	1
Ohio	0	0	0	73	3	0	158	0
Wisconsin	0	0	0	262	6	0	0	1
West North Central	**0**	**0**	**0**	**41**	**1**	**0**	**20**	**1**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	452	0	0	0	0
Minnesota	0	0	0	46	2	0	20	2
Missouri	0	0	0	95	2	0	0	4
Nebraska	0	0	0	226	1	0	0	1
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	452	1	0	0	1
South Atlantic	**0**	**0**	**0**	**7**	**3**	**0**	**3**	**1**
Delaware	0	0	0	79	31	0	0	9
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	74	4	0	3	4
Georgia	0	0	0	7	6	0	0	3
Maryland	0	0	0	37	4	0	0	1
North Carolina	0	0	0	10	7	0	19	5
South Carolina	0	0	0	147	38	0	176	22
Virginia	0	0	0	0	6	0	0	1
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**25**	**8**	**0**	**0**	**0**
Alabama	0	0	0	0	5	0	0	0
Kentucky	0	0	0	0	89	0	0	8
Mississippi	0	0	0	257	76	0	0	0
Tennessee	0	0	0	53	22	0	0	22
West South Central	**0**	**0**	**0**	**6**	**0**	**0**	**27**	**0**
Arkansas	0	0	0	130	30	0	0	1
Louisiana	0	0	0	0	24	0	0	0
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	5	0	0	99	0
Mountain	**0**	**3**	**0**	**2**	**1**	**0**	**3**	**2**
Arizona	0	0	0	3	2	0	0	1
Colorado	0	0	0	10	1	0	67	2
Idaho	0	28	0	0	4	0	0	5
Montana	0	0	0	0	2	0	0	3
Nevada	0	3	0	2	2	0	0	2
New Mexico	0	71	0	9	1	0	0	1
Utah	0	10	0	4	3	0	233	11
Wyoming	0	0	0	0	2	0	0	15
Pacific Contiguous	**0**	**2**	**0**	**2**	**1**	**0**	**11**	**1**
California	0	2	0	2	1	0	12	1
Oregon	0	0	0	48	3	0	34	2
Washington	0	0	0	0	1	0	30	1
Pacific Noncontiguous	**0**	**0**	**0**	**85**	**7**	**0**	**0**	**3**
Alaska	0	0	0	0	48	0	0	37
Hawaii	0	0	0	85	6	0	0	2
U.S. Total	**0**	**2**	**0**	**2**	**0**	**0**	**2**	**0**

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Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, December 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**66**	**0**	**31**	**0**	**0**	**501**
Connecticut	0	152	0	62	0	0	0
Maine	0	388	0	222	0	0	0
Massachusetts	0	92	0	29	0	0	501
New Hampshire	0	170	0	241	0	0	0
Rhode Island	0	167	0	192	0	0	0
Vermont	0	863	0	3,193	0	0	0
Middle Atlantic	**0**	**43**	**0**	**30**	**0**	**0**	**575**
New Jersey	0	249	0	86	0	0	0
New York	0	44	0	30	0	0	575
Pennsylvania	0	223	0	133	0	0	0
East North Central	**29**	**158**	**0**	**18**	**0**	**0**	**1,179**
Illinois	37	439	0	32	0	0	1,179
Indiana	48	768	0	56	0	0	0
Michigan	0	52	0	18	0	0	0
Ohio	0	406	0	140	0	0	0
Wisconsin	0	8,540	0	57	0	0	0
West North Central	**30**	**122**	**0**	**36**	**0**	**0**	**0**
Iowa	53	615	0	66	0	0	0
Minnesota	287	129	0	54	0	0	0
Missouri	0	517	0	0	0	0	0
Nebraska	0	0	0	518	0	0	0
North Dakota	0	913	0	0	0	0	0
South Dakota	0	768	0	0	0	0	0
South Atlantic	**31**	**74**	**0**	**55**	**0**	**0**	**200**
District of Columbia	0	1,000	0	161	0	0	0
Florida	0	0	0	178	0	0	0
Georgia	0	54	0	0	0	0	0
Maryland	0	362	0	66	0	0	0
North Carolina	0	185	0	0	0	0	191
South Carolina	0	326	0	0	0	0	801
Virginia	387	129	0	395	0	0	0
East South Central	**0**	**0**	**0**	**102**	**0**	**0**	**0**
Mississippi	0	0	0	438	0	0	0
Tennessee	0	0	0	105	0	0	0
West South Central	**0**	**289**	**0**	**25**	**0**	**0**	**0**
Arkansas	0	0	0	633	0	0	0
Louisiana	0	0	0	64	0	0	0
Oklahoma	0	1,528	0	0	0	0	0
Texas	0	292	0	26	0	0	0
Mountain	**0**	**817**	**0**	**25**	**0**	**0**	**458**
Arizona	0	817	0	43	0	0	0
Colorado	0	0	0	0	0	0	458
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	59	0	0	0
New Mexico	0	0	0	45	0	0	0
Utah	0	0	0	55	0	0	0
Pacific Contiguous	**0**	**261**	**0**	**13**	**0**	**0**	**276**
California	0	345	0	13	0	0	276
Oregon	0	3,574	0	79	0	0	0
Washington	0	214	0	132	0	0	0
Pacific Noncontiguous	**30**	**96**	**0**	**437**	**0**	**0**	**0**
Alaska	30	116	0	437	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**17**	**36**	**0**	**10**	**0**	**0**	**169**

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, December 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**	**236**	**28**	**0**	**44**	**23**
Connecticut	0	0	0	0	0	0	0	61
Maine	0	0	0	0	38	0	44	35
Massachusetts	0	0	0	236	63	0	0	26
New Hampshire	0	0	0	0	65	0	0	89
Rhode Island	0	0	0	0	126	0	0	136
Vermont	0	0	0	0	219	0	0	331
Middle Atlantic	**0**	**0**	**0**	**45**	**13**	**0**	**16**	**16**
New Jersey	0	0	0	46	13	0	0	25
New York	0	0	0	235	25	0	30	20
Pennsylvania	0	0	0	332	50	0	0	92
East North Central	**0**	**0**	**0**	**299**	**19**	**0**	**22**	**14**
Illinois	0	0	0	0	156	0	0	27
Indiana	0	0	0	0	81	0	100	40
Michigan	0	0	0	0	17	0	21	13
Ohio	0	0	0	299	123	0	0	124
Wisconsin	0	0	0	0	60	0	0	46
West North Central	**0**	**0**	**0**	**452**	**22**	**0**	**75**	**17**
Iowa	0	0	0	0	58	0	0	34
Minnesota	0	0	0	0	41	0	75	33
Missouri	0	0	0	452	11	0	0	3
Nebraska	0	0	0	0	91	0	0	96
North Dakota	0	0	0	0	0	0	0	913
South Dakota	0	0	0	0	0	0	0	768
South Atlantic	**0**	**0**	**0**	**50**	**15**	**0**	**17**	**23**
Delaware	0	0	0	573	150	0	0	150
District of Columbia	0	0	0	0	0	0	0	161
Florida	0	0	0	388	53	0	0	75
Georgia	0	0	0	294	135	0	0	73
Maryland	0	0	0	180	57	0	0	61
North Carolina	0	0	0	53	34	0	0	19
South Carolina	0	0	0	0	0	0	0	726
Virginia	0	0	0	0	14	0	17	13
East South Central	**0**	**0**	**0**	**321**	**321**	**0**	**0**	**101**
Mississippi	0	0	0	0	0	0	0	438
Tennessee	0	0	0	321	321	0	0	103
West South Central	**0**	**0**	**0**	**363**	**46**	**0**	**0**	**23**
Arkansas	0	0	0	0	181	0	0	255
Louisiana	0	0	0	0	0	0	0	64
Oklahoma	0	0	0	0	0	0	0	1,528
Texas	0	0	0	363	47	0	0	24
Mountain	**0**	**0**	**0**	**56**	**45**	**0**	**0**	**24**
Arizona	0	0	0	100	100	0	0	41
Colorado	0	0	0	148	130	0	0	239
Idaho	0	0	0	0	128	0	0	128
Nevada	0	0	0	71	71	0	0	46
New Mexico	0	0	0	0	269	0	0	45
Utah	0	0	0	0	98	0	0	50
Pacific Contiguous	**0**	**0**	**0**	**50**	**11**	**0**	**0**	**10**
California	0	0	0	50	11	0	0	10
Oregon	0	0	0	0	84	0	0	64
Washington	0	0	0	0	87	0	0	83
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**8**	**0**	**0**	**7**
Alaska	0	0	0	0	52	0	0	26
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**25**	**7**	**0**	**9**	**6**

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 December 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**66**	**0**	**31**	**0**	**0**	**501**
Connecticut	0	152	0	62	0	0	0
Maine	0	388	0	222	0	0	0
Massachusetts	0	92	0	29	0	0	501
New Hampshire	0	170	0	241	0	0	0
Rhode Island	0	167	0	192	0	0	0
Vermont	0	863	0	3,193	0	0	0
Middle Atlantic	**0**	**43**	**0**	**30**	**0**	**0**	**575**
New Jersey	0	249	0	86	0	0	0
New York	0	44	0	30	0	0	575
Pennsylvania	0	223	0	133	0	0	0
East North Central	**29**	**158**	**0**	**18**	**0**	**0**	**1,179**
Illinois	37	439	0	32	0	0	1,179
Indiana	48	768	0	56	0	0	0
Michigan	0	52	0	18	0	0	0
Ohio	0	406	0	140	0	0	0
Wisconsin	0	8,540	0	57	0	0	0
West North Central	**30**	**122**	**0**	**36**	**0**	**0**	**0**
Iowa	53	615	0	66	0	0	0
Minnesota	287	129	0	54	0	0	0
Missouri	0	517	0	0	0	0	0
Nebraska	0	0	0	518	0	0	0
North Dakota	0	913	0	0	0	0	0
South Dakota	0	768	0	0	0	0	0
South Atlantic	**31**	**74**	**0**	**55**	**0**	**0**	**200**
District of Columbia	0	1,000	0	161	0	0	0
Florida	0	0	0	178	0	0	0
Georgia	0	54	0	0	0	0	0
Maryland	0	362	0	66	0	0	0
North Carolina	0	185	0	0	0	0	191
South Carolina	0	326	0	0	0	0	801
Virginia	387	129	0	395	0	0	0
East South Central	**0**	**0**	**0**	**102**	**0**	**0**	**0**
Mississippi	0	0	0	438	0	0	0
Tennessee	0	0	0	105	0	0	0
West South Central	**0**	**289**	**0**	**25**	**0**	**0**	**0**
Arkansas	0	0	0	633	0	0	0
Louisiana	0	0	0	64	0	0	0
Oklahoma	0	1,528	0	0	0	0	0
Texas	0	292	0	26	0	0	0
Mountain	**0**	**817**	**0**	**25**	**0**	**0**	**458**
Arizona	0	817	0	43	0	0	0
Colorado	0	0	0	0	0	0	458
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	59	0	0	0
New Mexico	0	0	0	45	0	0	0
Utah	0	0	0	55	0	0	0
Pacific Contiguous	**0**	**261**	**0**	**13**	**0**	**0**	**276**
California	0	345	0	13	0	0	276
Oregon	0	3,574	0	79	0	0	0
Washington	0	214	0	132	0	0	0
Pacific Noncontiguous	**30**	**96**	**0**	**437**	**0**	**0**	**0**
Alaska	30	116	0	437	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**17**	**36**	**0**	**10**	**0**	**0**	**169**

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 December 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**	**236**	**28**	**0**	**44**	**23**
Connecticut	0	0	0	0	0	0	0	61
Maine	0	0	0	0	38	0	44	35
Massachusetts	0	0	0	236	63	0	0	26
New Hampshire	0	0	0	0	65	0	0	89
Rhode Island	0	0	0	0	126	0	0	136
Vermont	0	0	0	0	219	0	0	331
Middle Atlantic	**0**	**0**	**0**	**45**	**13**	**0**	**16**	**16**
New Jersey	0	0	0	46	13	0	0	25
New York	0	0	0	235	25	0	30	20
Pennsylvania	0	0	0	332	50	0	0	92
East North Central	**0**	**0**	**0**	**299**	**19**	**0**	**22**	**14**
Illinois	0	0	0	0	156	0	0	27
Indiana	0	0	0	0	81	0	100	40
Michigan	0	0	0	0	17	0	21	13
Ohio	0	0	0	299	123	0	0	124
Wisconsin	0	0	0	0	60	0	0	46
West North Central	**0**	**0**	**0**	**452**	**22**	**0**	**75**	**17**
Iowa	0	0	0	0	58	0	0	34
Minnesota	0	0	0	0	41	0	75	33
Missouri	0	0	0	452	11	0	0	3
Nebraska	0	0	0	0	91	0	0	96
North Dakota	0	0	0	0	0	0	0	913
South Dakota	0	0	0	0	0	0	0	768
South Atlantic	**0**	**0**	**0**	**50**	**15**	**0**	**17**	**23**
Delaware	0	0	0	573	150	0	0	150
District of Columbia	0	0	0	0	0	0	0	161
Florida	0	0	0	388	53	0	0	75
Georgia	0	0	0	294	135	0	0	73
Maryland	0	0	0	180	57	0	0	61
North Carolina	0	0	0	53	34	0	0	19
South Carolina	0	0	0	0	0	0	0	726
Virginia	0	0	0	0	14	0	17	13
East South Central	**0**	**0**	**0**	**321**	**321**	**0**	**0**	**101**
Mississippi	0	0	0	0	0	0	0	438
Tennessee	0	0	0	321	321	0	0	103
West South Central	**0**	**0**	**0**	**363**	**46**	**0**	**0**	**23**
Arkansas	0	0	0	0	181	0	0	255
Louisiana	0	0	0	0	0	0	0	64
Oklahoma	0	0	0	0	0	0	0	1,528
Texas	0	0	0	363	47	0	0	24
Mountain	**0**	**0**	**0**	**56**	**45**	**0**	**0**	**24**
Arizona	0	0	0	100	100	0	0	41
Colorado	0	0	0	148	130	0	0	239
Idaho	0	0	0	0	128	0	0	128
Nevada	0	0	0	71	71	0	0	46
New Mexico	0	0	0	0	269	0	0	45
Utah	0	0	0	0	98	0	0	50
Pacific Contiguous	**0**	**0**	**0**	**50**	**11**	**0**	**0**	**10**
California	0	0	0	50	11	0	0	10
Oregon	0	0	0	0	84	0	0	64
Washington	0	0	0	0	87	0	0	83
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**8**	**0**	**0**	**7**
Alaska	0	0	0	0	52	0	0	26
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**25**	**7**	**0**	**9**	**6**

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, December 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**64**	**53**	**0**	**42**	**0**	**0**	**31**
Connecticut	0	214	0	57	0	0	0
Maine	0	41	0	65	0	0	31
Massachusetts	145	3,763	0	106	0	0	577
New Hampshire	0	423	0	213	0	0	0
Middle Atlantic	**17**	**22**	**43**	**25**	**26**	**0**	**143**
New Jersey	0	322	80	67	85	0	0
New York	0	9	0	40	0	0	143
Pennsylvania	34	70	51	31	20	0	0
East North Central	**7**	**21**	**48**	**16**	**16**	**0**	**75**
Illinois	7	0	0	54	80	0	0
Indiana	382	6	0	30	14	0	0
Michigan	60	79	56	20	0	0	189
Ohio	87	122	212	44	97	0	0
Wisconsin	13	409	0	20	0	0	82
West North Central	**11**	**212**	**106**	**19**	**180**	**0**	**84**
Iowa	11	435	106	17	0	0	0
Kansas	0	0	0	433	0	0	0
Minnesota	28	294	0	43	0	0	84
Missouri	120	0	0	344	0	0	0
Nebraska	33	0	0	158	0	0	0
North Dakota	69	317	0	111	180	0	0
South Atlantic	**28**	**32**	**0**	**8**	**0**	**0**	**13**
Delaware	0	0	0	0	0	0	0
Florida	111	157	0	16	0	0	0
Georgia	49	62	0	27	0	0	230
Maryland	0	279	0	93	0	0	0
North Carolina	108	146	0	71	0	0	866
South Carolina	0	8	0	17	0	0	0
Virginia	31	192	0	25	0	0	316
West Virginia	0	0	0	0	0	0	8
East South Central	**8**	**90**	**0**	**12**	**63**	**0**	**0**
Alabama	107	106	0	16	114	0	0
Kentucky	0	0	0	63	0	0	0
Mississippi	0	0	0	30	0	0	0
Tennessee	0	325	0	19	0	0	0
West South Central	**56**	**58**	**35**	**1**	**5**	**0**	**0**
Arkansas	0	45	0	17	0	0	0
Louisiana	0	0	49	2	5	0	0
Oklahoma	74	90	0	71	0	0	0
Texas	0	292	38	2	11	0	0
Mountain	**33**	**831**	**0**	**10**	**6**	**0**	**0**
Colorado	882	687	0	118	0	0	0
Idaho	79	0	0	25	0	0	0
Montana	211	0	0	0	0	0	0
Nevada	0	0	0	30	0	0	0
New Mexico	0	3,056	0	0	0	0	0
Utah	0	1,227	0	22	263	0	0
Wyoming	35	410	0	11	4	0	0
Pacific Contiguous	**0**	**94**	**0**	**4**	**8**	**0**	**0**
California	0	567	0	4	8	0	0
Oregon	0	0	0	45	0	0	0
Washington	0	65	0	0	0	0	0
Pacific Noncontiguous	**398**	**52**	**0**	**69**	**123**	**0**	**139**
Alaska	0	22	0	69	0	0	0
Hawaii	398	57	0	0	123	0	139
U.S. Total	**7**	**39**	**20**	**2**	**6**	**0**	**19**

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, December 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**	**1**	**0**	**34**	**14**
Connecticut	0	0	0	0	0	0	0	57
Maine	0	0	0	0	1	0	34	12
Massachusetts	0	0	0	0	196	0	0	93
New Hampshire	0	0	0	0	0	0	0	212
Middle Atlantic	**0**	**0**	**0**	**164**	**7**	**0**	**0**	**12**
New Jersey	0	0	0	338	338	0	0	46
New York	0	0	0	0	2	0	0	15
Pennsylvania	0	0	0	182	9	0	0	15
East North Central	**0**	**0**	**0**	**305**	**5**	**0**	**12**	**6**
Illinois	0	0	0	0	0	0	28	12
Indiana	0	0	0	0	43	0	0	11
Michigan	0	0	0	0	7	0	0	11
Ohio	0	0	0	305	14	0	0	25
Wisconsin	0	0	0	0	8	0	70	11
West North Central	**0**	**0**	**0**	**0**	**7**	**0**	**59**	**8**
Iowa	0	0	0	0	44	0	179	9
Kansas	0	0	0	0	0	0	0	337
Minnesota	0	0	0	0	6	0	62	14
Missouri	0	0	0	0	205	0	0	143
Nebraska	0	0	0	0	0	0	0	33
North Dakota	0	0	0	0	123	0	0	58
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**6**	**3**
Delaware	0	0	0	0	96	0	0	1
Florida	0	0	0	0	4	0	6	6
Georgia	0	0	0	0	2	0	0	4
Maryland	0	0	0	0	0	0	0	24
North Carolina	0	0	0	0	5	0	26	11
South Carolina	0	0	0	0	1	0	0	2
Virginia	0	0	0	0	3	0	0	7
West Virginia	0	0	0	0	0	0	0	4
East South Central	**0**	**0**	**0**	**0**	**2**	**0**	**46**	**4**
Alabama	0	0	0	0	4	0	0	5
Kentucky	0	0	0	0	3	0	0	25
Mississippi	0	0	0	0	3	0	180	7
Tennessee	0	0	0	0	7	0	0	5
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**13**	**1**
Arkansas	0	0	0	0	2	0	0	4
Louisiana	0	0	0	0	4	0	17	2
Oklahoma	0	0	0	0	16	0	117	29
Texas	0	0	0	0	8	0	15	2
Mountain	**0**	**0**	**0**	**290**	**4**	**0**	**15**	**7**
Colorado	0	0	0	0	281	0	71	64
Idaho	0	0	0	0	3	0	49	11
Montana	0	0	0	0	56	0	0	76
Nevada	0	0	0	290	290	0	0	30
New Mexico	0	0	0	0	0	0	0	3,056
Utah	0	0	0	0	0	0	0	16
Wyoming	0	0	0	0	0	0	0	9
Pacific Contiguous	**0**	**0**	**0**	**197**	**4**	**0**	**13**	**3**
California	0	0	0	197	12	0	13	4
Oregon	0	0	0	0	8	0	0	9
Washington	0	0	0	0	5	0	0	4
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**41**	**0**	**0**	**39**
Alaska	0	0	0	0	152	0	0	40
Hawaii	0	0	0	0	40	0	0	45
U.S. Total	**0**	**0**	**0**	**111**	**1**	**0**	**7**	**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.5.B. Relative Standard Error for Net Generation by Fuel Type:

Industrial Sector by Census Division and State, Year-to-Date through December 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**64**	**53**	**0**	**42**	**0**	**0**	**31**
Connecticut	0	214	0	57	0	0	0
Maine	0	41	0	65	0	0	31
Massachusetts	145	3,763	0	106	0	0	577
New Hampshire	0	423	0	213	0	0	0
Middle Atlantic	**17**	**22**	**43**	**25**	**26**	**0**	**143**
New Jersey	0	322	80	67	85	0	0
New York	0	9	0	40	0	0	143
Pennsylvania	34	70	51	31	20	0	0
East North Central	**7**	**21**	**48**	**16**	**16**	**0**	**75**
Illinois	7	0	0	54	80	0	0
Indiana	382	6	0	30	14	0	0
Michigan	60	79	56	20	0	0	189
Ohio	87	122	212	44	97	0	0
Wisconsin	13	409	0	20	0	0	82
West North Central	**11**	**212**	**106**	**19**	**180**	**0**	**84**
Iowa	11	435	106	17	0	0	0
Kansas	0	0	0	433	0	0	0
Minnesota	28	294	0	43	0	0	84
Missouri	120	0	0	344	0	0	0
Nebraska	33	0	0	158	0	0	0
North Dakota	69	317	0	111	180	0	0
South Atlantic	**28**	**32**	**0**	**8**	**0**	**0**	**13**
Delaware	0	0	0	0	0	0	0
Florida	111	157	0	16	0	0	0
Georgia	49	62	0	27	0	0	230
Maryland	0	279	0	93	0	0	0
North Carolina	108	146	0	71	0	0	866
South Carolina	0	8	0	17	0	0	0
Virginia	31	192	0	25	0	0	316
West Virginia	0	0	0	0	0	0	8
East South Central	**8**	**90**	**0**	**12**	**63**	**0**	**0**
Alabama	107	106	0	16	114	0	0
Kentucky	0	0	0	63	0	0	0
Mississippi	0	0	0	30	0	0	0
Tennessee	0	325	0	19	0	0	0
West South Central	**56**	**58**	**35**	**1**	**5**	**0**	**0**
Arkansas	0	45	0	17	0	0	0
Louisiana	0	0	49	2	5	0	0
Oklahoma	74	90	0	71	0	0	0
Texas	0	292	38	2	11	0	0
Mountain	**33**	**831**	**0**	**10**	**6**	**0**	**0**
Colorado	882	687	0	118	0	0	0
Idaho	79	0	0	25	0	0	0
Montana	211	0	0	0	0	0	0
Nevada	0	0	0	30	0	0	0
New Mexico	0	3,056	0	0	0	0	0
Utah	0	1,227	0	22	263	0	0
Wyoming	35	410	0	11	4	0	0
Pacific Contiguous	**0**	**94**	**0**	**4**	**8**	**0**	**0**
California	0	567	0	4	8	0	0
Oregon	0	0	0	45	0	0	0
Washington	0	65	0	0	0	0	0
Pacific Noncontiguous	**398**	**52**	**0**	**69**	**123**	**0**	**139**
Alaska	0	22	0	69	0	0	0
Hawaii	398	57	0	0	123	0	139
U.S. Total	**7**	**39**	**20**	**2**	**6**	**0**	**19**

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 December 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**	**1**	**0**	**34**	**14**
Connecticut	0	0	0	0	0	0	0	57
Maine	0	0	0	0	1	0	34	12
Massachusetts	0	0	0	0	196	0	0	93
New Hampshire	0	0	0	0	0	0	0	212
Middle Atlantic	**0**	**0**	**0**	**164**	**7**	**0**	**0**	**12**
New Jersey	0	0	0	338	338	0	0	46
New York	0	0	0	0	2	0	0	15
Pennsylvania	0	0	0	182	9	0	0	15
East North Central	**0**	**0**	**0**	**305**	**5**	**0**	**12**	**6**
Illinois	0	0	0	0	0	0	28	12
Indiana	0	0	0	0	43	0	0	11
Michigan	0	0	0	0	7	0	0	11
Ohio	0	0	0	305	14	0	0	25
Wisconsin	0	0	0	0	8	0	70	11
West North Central	**0**	**0**	**0**	**0**	**7**	**0**	**59**	**8**
Iowa	0	0	0	0	44	0	179	9
Kansas	0	0	0	0	0	0	0	337
Minnesota	0	0	0	0	6	0	62	14
Missouri	0	0	0	0	205	0	0	143
Nebraska	0	0	0	0	0	0	0	33
North Dakota	0	0	0	0	123	0	0	58
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**6**	**3**
Delaware	0	0	0	0	96	0	0	1
Florida	0	0	0	0	4	0	6	6
Georgia	0	0	0	0	2	0	0	4
Maryland	0	0	0	0	0	0	0	24
North Carolina	0	0	0	0	5	0	26	11
South Carolina	0	0	0	0	1	0	0	2
Virginia	0	0	0	0	3	0	0	7
West Virginia	0	0	0	0	0	0	0	4
East South Central	**0**	**0**	**0**	**0**	**2**	**0**	**46**	**4**
Alabama	0	0	0	0	4	0	0	5
Kentucky	0	0	0	0	3	0	0	25
Mississippi	0	0	0	0	3	0	180	7
Tennessee	0	0	0	0	7	0	0	5
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**13**	**1**
Arkansas	0	0	0	0	2	0	0	4
Louisiana	0	0	0	0	4	0	17	2
Oklahoma	0	0	0	0	16	0	117	29
Texas	0	0	0	0	8	0	15	2
Mountain	**0**	**0**	**0**	**290**	**4**	**0**	**15**	**7**
Colorado	0	0	0	0	281	0	71	64
Idaho	0	0	0	0	3	0	49	11
Montana	0	0	0	0	56	0	0	76
Nevada	0	0	0	290	290	0	0	30
New Mexico	0	0	0	0	0	0	0	3,056
Utah	0	0	0	0	0	0	0	16
Wyoming	0	0	0	0	0	0	0	9
Pacific Contiguous	**0**	**0**	**0**	**197**	**4**	**0**	**13**	**3**
California	0	0	0	197	12	0	13	4
Oregon	0	0	0	0	8	0	0	9
Washington	0	0	0	0	5	0	0	4
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**41**	**0**	**0**	**39**
Alaska	0	0	0	0	152	0	0	40
Hawaii	0	0	0	0	40	0	0	45
U.S. Total	**0**	**0**	**0**	**111**	**1**	**0**	**7**	**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.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, December 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**3**	**0**	**1**
Connecticut	0	1	5	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	8	0	1
New Hampshire	1	1	5	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	3	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	1	0	1
Indiana	1	1	2	0	1
Michigan	1	2	2	0	1
Ohio	1	1	2	0	1
Wisconsin	1	3	4	0	2
West North Central	**1**	**2**	**2**	**0**	**1**
Iowa	2	7	4	0	3
Kansas	2	1	6	0	2
Minnesota	2	4	5	0	2
Missouri	1	1	7	0	1
Nebraska	2	7	6	0	3
North Dakota	2	5	10	0	3
South Dakota	3	9	9	0	4
South Atlantic	**1**	**0**	**1**	**0**	**0**
Delaware	1	2	8	0	2
District of Columbia	0	0	0	0	0
Florida	1	0	4	0	1
Georgia	2	1	3	0	1
Maryland	0	0	4	0	0
North Carolina	1	1	3	0	1
South Carolina	2	1	3	0	1
Virginia	1	0	3	0	1
West Virginia	0	0	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	2	1	2	0	1
Kentucky	1	2	4	0	2
Mississippi	3	2	4	0	2
Tennessee	1	2	4	0	1
West South Central	**1**	**0**	**1**	**0**	**1**
Arkansas	2	1	4	0	2
Louisiana	2	1	1	0	1
Oklahoma	2	1	4	0	1
Texas	1	0	1	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	3	3	0	1
Colorado	2	5	5	0	2
Idaho	1	4	4	0	2
Montana	2	8	6	0	3
Nevada	1	3	1	0	1
New Mexico	3	8	7	0	4
Utah	2	5	2	0	2
Wyoming	2	7	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	7	0	2
Washington	1	4	5	0	2
Pacific Noncontiguous	**1**	**5**	**3**	**0**	**2**
Alaska	3	9	10	0	5
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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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 December 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**3**	**0**	**0**
Connecticut	0	1	4	0	1
Maine	0	1	1	0	0
Massachusetts	0	1	6	0	1
New Hampshire	0	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	1	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	0	1	1	0	0
Indiana	0	1	2	0	1
Michigan	0	1	2	0	1
Ohio	0	1	1	0	0
Wisconsin	0	2	3	0	1
West North Central	**0**	**1**	**2**	**0**	**1**
Iowa	1	5	3	0	2
Kansas	1	1	4	0	1
Minnesota	1	3	4	0	2
Missouri	0	1	5	0	1
Nebraska	1	5	5	0	2
North Dakota	1	3	6	0	3
South Dakota	1	7	7	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	0	1	6	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	0	0	2	0	0
South Carolina	1	1	2	0	1
Virginia	0	0	2	0	0
West Virginia	0	0	0	0	0
East South Central	**0**	**1**	**1**	**0**	**0**
Alabama	1	1	1	0	1
Kentucky	0	1	3	0	1
Mississippi	1	1	3	0	1
Tennessee	0	1	3	0	1
West South Central	**0**	**0**	**1**	**0**	**0**
Arkansas	1	1	2	0	1
Louisiana	1	1	1	0	0
Oklahoma	1	1	3	0	1
Texas	0	0	1	0	0
Mountain	**0**	**1**	**1**	**0**	**1**
Arizona	0	2	2	0	1
Colorado	1	4	4	0	2
Idaho	0	3	2	0	1
Montana	1	5	5	0	2
Nevada	0	2	1	0	1
New Mexico	1	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	0
Oregon	0	3	5	0	2
Washington	0	3	4	0	2
Pacific Noncontiguous	**0**	**3**	**2**	**0**	**1**
Alaska	1	7	8	0	4
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**0**	**0**

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Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, December 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**0**
Connecticut	1	1	3	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	5	0	1
New Hampshire	1	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	3	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	**1**	**1**	**1**	**0**	**0**
Illinois	1	1	2	0	1
Indiana	2	2	2	0	1
Michigan	1	2	3	0	1
Ohio	1	1	3	0	1
Wisconsin	1	3	5	0	1
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	2	7	6	0	3
Kansas	3	2	6	0	2
Minnesota	2	4	6	0	2
Missouri	2	2	6	0	1
Nebraska	2	7	9	0	3
North Dakota	2	4	10	0	3
South Dakota	3	7	10	0	3
South Atlantic	**1**	**0**	**2**	**0**	**0**
Delaware	2	3	12	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	4	0	1
Georgia	2	1	4	0	1
Maryland	1	1	4	0	0
North Carolina	2	1	3	0	1
South Carolina	2	1	3	0	1
Virginia	1	1	4	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	2	1	2	0	1
Kentucky	2	3	4	0	2
Mississippi	4	3	5	0	2
Tennessee	2	2	5	0	1
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	3	3	4	0	2
Louisiana	2	1	1	0	1
Oklahoma	3	2	5	0	2
Texas	1	1	2	0	1
Mountain	**1**	**2**	**3**	**0**	**1**
Arizona	1	3	5	0	1
Colorado	2	5	7	0	3
Idaho	1	4	5	0	1
Montana	2	6	12	0	3
Nevada	1	4	2	0	1
New Mexico	4	8	11	0	4
Utah	2	6	4	0	2
Wyoming	2	6	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**0**
California	0	1	2	0	1
Oregon	1	3	8	0	1
Washington	1	3	7	0	1
Pacific Noncontiguous	**1**	**3**	**2**	**0**	**1**
Alaska	3	7	9	0	3
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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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 December 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	0	1	2	0	0
Maine	0	1	2	0	0
Massachusetts	0	1	3	0	1
New Hampshire	0	1	3	0	0
Rhode Island	0	1	0	0	0
Vermont	1	3	5	0	1
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	1	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	1	0	0
East North Central	**0**	**0**	**1**	**0**	**0**
Illinois	0	1	2	0	0
Indiana	1	1	1	0	1
Michigan	0	1	2	0	1
Ohio	0	1	2	0	0
Wisconsin	0	2	4	0	1
West North Central	**0**	**1**	**2**	**0**	**1**
Iowa	1	4	4	0	2
Kansas	1	1	4	0	1
Minnesota	1	3	5	0	1
Missouri	1	1	4	0	1
Nebraska	1	5	6	0	2
North Dakota	1	3	6	0	2
South Dakota	1	5	8	0	2
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	8	0	1
District of Columbia	0	1	0	0	1
Florida	0	1	3	0	0
Georgia	1	1	2	0	1
Maryland	0	1	2	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	0	1	2	0	0
West Virginia	0	1	0	0	0
East South Central	**0**	**1**	**1**	**0**	**0**
Alabama	1	1	2	0	1
Kentucky	1	2	3	0	1
Mississippi	1	2	4	0	1
Tennessee	1	2	4	0	1
West South Central	**0**	**1**	**1**	**0**	**0**
Arkansas	1	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	1
Texas	0	1	1	0	0
Mountain	**0**	**1**	**2**	**0**	**1**
Arizona	0	2	3	0	1
Colorado	1	4	5	0	2
Idaho	1	3	2	0	1
Montana	1	4	9	0	2
Nevada	0	3	1	0	1
New Mexico	1	6	9	0	3
Utah	1	4	2	0	2
Wyoming	1	5	3	0	2
Pacific Contiguous	**0**	**1**	**1**	**0**	**0**
California	0	1	1	0	0
Oregon	1	2	6	0	1
Washington	0	2	5	0	1
Pacific Noncontiguous	**1**	**2**	**2**	**0**	**1**
Alaska	2	5	8	0	3
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, December 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**1**	**0**	**0**
Connecticut	0	0	3	0	0
Maine	0	0	1	0	0
Massachusetts	1	0	4	0	1
New Hampshire	0	0	2	0	0
Rhode Island	0	0	0	0	0
Vermont	2	2	2	0	1
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	1	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	1	0	1
West North Central	**1**	**1**	**1**	**0**	**0**
Iowa	1	2	3	0	1
Kansas	2	2	3	0	1
Minnesota	1	1	2	0	1
Missouri	1	1	2	0	1
Nebraska	1	2	3	0	1
North Dakota	1	1	3	0	1
South Dakota	2	3	3	0	1
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	5	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	1	0	0
North Carolina	1	1	1	0	1
South Carolina	1	1	1	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	1	0	1
Mississippi	2	2	2	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	2	2	0	1
Texas	1	1	1	0	1
Mountain	**0**	**1**	**1**	**0**	**0**
Arizona	1	1	3	0	1
Colorado	1	1	4	0	1
Idaho	1	1	1	0	1
Montana	1	2	6	0	1
Nevada	0	2	1	0	1
New Mexico	2	2	7	0	2
Utah	1	2	2	0	1
Wyoming	1	2	1	0	1
Pacific Contiguous	**0**	**1**	**1**	**0**	**0**
California	0	0	1	0	0
Oregon	1	1	2	0	1
Washington	1	1	2	0	1
Pacific Noncontiguous	**1**	**2**	**1**	**0**	**1**
Alaska	2	4	3	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 December 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**0**	**0**
Connecticut	0	1	4	0	1
Maine	0	1	2	0	1
Massachusetts	0	1	7	0	1
New Hampshire	0	1	4	0	1
Rhode Island	0	1	0	0	0
Vermont	1	3	7	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	1	3	0	0
New York	0	0	2	0	0
Pennsylvania	0	1	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	0	1	2	0	1
Indiana	1	2	2	0	1
Michigan	0	2	3	0	1
Ohio	0	1	2	0	1
Wisconsin	0	3	4	0	2
West North Central	**0**	**2**	**3**	**0**	**1**
Iowa	1	6	5	0	2
Kansas	1	1	5	0	1
Minnesota	0	4	6	0	2
Missouri	1	1	6	0	1
Nebraska	1	6	7	0	3
North Dakota	1	4	7	0	3
South Dakota	1	8	10	0	4
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	3	9	0	2
District of Columbia	0	1	0	0	1
Florida	0	1	4	0	0
Georgia	1	1	3	0	1
Maryland	0	1	4	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	0	1	3	0	0
West Virginia	0	1	0	0	0
East South Central	**0**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	1	2	4	0	1
Mississippi	1	2	4	0	1
Tennessee	1	2	5	0	1
West South Central	**0**	**1**	**1**	**0**	**0**
Arkansas	1	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	1
Texas	0	1	2	0	0
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	2	4	0	1
Colorado	1	5	6	0	2
Idaho	0	4	3	0	1
Montana	1	6	10	0	3
Nevada	0	3	1	0	1
New Mexico	1	8	9	0	4
Utah	1	5	3	0	2
Wyoming	1	6	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	0	4	8	0	2
Washington	0	3	6	0	2
Pacific Noncontiguous	**1**	**4**	**3**	**0**	**2**
Alaska	2	8	10	0	4
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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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 in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	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 Deficiency	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 Deficiency	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 single incident-System Operations	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;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-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	Pacificorp	WECC	Utah:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	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	. .	. Hours, . Minutes	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 Deficiency	150	Unknown
2016	6	06/17/2016 3:40 PM	06/18/2016 8:34 AM	16 Hours, 54 Minutes	Southern Company	SERC	Georgia, Alabama, Mississippi, Florida	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	304	91260
2016	7	07/05/2016 2:45 AM	07/06/2016 3:00 AM	24 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Tarrant County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	52000
2016	7	07/05/2016 5:30 PM	07/06/2016 4:00 PM	22 Hours, 30 Minutes	Northern States Power Co	MRO	Minnesota, Wisconsin	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	250000
2016	7	07/07/2016 4:20 AM	07/07/2016 8:00 AM	3 Hours, 40 Minutes	Kansas City Power & Light Co	SERC	Kansas: Johnson County; Missouri: Jackson County, Platte County, Cass County, Buchanan County, Atchison County, Andrew County, Clay County, Nodaway County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	58500
2016	7	07/08/2016 6:00 PM	ongoing	ongoing	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RFC	West Virginia: Virginia	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62961
2016	7	07/08/2016 7:00 PM	07/09/2016 12:00 AM	5 Hours, 0 Minutes	Detroit Edison Co	RFC	Michigan: Wayne County, Oakland County, Macomb County, St. Clair County, Lapeer County, Tuscola County, Sanilac County, Huron County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	160895
2016	7	07/08/2016 8:50 PM	07/09/2016 7:25 PM	22 Hours, 35 Minutes	Duke Energy Carolinas	SERC	North Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	600	203345
2016	7	07/09/2016 5:45 PM	07/11/2016 2:00 PM	44 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62000

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	7	07/12/2016 2:10 PM	07/12/2016 8:33 PM	6 Hours, 23 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	450	218000
2016	7	07/13/2016 3:00 PM	ongoing	ongoing	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County	Public Appeal-System Operations	Unknown	Unknown
2016	7	07/14/2016 2:44 PM	07/15/2016 4:00 AM	13 Hours, 16 Minutes	American Electric Power - (SPP Reliability Region)	SPP	Oklahoma	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	96966
2016	7	07/14/2016 4:30 PM	07/16/2016 12:00 AM	31 Hours, 30 Minutes	Entergy Services, Inc.	SPP, SERC,	Arkansas: Louisiana: Mississippi: Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	170244
2016	7	07/14/2016 5:30 PM	07/16/2016 8:00 PM	50 Hours, 30 Minutes	Oklahoma Gas & Electric Co	SPP	Oklahoma: Arkansas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	7300
2016	7	07/19/2016 3:45 PM	07/19/2016 7:25 PM	3 Hours, 40 Minutes	Pacificorp	WECC	Idaho	Islanding, Uncontrolled Loss 300+ MW-System Operations	485	Unknown
2016	7	07/19/2016 3:45 PM	07/19/2016 7:29 PM	3 Hours, 44 Minutes	Bonneville Power Administration	WECC	Idaho	Islanding, Uncontrolled Loss 300+ MW-System Operations	290	Unknown
2016	7	07/21/2016 7:21 PM	07/22/2016 12:09 AM	4 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Load Shed 100+ MW, Voltage Reduction-System Operations	200	266000
2016	7	07/22/2016 11:50 PM	07/23/2016 9:10 AM	9 Hours, 20 Minutes	ISO New England	NPCC	Massachusetts: Connecticut: Rhode Island: New Hampshire: Vermont: Maine	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	57058
2016	7	07/23/2016 3:15 PM	07/23/2016 7:53 PM	4 Hours, 38 Minutes	CAmbria Cogen Company	RFC	Pennsylvania: Cambria County	Voltage Reduction-System Operations	87	Unknown
2016	7	07/23/2016 7:30 PM	07/24/2016 7:30 AM	12 Hours, 0 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Vermont: Rhode Island	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	101073
2016	7	07/25/2016 6:51 PM	07/26/2016 2:19 AM	7 Hours, 28 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	0	0
2016	7	07/26/2016 6:51 PM	07/27/2016 1:45 AM	6 Hours, 54 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	25	37100
2016	7	07/27/2016 6:50 PM	07/28/2016 1:38 AM	6 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	80	106300
2016	7	07/28/2016 6:51 PM	07/29/2016 2:02 AM	7 Hours, 11 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	22	21600
2016	7	07/29/2016 7:09 PM	07/29/2016 7:57 PM	0 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	0	0
2016	8	08/07/2016 6:39 PM	08/07/2016 8:27 PM	1 Hours, 48 Minutes	Peak Reliability	WECC	New Mexico: Bernalillo County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	Unknown	Unknown
2016	8	08/10/2016 6:00 AM	ongoing	ongoing	California Department of Water Resources	WECC	California: Butte County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2016	8	08/11/2016 4:30 PM	08/11/2016 7:15 PM	2 Hours, 45 Minutes	FirstEnergy Corp	RFC	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62140
2016	8	08/13/2016 11:42 AM	08/13/2016 2:07 PM	2 Hours, 25 Minutes	Broad River Energy, LLC	SERC	South Carolina:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	506	0
2016	8	08/23/2016 5:00 PM	08/24/2016 12:05 AM	7 Hours, 5 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72200
2016	8	08/24/2016 6:13 PM	08/24/2016 7:14 PM	1 Hours, 1 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-System Operations	600	400000
2016	8	08/24/2016 7:18 PM	08/24/2016 7:47 PM	0 Hours, 29 Minutes	Peak Reliability	WECC	Washington: King County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	9232	Unknown
2016	8	08/31/2016 9:45 AM	08/31/2016 9:55 AM	0 Hours, 10 Minutes	Peak Reliability	WECC	Colorado:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Transmission Interruption	0	0
2016	8	08/31/2016 2:52 PM	ongoing	ongoing	Peak Reliability	WECC	Washington: Clark County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	0	0
2016	9	09/01/2016 10:00 PM	ongoing	ongoing	Seminole Electric Cooperative Inc	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	100	Unknown
2016	9	09/02/2016 12:40 AM	09/04/2016 8:00 PM	67 Hours, 20 Minutes	City of Tallahassee - (FL)	FRCC	Florida: Leon County, Wakulla County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	450	75000
2016	9	09/02/2016 4:00 AM	09/02/2016 4:00 PM	12 Hours, 0 Minutes	Duke Energy Florida	FRCC	Florida: Alachua County, Bay County, Citrus County, Columbia County, Dixie County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Polk County, Seminole County, Sumter County, Su	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	225	90000
2016	9	09/02/2016 5:45 AM	09/03/2016 12:30 AM	18 Hours, 45 Minutes	Southern Company	SERC	Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	57000

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	9	09/06/2016 6:12 PM	09/06/2016 9:24 PM	3 Hours, 12 Minutes	Peak Reliability	WECC	Washington: Clark County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	300	Unknown
2016	9	09/08/2016 8:30 AM	09/25/2016 12:00 AM	399 Hours, 30 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 Deficiency	210	Unknown
2016	9	09/08/2016 2:49 PM	09/08/2016 3:03 PM	0 Hours, 14 Minutes	Peak Reliability	WECC	Washington:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	0	0
2016	9	09/10/2016 9:42 AM	09/10/2016 9:57 AM	0 Hours, 15 Minutes	Peak Reliability	WECC	Washington: Clark County;	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	135	Unknown
2016	9	09/11/2016 12:05 PM	09/11/2016 3:10 PM	3 Hours, 5 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Rhode Island: Vermont: Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	57960
2016	9	09/12/2016 12:30 PM	09/12/2016 5:56 PM	5 Hours, 26 Minutes	Public Service Company of New Mexico	WECC	New Mexico: Bernalillo County, Sandoval County, Santa Fe County, Valencia County;	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	110	53753
2016	9	09/21/2016 2:30 PM	09/24/2016 2:30 AM	60 Hours, 0 Minutes	Puerto Rico Electric Power Authority		Puerto Rico:	Complete operational failure or shut-down of the transmission and/or distribution electrical system-System Operations	2750	1475000
2016	9	09/22/2016 10:56 AM	09/22/2016 11:41 AM	0 Hours, 45 Minutes	Cedar Falls Utilities	MRO	Iowa: Black Hawk County;	Complete operational failure or shut-down of the transmission and/or distribution electrical system-System Operations	69	19124
2016	10	10/02/2016 11:30 PM	10/05/2016 8:00 AM	56 Hours, 30 Minutes	Pacificorp	WECC	Utah:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Transmission Interruption	50	4000
2016	10	10/03/2016 3:09 PM	10/04/2016 7:00 PM	27 Hours, 51 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Public Appeal	Unknown	Unknown
2016	10	10/05/2016 11:32 AM	10/05/2016 7:00 PM	7 Hours, 28 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Public Appeal	Unknown	Unknown
2016	10	10/06/2016 9:50 AM	10/06/2016 7:00 PM	9 Hours, 10 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Public Appeal	Unknown	Unknown
2016	10	10/06/2016 7:30 PM	10/08/2016 6:00 PM	46 Hours, 30 Minutes	Florida Power & Light	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	5600	1200000
2016	10	10/07/2016 8:00 AM	10/09/2016 1:00 PM	53 Hours, 0 Minutes	Duke Energy Florida	FRCC	Florida: Alachua County, Bay County, Citrus County, Columbia County, Dixie County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Polk County, Seminole County, Sumter County, Su	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	413	165000
2016	10	10/07/2016 11:08 AM	10/07/2016 7:00 PM	7 Hours, 52 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy	Unknown	Unknown
2016	10	10/07/2016 4:22 PM	10/12/2016 11:00 AM	114 Hours, 38 Minutes	Southern Company	SERC	Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	122	36384
2016	10	10/07/2016 10:45 PM	ongoing	ongoing	Seminole Electric Cooperative Inc	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2016	10	10/08/2016 1:10 AM	ongoing	ongoing	South Carolina Electric and Gas	SERC	South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	1050	290824
2016	10	10/08/2016 8:21 AM	10/13/2016 5:30 PM	129 Hours, 9 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	Unknown	Unknown
2016	10	10/10/2016 1:15 PM	10/10/2016 7:00 PM	5 Hours, 45 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy	Unknown	Unknown
2016	10	10/28/2016 1:29 PM	10/28/2016 1:38 PM	0 Hours, 9 Minutes	Pacific Gas & Electric Co	WECC	California: Plumas County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system-Islanding	4	482
2016	11	11/09/2016 11:59 AM	11/09/2016 6:15 PM	6 Hours, 16 Minutes	Modesto Irrigation District	WECC	California: Stanislaus County, San Joaquin County, Alameda County, Tuolumne County;	Cyber event that could potentially impact electric power system adequacy or reliability-Cyber Attack	0	0

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	12	12/15/2016 6:30 AM	ongoing	ongoing	California Department of Water Resources	WECC	California: Merced County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	Unknown	Unknown
2016	12	12/28/2016 4:03 AM	12/31/2016 6:00 AM	73 Hours, 57 Minutes	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2016	12	12/30/2016 2:30 AM	12/30/2016 7:00 PM	16 Hours, 30 Minutes	ISO New England	NPCC	Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather or Natural Disaster	Unknown	85263

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 of 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 approxi-mately 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 approxi-mately 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 sample21,24. 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 nth digit if the (n+1) digit is 5 or larger and keep the nth 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:

$$\text{Percent Difference} = \left(\frac{x\ (t_2) - x\ (t_1)}{|\ x\ (t_1)|} \right) x\ 100,$$

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 estimates[1].

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
	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)
Natural Gas and Other Gases	BFG	Blast Furnace Gas
	NG	Natural Gas
	OG	Other Gas
Nuclear	NUC	Nuclear (including Uranium, Plutonium, and Thorium)
Hydroelectric Conventional	WAT (Prime Mover = HY)	Water at a Conventional 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 per-formed 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 waste[2]: 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

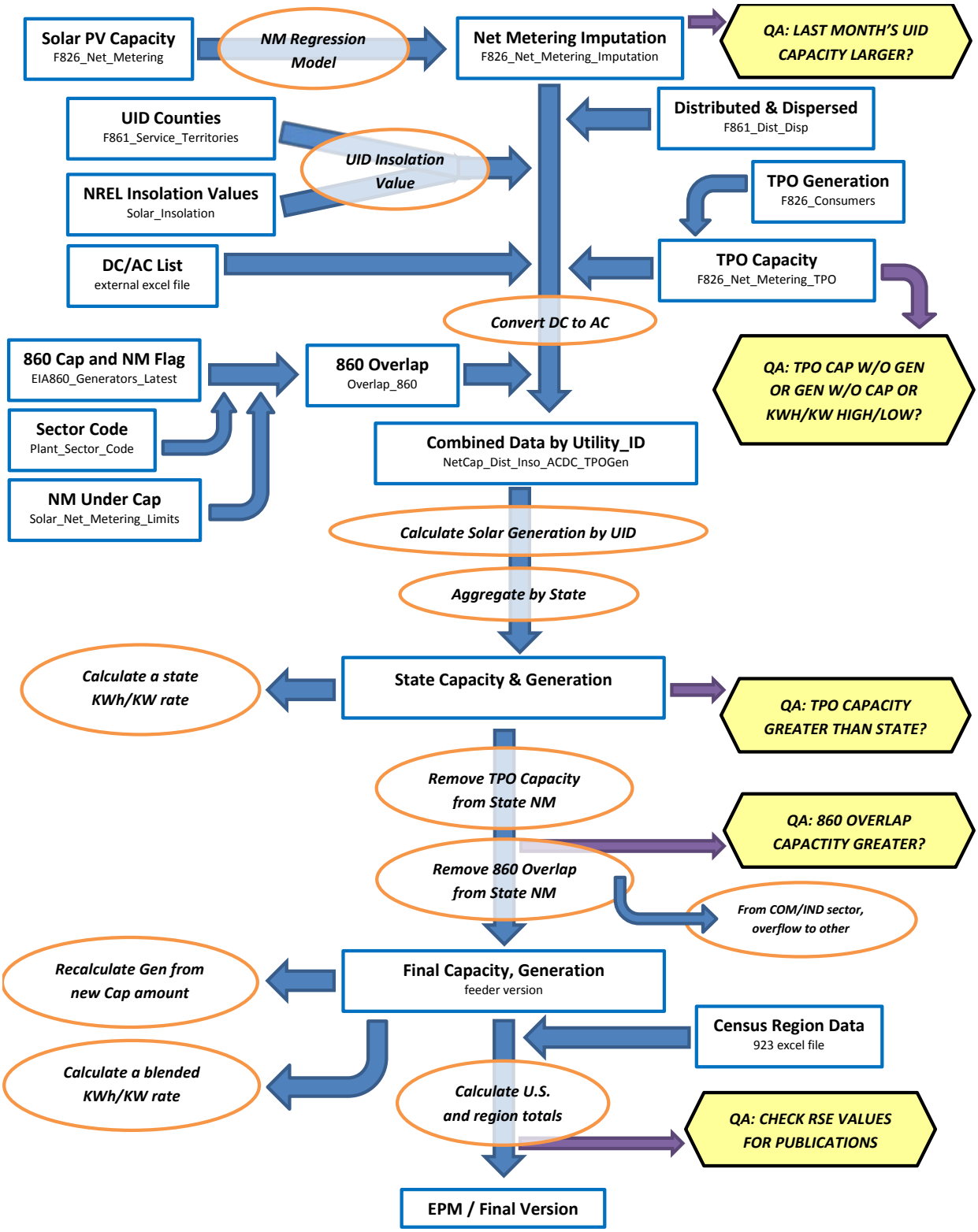
TMY3 (1991-2005) Weather Stations by MSA

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 Worchester 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 McCallen 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 Worchester 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, December 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	25.70	6.26	--	1.03
Connecticut	--	5.80	--	1.03
Maine	25.70	6.17	--	1.02
Massachusetts	--	6.29	--	1.03
New Hampshire	--	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.50	5.92	--	1.04
New Jersey	26.34	5.77	--	1.04
New York	25.89	6.14	--	1.03
Pennsylvania	23.25	5.78	--	1.04
East North Central	20.22	5.79	27.11	1.04
Illinois	17.67	5.80	--	1.01
Indiana	22.37	5.75	--	1.04
Michigan	18.79	5.84	26.83	1.03
Ohio	24.60	5.78	27.23	1.05
Wisconsin	17.86	5.84	26.49	1.04
West North Central	16.60	5.79	--	1.04
Iowa	17.59	5.76	--	1.05
Kansas	17.16	5.75	--	1.03
Minnesota	17.71	5.74	--	1.05
Missouri	17.59	5.77	--	1.03
Nebraska	16.88	5.75	--	1.06
North Dakota	13.47	5.93	--	0.99
South Dakota	16.53	--	--	1.07
South Atlantic	23.55	5.87	27.90	1.03
Delaware	26.06	5.67	--	1.05
District of Columbia	--	--	--	--
Florida	23.64	5.80	28.07	1.02
Georgia	20.32	5.88	27.05	1.03
Maryland	25.01	5.82	--	1.04
North Carolina	24.89	5.81	--	1.03
South Carolina	25.10	5.88	--	1.03
Virginia	21.94	6.16	--	1.06
West Virginia	24.47	5.77	--	1.09
East South Central	20.79	5.77	28.05	1.03
Alabama	19.03	5.68	--	1.03
Kentucky	22.13	5.81	28.05	1.02
Mississippi	14.47	5.81	--	1.03
Tennessee	21.51	5.76	--	1.01
West South Central	15.85	5.86	28.51	1.03
Arkansas	17.32	5.88	--	1.03
Louisiana	16.22	5.90	28.51	1.04
Oklahoma	17.35	5.80	--	1.06
Texas	15.40	5.85	--	1.03
Mountain	18.70	5.71	--	1.05
Arizona	19.95	5.65	--	1.04
Colorado	18.52	5.67	--	1.07
Idaho	--	--	--	1.02
Montana	16.80	5.92	--	--
Nevada	17.77	5.88	--	1.04
New Mexico	18.27	5.66	--	1.04
Utah	21.58	5.88	--	1.04
Wyoming	17.51	5.78	--	1.06
Pacific Contiguous	17.61	6.00	--	1.04
California	23.03	--	--	1.03
Oregon	17.17	--	--	1.05
Washington	17.01	6.00	--	1.08
Pacific Noncontiguous	18.35	6.11	--	1.00
Alaska	14.00	5.60	--	1.00
Hawaii	19.30	6.11	--	--
U.S. Total	19.17	6.00	28.03	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, 2013 through 2015

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2013**	**2014**	**2015**
Net Generation			
Coal	0.31%	0.25%	0.33%
Petroleum Liquids	4.04%	2.32%	1.00%
Petroleum Coke	0.95%	2.96%	1.60%
Natural Gas	0.98%	0.42%	0.18%
Other Gases	5.81%	4.12%	3.90%
Hydroelectric	0.65%	0.49%	1.08%
Nuclear	0.00%	0.01%	0.01%
Other	0.56%	0.43%	0.80%
Total	**0.19%**	**0.08%**	**0.23%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.07%	0.13%	0.24%
Petroleum Liquids	3.49%	2.17%	2.28%
Petroleum Coke	1.03%	3.19%	1.50%
Natural Gas	0.99%	0.48%	0.32%
Fuel Stocks for Electric Power Sector			
Coal	0.25%	0.38%	0.40%
Petroleum Liquids	2.54%	4.25%	2.92%
Petroleum Coke	0.08%	0.61%	0.04%
Retail Sales			
Residential	0.26%	0.30%	0.30%
Commercial	0.22%	0.38%	0.18%
Industrial	3.20%	4.39%	2.92%
Transportation	1.45%	0.44%	0.37%
Total	**0.90%**	**1.10%**	**0.93%**
Revenue			
Residential	0.34%	0.43%	0.15%
Commercial	0.47%	0.47%	0.62%
Industrial	4.28%	5.66%	3.15%
Transportation	3.84%	1.92%	1.09%
Total	**0.76%**	**1.01%**	**0.83%**
Average Retail Price			
Residential	0.12%	0.12%	0.15%
Commercial	0.30%	0.20%	0.44%
Industrial	1.05%	1.20%	0.31%
Transportation	2.49%	2.18%	0.83%
Total	**0.17%**	**0.16%**	**0.11%**
Receipt of Fossil Fuels			
Coal	2.50%	2.20%	1.70%
Petroleum Liquids	0.79%	0.49%	1.86%
Petroleum Coke	2.30%	2.03%	2.47%
Natural Gas	0.47%	0.26%	0.25%
Cost of Fossil Fuels			
Coal	0.18%	0.18%	0.04%
Petroleum Liquids	0.14%	0.04%	0.25%
Petroleum Coke	1.22%	1.03%	1.42%
Natural Gas	0.02%	0.06%	0.14%

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, 2013 through 2015

Item	2013			2014			2015		
	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	1,585,998	1,581,115	-0.31%	1,585,697	1,581,710	-0.25%	1,356,057	1,352,398	-0.27%
Petroleum Liquids	13,410	13,820	3.06%	18,708	18,276	-2.31%	17,456	17,372	-0.48%
Petroleum Coke	13,453	13,344	-0.81%	11,781	11,955	1.48%	10,987	10,877	-1.00%
Natural Gas	1,113,665	1,124,836	1.00%	1,121,928	1,126,609	0.42%	1,335,068	1,333,482	-0.12%
Other Gases	12,271	12,853	4.75%	11,578	12,022	3.83%	12,963	13,117	1.18%
Hydroelectric	264,713	263,884	-0.31%	252,540	253,193	0.26%	246,075	243,989	-0.85%
Nuclear	789,017	789,016	0.00%	797,067	797,166	0.01%	797,178	797,178	0.00%
Other	265,683	267,096	0.53%	293,636	292,674	-0.33%	311,597	309,189	-0.77%
Total	**4,058,209**	**4,065,964**	**0.19%**	**4,092,935**	**4,093,606**	**0.02%**	**4,087,381**	**4,077,601**	**-0.24%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	860,790	860,729	-0.01%	854,416	853,634	-0.09%	740,855	739,594	-0.17%
Petroleum Liquids (1,000 barrels)	22,751	23,231	2.11%	32,084	31,531	-1.72%	29,545	28,925	-2.10%
Petroleum Coke (1,000 tons)	4,893	4,852	-0.83%	4,325	4,412	2.02%	4,088	4,044	-1.07%
Natural Gas (1,000 Mcf)	8,512,483	8,596,299	0.98%	8,502,964	8,544,387	0.49%	10,048,346	10,016,576	-0.32%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	147,973	147,884	-0.06%	151,362	151,548	0.12%	197,128	195,548	-0.80%
Petroleum Liquids (1,000 barrels)	31,045	31,673	2.03%	32,139	33,505	4.25%	32,223	32,884	2.05%
Petroleum Coke (1,000 tons)	390	390	-0.01%	847	827	-2.29%	1,342	1,340	-0.15%
Retail Sales (Million kWh)									
Residential	1,391,102	1,394,812	0.27%	1,402,911	1,407,208	0.31%	1,399,884	1,404,096	0.30%
Commercial	1,338,464	1,337,079	-0.10%	1,357,505	1,352,158	-0.39%	1,358,419	1,360,752	0.17%
Industrial	954,731	985,352	3.21%	955,488	997,576	4.40%	958,563	986,508	2.92%
Transportation	7,525	7,625	1.32%	7,776	7,758	-0.24%	7,659	7,637	-0.29%
Total	**3,691,822**	**3,724,868**	**0.90%**	**3,723,681**	**3,764,700**	**1.10%**	**3,724,525**	**3,758,992**	**0.93%**
Revenue (Million Dollars)									
Residential	168,547	169,131	0.35%	175,404	176,178	0.44%	177,367	177,624	0.14%
Commercial	137,779	137,188	-0.43%	145,889	145,253	-0.44%	143,893	144,781	0.62%
Industrial	65,111	67,934	4.33%	67,019	70,855	5.72%	66,088	68,166	3.14%
Transportation	775	805	3.84%	798	810	1.51%	779	771	-1.12%
Total	**372,213**	**375,058**	**0.76%**	**389,111**	**393,096**	**1.02%**	**388,127**	**391,341**	**0.83%**
Average Retail Price (Cents/kWh)									
Residential	12.12	12.13	0.08%	12.50	12.52	0.13%	12.67	12.65	-0.16%
Commercial	10.29	10.26	-0.33%	10.75	10.74	-0.04%	10.59	10.64	0.44%
Industrial	6.82	6.89	1.09%	7.01	7.10	1.26%	6.89	6.91	0.22%
Transportation	10.30	10.55	2.49%	10.27	10.45	1.75%	10.17	10.09	-0.83%
Total	**10.08**	**10.07**	**-0.13%**	**10.45**	**10.44**	**-0.08%**	**10.42**	**10.41**	**-0.10%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	803,206	823,222	2.49%	836,196	854,560	2.20%	769,866	782,929	1.70%
Petroleum Liquids (1,000 barrels)	20,348	20,413	0.32%	28,355	28,514	0.56%	24,512	24,320	-0.78%
Petroleum Coke (1,000 tons)	4,555	4,660	2.31%	5,091	5,195	2.03%	4,779	4,897	2.46%
Natural Gas (1,000 Mcf)	8,463,303	8,503,424	0.47%	8,423,883	8,431,423	0.09%	9,843,170	9,842,581	-0.01%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.35	2.34	-0.12%	2.37	2.37	0.02%	2.22	2.22	-0.03%
Petroleum Liquids (1,000 barrels)	20.59	20.56	-0.12%	19.89	19.89	-0.03%	11.48	11.49	0.10%
Petroleum Coke (1,000 tons)	2.16	2.17	0.70%	1.96	1.98	0.97%	1.87	1.84	-1.37%
Natural Gas (1,000 Mcf)	4.33	4.33	0.03%	4.99	4.99	0.01%	3.22	3.23	0.18%

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 2015 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 earths 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 though 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 gasses, 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.