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Preface

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

Background

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

Data sources

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

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		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	87,267	92,719	-5.9%	65,271	69,803	21,282	22,053	31	47	683	817	0	0
Petroleum Liquids	Utility Scale Facilities	916	1,236	-25.9%	660	779	212	401	9	13	35	43	0	0
Petroleum Coke	Utility Scale Facilities	707	904	-21.8%	540	734	102	99	1	1	65	70	0	0
Natural Gas	Utility Scale Facilities	78,581	98,190	-20.0%	37,367	47,642	33,664	42,799	576	550	6,975	7,198	0	0
Other Gas	Utility Scale Facilities	1,152	1,169	-1.5%	22	4	322	336	0	0	808	828	0	0
Nuclear	Utility Scale Facilities	64,053	65,638	-2.4%	34,403	34,281	29,650	31,357	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	24,611	24,150	1.9%	22,749	21,931	1,738	2,082	NM	NM	120	131	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	30,607	29,125	5.1%	3,621	3,784	24,430	22,790	231	252	2,325	2,298	0	0
... Wind	Utility Scale Facilities	21,692	20,204	7.4%	3,024	3,148	18,650	17,036	10	13	NM	NM	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	2,562	2,443	4.9%	184	158	2,349	2,237	27	45	NM	3	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,308	3,394	-2.5%	217	272	859	928	7	6	2,224	2,187	0	0
... Other Biomass	Utility Scale Facilities	1,676	1,713	-2.1%	113	116	1,284	1,307	186	188	92	101	0	0
... Geothermal	Utility Scale Facilities	1,369	1,372	-0.2%	82	90	1,287	1,282	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-504	-399	26.5%	-414	-332	-90	-66	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,024	1,017	0.7%	46	26	519	543	79	76	380	372	0	0
All Energy Sources	Utility Scale Facilities	288,414	313,749	-8.1%	164,264	178,652	111,830	122,395	931	944	11,389	11,758	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	1,449	1,189	21.8%	0	0	0	0	526	468	139	108	784	614
Estimated Total Solar Photovoltaic	All Facilities	3,875	3,391	14.3%	184	153	2,214	2,001	553	512	NM	111	784	614
Estimated Total Solar	All Facilities	4,011	3,632	10.4%	184	158	2,349	2,237	553	512	NM	111	784	614
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	48,155	50,567	-4.8%	35,793	37,652	12,083	12,604	12	15	267	296	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,558	2,111	-26.2%	1,180	1,405	322	645	15	14	41	47	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	266	329	-18.9%	217	272	36	39	0	0	13	17	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	584,745	716,939	-18.4%	280,771	352,730	248,451	309,115	5,433	5,032	50,090	50,062	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,075	1,393	-22.9%	97	90	122	141	38	63	818	1,099	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	175	223	-21.8%	4	7	70	68	24	16	77	132	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	66	87	-24.3%	0	0	9	9	1	2	56	76	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	77,792	78,278	-0.6%	872	1,068	20,183	23,422	4,382	4,216	52,356	49,573	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	49,230	51,960	-5.3%	35,890	37,742	12,204	12,745	50	78	1,085	1,395	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,733	2,334	-25.8%	1,185	1,412	392	713	39	30	117	179	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	332	416	-20.1%	218	272	45	49	1	2	69	93	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	662,537	795,217	-16.7%	281,643	353,798	268,634	332,537	9,815	9,248	102,446	99,635	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	162,927	189,190	-13.9%	128,557	146,224	33,428	41,351	162	174	780	1,441	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	W	33,579	W	20,096	20,670	10,453	10,967	W	518	1,469	1,424	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,049	1,626	-35.5%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for February									
	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	February 2017	February 2016	Percentage Change	February 2017	February 2016	Percentage Change	February 2017	February 2016	Percentage Change
Residential	101,141	115,820	-12.7%	12,961	14,060	-7.8%	12.82	12.14	5.6%
Commercial	99,478	102,877	-3.3%	10,424	10,491	-0.6%	10.48	10.20	2.7%
Industrial	71,741	73,909	-2.9%	4,755	4,720	0.7%	6.63	6.39	3.8%
Transportation	636	647	-1.6%	60	61	-1.8%	9.47	9.49	-0.2%
All Sectors	272,996	293,253	-6.9%	28,201	29,332	-3.9%	10.33	10.00	3.3%

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Coal generation and consumption includes anthracite, bituminous, subbituminous, lignite, waste coal, refined coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
Petroleum Coke includes petroleum coke and synthesis gas derived from petroleum coke.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.
Other Gases includes blast furnace gas and other manufactured and waste gases derived from fossil fuels.
Wood and Wood-Derived Fuels include wood, black liquor, and other wood waste.
Other Biomass includes biogenic municipal solid waste, landfill gas, sludge waste, agricultural byproducts, and other biomass.
Coal stocks include anthracite, bituminous, subbituminous, lignite, refined coal, and synthetic coal; waste coal is excluded.
Sales of electricity to ultimate customers and net generation may not correspond exactly for a particular month for a variety of reasons (e.g., sales data may include imported electricity).
Net generation is presented for the calendar month while sales of electricity to ultimate customers and associated revenue accumulate from bills collected for periods of time that vary depending

Table ES1.B. Total Electric Power Industry Summary Statistics, Year-to-Date 2017 and 2016

Net Generation and Consumption of Fuels for January through February														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	202,817	206,270	-1.7%	151,434	153,867	49,842	50,621	71	90	1,469	1,693	0	0
Petroleum Liquids	Utility Scale Facilities	2,092	2,579	-18.9%	1,499	1,704	489	765	27	24	77	86	0	0
Petroleum Coke	Utility Scale Facilities	1,651	1,857	-11.1%	1,282	1,566	233	141	2	2	134	149	0	0
Natural Gas	Utility Scale Facilities	169,907	207,977	-18.3%	81,393	100,139	72,453	91,696	1,238	1,198	14,823	14,944	0	0
Other Gas	Utility Scale Facilities	2,267	2,432	-6.8%	38	7	670	703	0	0	1,559	1,721	0	0
Nuclear	Utility Scale Facilities	137,173	138,163	-0.7%	72,828	72,255	64,345	65,908	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	52,316	49,576	5.5%	48,367	45,117	3,689	4,182	NM	NM	251	267	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	60,044	56,189	6.9%	6,818	7,202	47,970	43,687	481	510	4,776	4,791	0	0
... Wind	Utility Scale Facilities	42,041	38,735	8.5%	5,584	5,948	36,423	32,749	22	24	NM	14	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	4,767	3,958	20.4%	341	259	4,374	3,627	50	68	NM	NM	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	6,759	7,009	-3.6%	479	568	1,695	1,867	15	14	4,569	4,560	0	0
... Other Biomass	Utility Scale Facilities	3,567	3,643	-2.1%	236	239	2,745	2,787	394	405	193	213	0	0
... Geothermal	Utility Scale Facilities	2,910	2,843	2.3%	177	187	2,732	2,656	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-922	-710	29.8%	-742	-562	-180	-148	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	2,142	2,161	-0.9%	95	54	1,103	1,148	165	167	779	792	0	0
All Energy Sources	Utility Scale Facilities	629,486	666,494	-5.6%	363,011	381,348	240,615	258,703	1,992	2,001	23,868	24,442	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	2,731	2,210	23.6%	0	0	0	0	1,006	877	259	207	1,466	1,127
Estimated Total Solar Photovoltaic	All Facilities	7,273	5,841	24.5%	341	252	4,148	3,308	1,056	945	262	210	1,466	1,127
Estimated Total Solar	All Facilities	7,499	6,168	21.6%	341	259	4,374	3,627	1,056	945	262	210	1,466	1,127
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	111,697	112,615	-0.8%	82,689	83,219	28,412	28,753	28	29	567	615	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	3,540	4,441	-20.3%	2,673	3,086	733	1,234	45	26	89	95	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	628	670	-6.3%	519	573	80	56	0	1	29	40	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,262,290	1,520,435	-17.0%	608,421	743,200	535,784	662,816	11,572	10,877	106,513	103,542	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	2,360	2,894	-18.5%	208	193	262	292	84	125	1,805	2,283	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	426	468	-8.9%	8	11	170	152	54	32	194	272	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	140	166	-15.7%	0	1	18	19	3	4	119	142	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	164,362	163,368	0.6%	2,036	2,231	43,148	49,050	9,548	8,771	109,630	103,317	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	114,056	115,509	-1.3%	82,898	83,411	28,674	29,046	112	154	2,372	2,898	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	3,966	4,908	-19.2%	2,681	3,098	903	1,386	99	58	283	367	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	768	836	-8.1%	519	574	97	75	4	5	148	182	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,426,652	1,683,803	-15.3%	610,457	745,431	578,932	711,866	21,120	19,648	216,143	206,859	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through February									
	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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	Percentage Change
Residential	230,138	246,584	-6.7%	28,719	29,726	-3.4%	12.48	12.05	3.6%
Commercial	208,702	212,747	-1.9%	21,550	21,497	0.2%	10.33	10.10	2.3%
Industrial	147,336	149,801	-1.6%	9,720	9,580	1.5%	6.60	6.40	3.1%
Transportation	1,303	1,307	-0.3%	122	123	-0.9%	9.39	9.45	-0.6%
All Sectors	587,479	610,439	-3.8%	60,111	60,926	-1.3%	10.23	9.98	2.5%

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Coal generation and consumption includes anthracite, bituminous, subbituminous, lignite, waste coal, refined coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
Petroleum Coke includes petroleum coke and synthesis gas derived from petroleum coke.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.
Other Gases includes blast furnace gas and other manufactured and waste gases derived from fossil fuels.
Wood and Wood-Derived Fuels include wood, black liquor, and other wood waste.
Other Biomass includes biogenic municipal solid waste, landfill gas, sludge waste, agricultural byproducts, and other biomass.
Coal stocks include anthracite, bituminous, subbituminous, lignite, refined coal, and synthetic coal; waste coal is excluded.
Sales of electricity to ultimate customers and net generation may not correspond exactly for a particular month for a variety of reasons (e.g., sales data may include imported electricity).
Net generation is presented for the calendar month while sales of electricity to ultimate customers and associated revenue accumulate from bills collected for periods of time that vary depending

Table ES2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units, 2017 and 2016

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
Coal (1000 tons)	52,062	49,873	39.58	40.90	268	269	108,635	103,229	39.82	40.74
Petroleum Liquids (1000 barrels)	1,015	1,307	70.06	42.32	122	165	2,561	2,807	71.06	45.05
Petroleum Coke (1000 tons)	271	408	56.03	35.80	6	10	522	749	58.01	37.23
Natural Gas (1000 Mcf)	516,936	709,538	3.69	2.79	470	712	1,104,312	1,503,509	4.00	2.96

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
Coal (1000 tons)	38,088	36,885	40.63	42.04	182	187	78,742	75,690	40.99	41.91
Petroleum Liquids (1000 barrels)	754	954	69.80	42.15	81	104	1,823	1,975	68.38	45.04
Petroleum Coke (1000 tons)	271	356	56.03	31.18	6	8	522	634	58.01	31.96
Natural Gas (1000 Mcf)	242,634	343,232	3.96	3.07	247	386	521,116	724,424	4.24	3.23

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
Coal (1000 tons)	13,269	12,416	35.70	36.54	68	61	28,485	26,324	35.87	36.37
Petroleum Liquids (1000 barrels)	241	308	W	41.44	31	51	698	764	78.09	43.98
Petroleum Coke (1000 tons)	0	47	--	W	0	1	0	96	--	67.88
Natural Gas (1000 Mcf)	221,341	310,739	3.44	2.51	177	279	473,410	660,582	3.79	2.71

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
Coal (1000 tons)	4	5	W	W	1	1	9	12	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)	624	477	W	W	3	3	1,263	1,680	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
Coal (1000 tons)	702	566	W	W	17	20	1,400	1,204	W	W
Petroleum Liquids (1000 barrels)	19	45	W	51.85	10	10	40	68	72.26	57.01
Petroleum Coke (1000 tons)	0	4	--	W	0	1	0	19	--	W
Natural Gas (1000 Mcf)	52,337	55,089	W	W	43	44	108,523	116,823	W	W

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

Table ES2.B. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Btus, 2017 and 2016

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
Coal	997,021	965,792	2.07	2.11	268	269	2,078,856	1,985,755	2.08	2.12
Petroleum Liquids	6,122	7,927	11.61	6.98	122	165	15,426	16,901	11.79	7.47
Petroleum Coke	7,593	11,272	2.00	1.30	6	10	14,652	20,912	2.07	1.33
Natural Gas	534,117	734,227	3.58	2.70	470	712	1,141,958	1,555,970	3.87	2.86
Fossil Fuels	1,544,853	1,719,218	2.60	2.37	633	893	3,250,892	3,579,537	2.72	2.45

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
Coal	732,713	717,946	2.11	2.16	182	187	1,515,996	1,464,562	2.13	2.17
Petroleum Liquids	4,563	5,810	11.53	6.92	81	104	11,061	11,996	11.27	7.42
Petroleum Coke	7,593	9,837	2.00	1.13	6	8	14,652	17,773	2.07	1.14
Natural Gas	250,636	355,300	3.83	2.96	247	386	538,861	749,306	4.10	3.13
Fossil Fuels	995,506	1,088,893	2.58	2.44	359	509	2,080,570	2,243,637	2.68	2.50

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
Coal	249,202	235,185	1.90	1.93	68	61	532,772	494,097	1.92	1.94
Petroleum Liquids	1,438	1,842	W	6.92	31	51	4,117	4,489	13.23	7.47
Petroleum Coke	0	1,313	--	W	0	1	0	2,617	--	2.50
Natural Gas	228,800	321,535	3.33	2.43	177	279	489,646	684,237	3.66	2.61
Fossil Fuels	479,440	559,875	W	W	226	332	1,026,535	1,185,440	2.71	W

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
Coal	91	124	W	W	1	1	202	262	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	646	488	W	W	3	3	1,308	1,729	W	W
Fossil Fuels	737	612	W	W	3	3	1,510	1,991	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	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
Coal	15,014	12,538	W	W	17	20	29,886	26,834	W	W
Petroleum Liquids	121	274	W	8.45	10	10	249	416	11.60	9.28
Petroleum Coke	0	122	--	W	0	1	0	522	--	W
Natural Gas	54,035	56,903	W	W	43	44	112,143	120,698	W	W
Fossil Fuels	69,169	69,837	W	W	45	49	142,277	148,469	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), 2007-February 2017
(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															
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	1,240,108	12,675	11,232	1,380,295	13,000	805,327	265,829	36,754	306,861	-6,686	13,683	4,079,079	19,467	52,833	56,221
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	103,791	1,241	66,149	27,025	2,713	28,631	-384	1,099	304,168	1,582	4,038	4,295
April	72,022	794	1,037	99,561	1,149	62,365	25,475	2,949	26,812	-452	1,123	292,836	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 2017															
January	115,549	1,175	945	91,325	1,115	73,121	27,704	2,206	27,232	-418	1,118	341,072	1,282	3,398	3,488
February	87,267	916	707	78,581	1,152	64,053	24,611	2,562	28,045	-504	1,024	288,414	1,449	3,875	4,011
Year to Date															
2015	259,427	7,148	2,146	193,003	2,271	137,731	46,424	2,639	43,043	-1,007	2,105	694,931	1,562	3,977	4,201
2016	206,270	2,579	1,857	207,977	2,432	138,163	49,576	3,958	52,231	-710	2,161	666,494	2,210	5,841	6,168
2017	202,817	2,092	1,651	169,907	2,267	137,173	52,316	4,767	55,277	-922	2,142	629,486	2,731	7,273	7,499
Rolling 12 Months Ending in February															
2016	1,299,241	12,803	10,589	1,348,456	13,277	797,609	252,232	26,212	279,456	-4,795	14,084	4,049,165	14,787	37,670	40,999
2017	1,236,655	12,187	11,026	1,342,224	12,835	804,338	268,569	37,563	309,907	-6,898	13,664	4,042,070	19,988	54,265	57,552

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 and 2017 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-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.1.A. Net Generation from Renewable Sources: Total (All Sectors), 2007-February 2017
(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 Photovoltaic	Estimated Total Solar
Annual Totals													
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	226,872	33,367	3,388	40,504	11,562	7,375	3,131	17,417	265,829	609,445	19,467	52,833	56,221
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	21,979	2,456	257	3,381	938	588	285	1,460	27,025	58,369	1,582	4,038	4,295
April	20,745	2,676	273	2,909	937	602	280	1,340	25,475	55,236	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 2017													
January	20,350	2,116	90	3,451	986	620	286	1,541	27,704	57,142	1,282	3,398	3,488
February	21,692	2,426	136	3,308	881	530	266	1,369	24,611	55,218	1,449	3,875	4,011
Year to Date													
2015	30,084	2,414	225	7,089	1,677	1,085	488	2,622	46,424	92,107	1,562	3,977	4,201
2016	38,735	3,631	327	7,009	1,899	1,175	570	2,843	49,576	105,765	2,210	5,841	6,168
2017	42,041	4,542	226	6,759	1,867	1,149	551	2,910	52,316	112,360	2,731	7,273	7,499
Rolling 12 Months Ending in February													
2016	199,370	22,883	3,329	41,849	11,514	7,301	3,283	16,139	252,232	557,900	14,787	37,670	40,999
2017	230,178	34,277	3,286	40,253	11,530	7,350	3,112	17,483	268,569	616,039	19,988	54,265	57,552

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 and 2017 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-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.A. Net Generation by Energy Source: Electric Utilities, 2007-February 2017
(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												
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	923,299	8,671	8,881	654,476	164	424,400	246,649	2,271	40,588	-5,629	312	2,304,081
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	56,901	584	724	49,809	6	34,445	24,916	173	3,693	-291	34	170,993
April	53,477	568	858	46,627	8	34,036	23,633	186	3,891	-367	28	162,944
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 2017												
January	86,163	839	743	44,026	16	38,425	25,618	158	3,039	-328	49	198,748
February	65,271	660	540	37,367	22	34,403	22,749	184	3,437	-414	46	164,264
Year to Date												
2015	185,663	3,161	1,692	90,524	50	72,854	43,598	155	6,007	-846	86	402,944
2016	153,867	1,704	1,566	100,139	7	72,255	45,117	259	6,942	-562	54	381,348
2017	151,434	1,499	1,282	81,393	38	72,828	48,367	341	6,476	-742	95	363,011
Rolling 12 Months Ending in February												
2016	966,589	8,930	8,152	627,432	NM	416,080	231,158	1,598	36,927	-3,821	525	2,293,727
2017	920,866	8,465	8,598	635,730	NM	424,972	249,899	2,354	40,121	-5,809	354	2,285,744

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 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 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.B Net Generation by Energy Source: Independent Power Producers, 2007-February 2017
(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												
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	3,374	1,400	625,841	3,902	380,928	17,821	33,886	235,404	-1,057	7,126	1,615,768
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	205	138	45,836	367	31,704	1,956	2,491	22,334	-93	556	119,847
April	17,802	193	97	45,069	321	28,329	1,706	2,717	20,533	-84	575	117,259
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 2017												
January	28,560	277	132	38,789	348	34,695	1,951	2,024	21,515	-90	584	128,785
February	21,282	212	102	33,664	322	29,650	1,738	2,349	22,081	-90	519	111,830
Year to Date												
2015	71,791	3,750	260	87,133	673	64,877	2,595	2,438	31,882	-161	1,049	266,287
2016	50,621	765	141	91,696	703	65,908	4,182	3,627	40,059	-148	1,148	258,703
2017	49,842	489	233	72,453	670	64,345	3,689	4,374	43,596	-180	1,103	240,615
Rolling 12 Months Ending in February												
2016	321,438	3,256	1,481	624,403	3,547	381,529	19,583	24,151	211,036	-974	6,938	1,596,388
2017	306,364	3,098	1,493	606,598	3,869	379,365	17,328	34,632	238,940	-1,089	7,081	1,597,680

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 and 2017 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.C. Net Generation by Energy Source: Commercial Sector, 2007-February 2017
(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															
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 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 2017															
January	40	18	1	662	0	0	NM	23	227	0	86	1,060	481	503	503
February	31	9	1	576	0	0	NM	27	204	0	79	931	526	553	553
Year to Date															
2015	115	94	2	1,063	0	0	6	43	424	0	166	1,913	683	727	727
2016	90	24	2	1,198	0	0	NM	68	442	0	167	2,001	877	945	945
2017	71	27	2	1,238	0	0	NM	50	431	0	165	1,992	1,006	1,056	1,056
Rolling 12 Months Ending in February															
2016	484	113	8	7,606	0	0	NM	441	2,822	0	1,172	12,684	5,883	6,324	6,324
2017	418	NM	5	7,790	0	0	NM	548	2,584	0	1,073	12,583	7,309	7,856	7,856

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 and 2017 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-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.D. Net Generation by Energy Source: Industrial Sector, 2007-February 2017
(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															
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 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 2017															
January	786	42	69	7,848	751	0	132	NM	2,450	0	399	12,479	120	NM	NM
February	683	35	65	6,975	808	0	120	NM	2,323	0	380	11,389	139	NM	NM
Year to Date															
2015	1,859	143	191	14,283	1,548	0	226	2	4,731	0	804	23,788	164	167	167
2016	1,693	86	149	14,944	1,721	0	267	NM	4,787	0	792	24,442	207	210	210
2017	1,469	77	134	14,823	1,559	0	251	NM	4,774	0	779	23,868	259	262	262
Rolling 12 Months Ending in February															
2016	10,730	505	948	89,016	9,574	0	1,451	NM	28,670	0	5,450	146,367	1,494	NM	NM
2017	9,007	515	NM	92,107	8,772	0	1,285	NM	28,261	0	5,157	146,063	1,875	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 and 2017 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-861M, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.E. Net Generation by Energy Source: Residential Sector, 2014-February 2017
(Thousand Megawatthours)

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,465
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 2017	
January	682
February	784
Year to Date	
2015	714
2016	1,127
2017	1,466
Rolling 12 Months Ending in February	
2016	7,411
2017	10,804

See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 and 2017 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-861M, 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, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	8,079	8,597	-6.0%	221	275	7,523	7,978	95	103	239	242
Connecticut	2,742	3,058	-10.3%	6	NM	2,671	2,986	30	31	35	37
Maine	912	1,165	-21.8%	0	NM	716	963	13	15	183	187
Massachusetts	2,635	2,374	11.0%	NM	41	2,542	2,273	40	46	19	NM
New Hampshire	1,295	1,426	-9.2%	101	130	1,185	1,289	7	NM	2	NM
Rhode Island	324	362	-10.3%	1	1	320	355	4	NM	0	0
Vermont	171	213	-19.6%	81	100	90	112	0	NM	0	0
Middle Atlantic	29,276	33,865	-13.6%	2,575	2,755	26,188	30,532	159	184	355	394
New Jersey	4,756	5,969	-20.3%	-3	0	4,654	5,847	46	57	60	64
New York	9,342	10,648	-12.3%	2,568	2,747	6,621	7,712	84	101	69	87
Pennsylvania	15,178	17,249	-12.0%	10	NM	14,913	16,973	29	26	226	242
East North Central	43,562	47,048	-7.4%	18,279	20,316	24,256	25,712	148	159	879	861
Illinois	13,162	14,348	-8.3%	421	295	12,494	13,799	32	35	216	219
Indiana	7,671	8,501	-9.8%	6,452	6,872	829	1,318	20	20	370	290
Michigan	8,238	9,436	-12.7%	5,931	6,664	2,143	2,566	65	79	100	126
Ohio	9,590	9,501	0.9%	1,647	2,376	7,865	7,037	21	NM	58	77
Wisconsin	4,900	5,262	-6.9%	3,829	4,109	926	991	9	13	135	149
West North Central	25,960	26,580	-2.3%	20,776	21,915	4,808	4,256	45	55	332	354
Iowa	3,798	4,606	-17.5%	2,568	3,262	1,074	1,142	13	21	143	182
Kansas	3,823	3,834	-0.3%	2,469	2,610	1,352	1,221	0	0	NM	NM
Minnesota	4,765	4,738	0.6%	3,646	3,696	966	914	17	18	136	110
Missouri	6,330	6,524	-3.0%	6,103	6,275	209	232	14	14	4	NM
Nebraska	2,976	3,053	-2.5%	2,457	2,725	482	291	2	NM	35	36
North Dakota	3,367	3,021	11.4%	2,819	2,719	536	282	0	NM	12	20
South Dakota	901	803	12.3%	714	628	188	175	NM	NM	0	0
South Atlantic	54,744	63,224	-13.4%	46,447	53,294	6,654	8,389	99	108	1,545	1,433
Delaware	391	502	-22.0%	NM	NM	280	431	1	NM	111	67
District of Columbia	5	NM	NM	0	0	4	0	2	NM	0	0
Florida	15,503	16,656	-6.9%	14,408	15,239	686	1,018	6	NM	404	393
Georgia	8,772	9,762	-10.1%	7,383	8,603	968	757	NM	NM	421	401
Maryland	2,055	2,780	-26.1%	NM	NM	1,991	2,720	39	41	25	17
North Carolina	8,898	10,772	-17.4%	7,947	9,911	789	705	17	25	145	131
South Carolina	6,911	7,955	-13.1%	6,642	7,633	107	176	0	NM	162	146
Virginia	6,822	8,087	-15.6%	5,696	6,606	903	1,245	34	28	190	208
West Virginia	5,385	6,706	-19.7%	4,371	5,298	928	1,338	0	0	87	70
East South Central	25,146	29,375	-14.4%	22,012	25,172	2,429	3,459	13	NM	692	731
Alabama	9,910	11,382	-12.9%	7,691	8,256	1,888	2,780	0	0	331	346
Kentucky	5,311	6,677	-20.5%	5,263	6,626	NM	NM	0	0	46	49
Mississippi	3,641	5,466	-33.4%	2,970	4,641	524	661	1	NM	146	164
Tennessee	6,284	5,849	7.4%	6,087	5,648	16	17	12	NM	169	173
West South Central	46,224	49,447	-6.5%	13,991	15,782	26,328	27,303	67	69	5,839	6,294
Arkansas	4,276	4,149	3.1%	3,160	3,284	974	710	1	NM	142	155
Louisiana	6,711	8,168	-17.8%	3,733	4,672	665	834	14	NM	2,299	2,647
Oklahoma	5,110	5,465	-6.5%	2,486	3,042	2,560	2,352	0	NM	64	71
Texas	30,127	31,666	-4.9%	4,612	4,785	22,129	23,406	52	54	3,334	3,421
Mountain	25,946	27,008	-3.9%	20,402	20,838	5,266	5,887	40	NM	237	252
Arizona	6,677	7,320	-8.8%	6,175	6,455	491	856	11	NM	0	0
Colorado	4,172	4,212	-0.9%	3,178	3,024	986	1,181	NM	NM	6	NM
Idaho	1,265	1,290	-1.9%	855	794	359	448	4	NM	47	47
Montana	2,459	2,230	10.3%	966	689	1,489	1,539	0	0	3	NM
Nevada	2,573	2,788	-7.7%	1,786	2,059	764	687	8	NM	15	NM
New Mexico	2,497	2,339	6.8%	1,830	1,605	659	719	9	NM	0	NM
Utah	2,656	2,862	-7.2%	2,315	2,704	282	120	7	NM	52	NM
Wyoming	3,647	3,968	-8.1%	3,298	3,509	236	337	0	0	114	122
Pacific Contiguous	28,392	27,402	3.6%	18,837	17,450	8,095	8,611	222	189	1,237	1,152
California	14,675	13,475	8.9%	7,061	5,644	6,336	6,672	213	179	1,066	979
Oregon	4,768	5,084	-6.2%	3,809	3,793	905	1,241	6	NM	47	44
Washington	8,949	8,844	1.2%	7,966	8,012	854	699	4	NM	124	130
Pacific Noncontiguous	1,086	1,203	-9.7%	724	856	282	268	44	34	35	46
Alaska	374	479	-21.9%	336	433	15	22	12	14	11	11
Hawaii	712	724	-1.7%	388	423	267	246	32	20	25	35
U.S. Total	288,414	313,749	-8.1%	164,264	178,652	111,830	122,395	931	944	11,389	11,758

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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 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	17,030	17,761	-4.1%	448	590	15,863	16,468	204	206	514	498
Connecticut	6,003	6,249	-3.9%	12	NM	5,848	6,096	63	66	80	78
Maine	1,862	2,415	-22.9%	0	NM	1,445	2,002	29	32	389	381
Massachusetts	5,443	4,904	11.0%	72	89	5,240	4,697	90	85	41	33
New Hampshire	2,697	3,036	-11.2%	199	281	2,480	2,740	14	NM	5	NM
Rhode Island	676	710	-4.8%	1	2	667	696	8	NM	0	0
Vermont	348	447	-22.2%	163	210	184	237	1	NM	0	0
Middle Atlantic	62,776	71,454	-12.1%	5,377	5,637	56,331	64,644	337	381	731	792
New Jersey	10,305	12,580	-18.1%	-8	-7	10,090	12,350	97	110	126	128
New York	19,881	22,081	-10.0%	5,367	5,627	14,188	16,067	183	212	143	174
Pennsylvania	32,590	36,794	-11.4%	17	NM	32,054	36,227	57	60	462	489
East North Central	94,849	101,098	-6.2%	39,843	43,103	52,867	55,935	316	317	1,824	1,744
Illinois	29,574	31,417	-5.9%	808	608	28,226	30,285	70	70	470	454
Indiana	17,151	18,053	-5.0%	14,650	14,710	1,734	2,728	41	40	726	575
Michigan	17,795	19,975	-10.9%	12,860	14,362	4,578	5,200	138	157	220	257
Ohio	19,740	20,494	-3.7%	3,207	4,625	16,367	15,689	45	NM	120	156
Wisconsin	10,590	11,159	-5.1%	8,318	8,799	1,963	2,032	22	27	288	301
West North Central	57,080	57,039	0.1%	46,926	48,030	9,353	8,181	98	111	704	717
Iowa	9,113	9,728	-6.3%	6,685	7,045	2,086	2,274	31	42	310	367
Kansas	8,361	7,945	5.2%	5,660	5,716	2,695	2,221	0	0	6	NM
Minnesota	10,325	9,961	3.7%	8,168	7,932	1,837	1,769	36	37	284	223
Missouri	14,150	14,449	-2.1%	13,725	13,986	388	427	27	29	10	NM
Nebraska	6,371	6,707	-5.0%	5,374	6,047	923	584	3	3	71	73
North Dakota	6,832	6,471	5.6%	5,740	5,856	1,069	576	0	NM	23	38
South Dakota	1,928	1,778	8.4%	1,575	1,448	353	330	NM	NM	0	0
South Atlantic	120,003	132,677	-9.6%	101,798	112,141	14,823	17,250	208	222	3,174	3,065
Delaware	763	1,037	-26.4%	NM	NM	542	871	1	NM	220	159
District of Columbia	15	NM	NM	0	0	9	0	6	NM	0	0
Florida	32,932	34,658	-5.0%	30,638	31,830	1,437	1,974	14	15	843	840
Georgia	19,121	21,086	-9.3%	16,309	18,615	1,953	1,625	NM	3	858	843
Maryland	4,729	5,687	-16.8%	NM	3	4,597	5,561	80	86	51	37
North Carolina	19,881	23,167	-14.2%	17,986	21,483	1,556	1,354	37	47	302	283
South Carolina	15,135	16,752	-9.7%	14,545	16,098	249	326	0	NM	341	327
Virginia	15,006	16,390	-8.4%	12,650	13,298	1,909	2,600	69	60	378	431
West Virginia	12,420	13,892	-10.6%	9,668	10,808	2,570	2,939	0	0	182	145
East South Central	54,662	62,667	-12.8%	48,080	53,787	5,109	7,341	29	NM	1,443	1,514
Alabama	20,887	24,338	-14.2%	16,219	17,612	3,979	6,017	0	0	688	709
Kentucky	12,354	14,288	-13.5%	12,233	14,156	24	24	0	0	97	108
Mississippi	7,795	11,448	-31.9%	6,409	9,844	1,076	1,268	3	NM	307	335
Tennessee	13,627	12,593	8.2%	13,220	12,175	29	31	26	NM	352	362
West South Central	101,040	105,867	-4.6%	31,868	35,203	56,722	57,628	151	140	12,299	12,895
Arkansas	9,590	9,273	3.4%	7,733	7,352	1,559	1,612	1	NM	298	308
Louisiana	14,816	17,177	-13.7%	8,361	9,861	1,575	1,841	29	29	4,851	5,446
Oklahoma	10,934	11,905	-8.2%	5,526	6,904	5,269	4,851	0	0	140	149
Texas	65,699	67,512	-2.7%	10,248	11,086	48,320	49,324	120	110	7,011	6,991
Mountain	57,337	58,380	-1.8%	45,825	45,848	10,928	11,945	85	74	499	512
Arizona	14,674	15,913	-7.8%	13,630	14,054	1,022	1,838	23	NM	0	0
Colorado	9,115	8,950	1.8%	7,036	6,762	2,063	2,175	NM	NM	13	NM
Idaho	2,716	2,666	1.9%	1,873	1,647	736	917	9	NM	99	101
Montana	5,221	4,670	11.8%	2,065	1,426	3,149	3,239	0	0	7	4
Nevada	5,655	6,067	-6.8%	4,027	4,565	1,579	1,427	17	18	33	NM
New Mexico	5,636	5,271	6.9%	4,231	3,806	1,387	1,439	18	NM	0	NM
Utah	6,320	6,380	-0.9%	5,654	6,030	547	255	15	NM	104	82
Wyoming	7,999	8,462	-5.5%	7,309	7,558	446	655	0	0	244	249
Pacific Contiguous	62,308	57,041	9.2%	41,179	35,244	18,050	18,738	474	443	2,605	2,615
California	32,178	28,369	13.4%	15,502	11,366	13,983	14,318	454	424	2,239	2,262
Oregon	10,516	10,408	1.0%	8,277	7,780	2,124	2,522	13	13	103	93
Washington	19,614	18,263	7.4%	17,401	16,097	1,943	1,899	7	NM	263	260
Pacific Noncontiguous	2,401	2,510	-4.3%	1,667	1,766	570	573	90	81	74	90
Alaska	892	998	-10.7%	812	902	33	44	26	29	21	23
Hawaii	1,510	1,512	-0.1%	856	864	537	529	64	52	53	67
U.S. Total	629,486	666,494	-5.6%	363,011	381,348	240,615	258,703	1,992	2,001	23,868	24,442

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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 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	408	368	10.8%	49	64	356	301	0	0	NM	3
Connecticut	-2	14	-115.5%	0	0	-2	14	0	0	0	0
Maine	11	7	72.4%	0	0	8	5	0	0	NM	1
Massachusetts	350	284	23.2%	0	0	350	283	0	0	0	NM
New Hampshire	49	64	-23.8%	49	64	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	3,475	4,988	-30.3%	0	0	3,426	4,923	0	0	49	65
New Jersey	84	119	-29.5%	0	0	84	119	0	0	0	0
New York	NM	218	NM	0	0	NM	192	0	0	26	26
Pennsylvania	3,294	4,651	-29.2%	0	0	3,271	4,611	0	0	22	39
East North Central	21,416	21,171	1.2%	12,766	13,223	8,460	7,733	NM	14	186	200
Illinois	4,070	4,114	-1.1%	398	235	3,531	3,753	NM	4	137	122
Indiana	5,548	5,883	-5.7%	5,317	5,433	231	447	0	3	0	0
Michigan	3,046	3,416	-10.8%	3,006	3,364	35	35	0	7	NM	10
Ohio	5,793	5,230	10.8%	1,126	1,712	4,663	3,498	0	0	NM	19
Wisconsin	2,960	2,529	17.0%	2,919	2,480	0	0	0	0	40	49
West North Central	13,865	14,577	-4.9%	13,628	14,312	0	NM	13	14	224	249
Iowa	1,230	1,940	-36.6%	1,097	1,776	0	0	8	9	125	155
Kansas	1,489	1,637	-9.0%	1,489	1,637	0	0	0	0	0	0
Minnesota	1,925	1,871	2.9%	1,867	1,821	0	0	0	NM	57	50
Missouri	5,025	5,041	-0.3%	5,020	5,033	0	NM	5	5	0	NM
Nebraska	1,754	1,691	3.7%	1,719	1,656	0	0	0	0	35	34
North Dakota	2,299	2,217	3.7%	2,293	2,209	0	0	0	0	NM	8
South Dakota	143	180	-20.9%	143	180	0	0	0	0	0	0
South Atlantic	13,107	18,820	-30.4%	11,748	16,271	1,280	2,432	6	9	73	107
Delaware	10	80	-87.4%	0	0	10	80	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,765	2,312	19.6%	2,750	2,296	0	0	0	0	NM	15
Georgia	1,462	2,757	-47.0%	1,442	2,738	0	0	0	0	NM	19
Maryland	469	1,170	-59.9%	0	0	462	1,165	0	0	7	5
North Carolina	1,595	2,723	-41.4%	1,564	2,693	11	NM	4	8	15	15
South Carolina	1,129	1,792	-37.0%	1,127	1,781	0	0	0	0	2	11
Virginia	602	1,629	-63.1%	567	1,541	19	60	2	NM	14	27
West Virginia	5,075	6,355	-20.2%	4,298	5,222	777	1,118	0	0	0	15
East South Central	9,015	10,633	-15.2%	8,770	10,253	183	294	0	0	62	85
Alabama	2,525	2,303	9.7%	2,519	2,295	0	0	0	0	NM	8
Kentucky	4,712	5,641	-16.5%	4,712	5,641	0	0	0	0	0	0
Mississippi	260	557	-53.3%	77	263	183	294	0	0	0	0
Tennessee	1,518	2,131	-28.8%	1,462	2,054	0	0	0	0	56	77
West South Central	12,525	9,952	25.9%	6,736	5,060	5,760	4,856	0	0	29	35
Arkansas	1,862	1,594	16.9%	1,570	1,232	288	357	0	0	4	5
Louisiana	1,014	892	13.6%	691	685	322	208	0	0	0	0
Oklahoma	1,290	1,263	2.1%	1,183	1,075	83	157	0	0	24	30
Texas	8,359	6,203	34.8%	3,292	2,068	5,067	4,135	0	0	0	0
Mountain	12,800	11,985	6.8%	11,370	10,571	1,399	1,375	0	0	30	40
Arizona	2,446	1,908	28.2%	2,446	1,908	0	0	0	0	0	0
Colorado	2,413	2,167	11.3%	2,411	2,162	0	NM	0	0	1	NM
Idaho	NM	6	NM	0	0	0	0	0	0	NM	6
Montana	1,271	1,238	2.7%	24	NM	1,246	1,223	0	0	1	NM
Nevada	156	154	1.0%	95	93	61	61	0	0	0	0
New Mexico	1,454	1,160	25.3%	1,454	1,160	0	0	0	0	0	0
Utah	1,916	2,070	-7.4%	1,881	2,042	35	NM	0	0	0	0
Wyoming	3,140	3,282	-4.3%	3,060	3,192	57	NM	0	0	23	33
Pacific Contiguous	523	30	NM	182	0	314	0	0	0	28	30
California	25	26	-5.9%	0	0	0	0	0	0	25	26
Oregon	182	0	--	182	0	0	0	0	0	0	0
Washington	317	4	NM	0	0	314	0	0	0	3	4
Pacific Noncontiguous	134	196	-31.4%	NM	48	104	137	9	9	0	NM
Alaska	42	74	-43.8%	NM	48	11	16	9	9	0	0
Hawaii	93	122	-24.0%	0	0	93	121	0	0	0	NM
U.S. Total	87,267	92,719	-5.9%	65,271	69,803	21,282	22,053	31	47	683	817

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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 1.4.B. Utility Scale Facility Net Generation from Coal

by State, by Sector, Year-to-Date through February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	734	889	-17.5%	90	144	637	739	0	0	NM	6
Connecticut	38	57	-34.7%	0	0	38	57	0	0	0	0
Maine	23	16	45.3%	0	0	16	13	0	0	NM	2
Massachusetts	584	672	-13.1%	0	0	584	668	0	0	0	NM
New Hampshire	90	144	-37.8%	90	144	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	8,114	11,210	-27.6%	0	0	8,005	11,078	0	0	108	132
New Jersey	217	240	-9.6%	0	0	217	240	0	0	0	0
New York	255	375	-32.1%	0	0	202	325	0	0	52	50
Pennsylvania	7,642	10,595	-27.9%	0	0	7,586	10,513	0	0	56	82
East North Central	47,668	47,507	0.3%	28,251	28,550	19,006	18,514	10	23	401	421
Illinois	9,859	9,842	0.2%	759	516	8,794	9,060	8	8	298	258
Indiana	12,829	12,567	2.1%	12,289	11,633	539	928	2	6	0	0
Michigan	6,778	7,775	-12.8%	6,692	7,670	76	70	0	9	NM	26
Ohio	11,798	11,636	1.4%	2,193	3,141	9,597	8,455	0	0	NM	40
Wisconsin	6,404	5,687	12.6%	6,318	5,591	0	0	0	0	86	96
West North Central	32,490	32,889	-1.2%	32,002	32,355	1	NM	29	29	459	502
Iowa	4,131	4,503	-8.2%	3,862	4,176	0	0	18	19	252	308
Kansas	3,571	3,719	-4.0%	3,571	3,719	0	0	0	0	0	0
Minnesota	4,432	4,292	3.3%	4,308	4,189	0	0	1	NM	123	103
Missouri	11,454	11,195	2.3%	11,443	11,178	1	NM	11	10	0	NM
Nebraska	3,854	3,906	-1.3%	3,783	3,835	0	0	0	0	71	71
North Dakota	4,687	4,858	-3.5%	4,673	4,841	0	0	0	0	14	17
South Dakota	362	416	-13.1%	362	416	0	0	0	0	0	0
South Atlantic	32,527	39,484	-17.6%	28,744	34,139	3,598	5,098	14	19	172	228
Delaware	28	210	-86.6%	0	0	28	210	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,068	4,864	24.7%	6,036	4,831	0	0	0	0	NM	33
Georgia	4,017	5,724	-29.8%	3,972	5,687	0	0	0	0	NM	37
Maryland	1,219	2,230	-45.3%	0	0	1,204	2,219	0	0	15	12
North Carolina	4,479	6,517	-31.3%	4,407	6,453	27	NM	11	16	33	33
South Carolina	2,903	3,622	-19.9%	2,898	3,596	0	0	0	0	6	27
Virginia	2,041	3,117	-34.5%	1,923	2,919	73	142	3	NM	41	54
West Virginia	11,773	13,198	-10.8%	9,508	10,653	2,264	2,512	0	0	0	32
East South Central	21,023	22,907	-8.2%	20,533	22,214	355	513	0	0	135	180
Alabama	5,058	4,769	6.1%	5,044	4,752	0	0	0	0	NM	18
Kentucky	11,008	12,069	-8.8%	11,008	12,069	0	0	0	0	0	0
Mississippi	785	1,039	-24.4%	431	526	355	513	0	0	0	0
Tennessee	4,171	5,030	-17.1%	4,050	4,868	0	0	0	0	121	162
West South Central	30,027	23,047	30.3%	15,716	11,941	14,249	11,029	0	0	62	77
Arkansas	4,940	3,505	41.0%	4,377	2,735	554	759	0	0	9	12
Louisiana	2,403	1,966	22.2%	1,537	1,409	866	557	0	0	0	0
Oklahoma	2,772	2,849	-2.7%	2,505	2,415	214	368	0	0	53	66
Texas	19,912	14,727	35.2%	7,297	5,382	12,615	9,345	0	0	0	0
Mountain	28,564	27,202	5.0%	25,496	24,128	3,000	2,992	0	0	68	82
Arizona	5,324	4,572	16.4%	5,324	4,572	0	0	0	0	0	0
Colorado	5,219	4,917	6.2%	5,217	4,906	0	10	0	0	2	NM
Idaho	11	13	-19.4%	0	0	0	0	0	0	11	13
Montana	2,726	2,693	1.2%	51	NM	2,673	2,657	0	0	2	NM
Nevada	352	308	14.4%	218	175	134	132	0	0	0	0
New Mexico	3,391	2,875	18.0%	3,391	2,875	0	0	0	0	0	0
Utah	4,525	4,685	-3.4%	4,452	4,621	73	NM	0	0	0	0
Wyoming	7,015	7,139	-1.7%	6,842	6,942	120	129	0	0	53	67
Pacific Contiguous	1,421	743	91.2%	554	308	810	372	0	0	57	62
California	51	56	-7.8%	0	0	0	0	0	0	51	56
Oregon	554	308	79.6%	554	308	0	0	0	0	0	0
Washington	815	379	115.3%	0	0	810	372	0	0	6	7
Pacific Noncontiguous	250	391	-36.1%	49	87	183	282	18	20	0	NM
Alaska	91	141	-35.4%	49	87	24	34	18	20	0	0
Hawaii	159	251	-36.6%	0	0	159	248	0	0	0	NM
U.S. Total	202,817	206,270	-1.7%	151,434	153,867	49,842	50,621	71	90	1,469	1,693

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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.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	41	108	-62.3%	3	3	33	96	4	7	NM	NM
Connecticut	4	3	31.9%	0	NM	4	2	NM	NM	0	NM
Maine	2	59	-96.3%	0	NM	1	56	0	NM	NM	NM
Massachusetts	29	41	-29.7%	NM	1	27	37	NM	NM	0	NM
New Hampshire	3	NM	NM	2	NM	NM	NM	2	NM	0	NM
Rhode Island	NM	3	NM	1	1	NM	1	1	NM	0	0
Vermont	0	NM	NM	0	NM	0	0	0	NM	0	0
Middle Atlantic	63	256	-75.2%	23	87	34	158	NM	NM	4	6
New Jersey	NM	34	NM	NM	NM	NM	34	0	NM	0	NM
New York	43	201	-78.4%	23	87	NM	105	NM	NM	4	4
Pennsylvania	18	21	-15.0%	0	NM	17	20	0	NM	NM	NM
East North Central	30	46	-35.8%	19	29	9	16	0	NM	2	2
Illinois	4	8	-47.1%	NM	NM	4	8	0	NM	0	0
Indiana	7	10	-25.3%	6	9	0	NM	0	NM	1	1
Michigan	5	9	-42.4%	4	8	0	0	0	0	0	NM
Ohio	12	16	-27.9%	6	9	5	7	0	NM	0	NM
Wisconsin	NM	4	NM	NM	2	0	2	0	NM	NM	NM
West North Central	19	23	-16.0%	19	23	NM	NM	0	NM	0	NM
Iowa	NM	8	NM	NM	8	NM	NM	0	NM	0	NM
Kansas	3	2	62.1%	3	2	0	0	0	0	0	0
Minnesota	NM	2	NM	NM	2	NM	NM	0	NM	0	NM
Missouri	5	8	-40.7%	5	8	0	NM	0	NM	0	0
Nebraska	NM	0	NM	NM	0	0	0	0	0	0	0
North Dakota	4	3	17.7%	4	3	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	147	197	-25.4%	109	127	33	59	2	NM	NM	10
Delaware	NM	26	NM	0	NM	NM	25	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	44	13	240.1%	44	11	NM	NM	0	0	NM	NM
Georgia	-1	7	-116.8%	-5	3	NM	NM	0	0	NM	4
Maryland	4	27	-85.2%	0	NM	4	25	0	NM	0	NM
North Carolina	31	40	-21.4%	27	37	4	2	0	NM	NM	NM
South Carolina	NM	21	NM	NM	18	0	NM	0	NM	0	3
Virginia	41	57	-27.4%	NM	50	21	6	2	NM	NM	NM
West Virginia	15	7	111.8%	15	7	0	0	0	0	0	0
East South Central	19	16	17.0%	18	15	NM	NM	0	NM	NM	NM
Alabama	NM	4	NM	2	2	NM	NM	0	0	NM	NM
Kentucky	9	8	11.9%	9	8	0	0	0	0	0	0
Mississippi	NM	1	NM	NM	1	0	0	0	0	0	0
Tennessee	8	3	158.4%	7	3	0	NM	0	NM	0	NM
West South Central	17	9	96.5%	7	5	10	3	0	NM	NM	NM
Arkansas	8	1	767.3%	NM	1	7	0	0	0	NM	NM
Louisiana	NM	2	NM	NM	1	0	1	0	0	0	0
Oklahoma	1	0	187.7%	1	0	0	0	0	NM	0	NM
Texas	6	5	12.5%	3	3	3	2	0	NM	0	NM
Mountain	19	15	26.0%	18	14	1	1	0	NM	0	NM
Arizona	6	2	207.0%	6	2	0	0	0	NM	0	0
Colorado	NM	2	NM	NM	2	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	NM	1	NM	NM	NM	1	1	0	0	0	0
Nevada	0	0	-65.1%	0	0	0	0	0	0	0	0
New Mexico	NM	5	NM	NM	5	0	0	0	0	0	NM
Utah	3	2	53.2%	3	2	0	NM	0	0	0	NM
Wyoming	4	3	29.3%	4	3	0	0	0	0	0	NM
Pacific Contiguous	10	4	141.2%	NM	3	0	NM	0	NM	5	NM
California	7	3	166.9%	NM	2	0	NM	0	NM	5	NM
Oregon	1	NM	NM	1	0	0	0	0	NM	0	0
Washington	NM	2	NM	NM	NM	0	NM	0	NM	NM	1
Pacific Noncontiguous	551	562	-1.9%	438	473	93	68	1	1	20	20
Alaska	78	64	22.4%	73	60	0	0	1	NM	4	3
Hawaii	473	498	-5.0%	365	413	93	68	0	0	16	NM
U.S. Total	916	1,236	-25.9%	660	779	212	401	9	13	35	43

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

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

by State, by Sector, Year-to-Date through February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	84	161	-47.6%	7	12	62	132	12	11	NM	6
Connecticut	12	10	22.4%	1	1	11	6	NM	NM	0	NM
Maine	16	79	-79.6%	0	NM	13	75	0	NM	NM	NM
Massachusetts	45	59	-23.0%	NM	7	37	47	7	NM	0	NM
New Hampshire	6	NM	NM	3	1	NM	NM	3	NM	0	NM
Rhode Island	NM	8	NM	1	2	NM	4	1	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	0	NM	0	0
Middle Atlantic	159	389	-59.3%	46	138	97	230	NM	8	9	12
New Jersey	23	45	-48.4%	NM	NM	23	44	0	NM	0	NM
New York	92	295	-68.7%	46	138	31	141	NM	8	8	9
Pennsylvania	43	49	-12.0%	0	NM	42	46	1	NM	NM	2
East North Central	72	94	-23.5%	45	59	24	31	0	NM	3	4
Illinois	9	16	-43.4%	NM	1	8	14	0	1	0	0
Indiana	17	22	-22.8%	15	20	0	NM	0	NM	2	2
Michigan	12	18	-33.4%	12	18	0	0	0	0	0	0
Ohio	28	32	-14.2%	12	17	16	15	0	NM	0	NM
Wisconsin	NM	6	NM	NM	4	0	2	0	NM	NM	NM
West North Central	52	39	35.1%	51	37	0	1	0	NM	0	NM
Iowa	14	12	19.2%	14	12	NM	NM	0	NM	0	NM
Kansas	7	5	47.7%	7	5	0	0	0	0	0	0
Minnesota	NM	3	NM	NM	2	0	1	0	NM	0	NM
Missouri	10	13	-23.7%	10	13	0	NM	0	NM	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	11	4	140.9%	11	4	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	340	587	-42.0%	255	386	72	179	4	NM	8	20
Delaware	5	46	-89.2%	0	NM	5	45	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	69	48	45.3%	68	43	NM	NM	0	0	NM	NM
Georgia	14	42	-67.2%	4	12	7	20	0	1	NM	9
Maryland	17	64	-73.3%	1	2	16	61	0	NM	0	NM
North Carolina	82	101	-18.9%	71	68	9	31	0	NM	NM	NM
South Carolina	25	46	-46.1%	23	41	0	NM	0	NM	1	4
Virginia	101	224	-54.7%	62	202	35	21	4	NM	1	NM
West Virginia	27	17	60.9%	27	17	0	0	0	0	0	0
East South Central	51	55	-6.9%	47	46	2	5	0	NM	NM	NM
Alabama	8	15	-44.7%	5	7	2	5	0	0	NM	NM
Kentucky	21	17	24.6%	21	17	0	0	0	0	0	0
Mississippi	3	5	-51.4%	2	5	0	0	0	0	0	0
Tennessee	20	18	9.4%	19	17	0	NM	0	NM	0	NM
West South Central	30	25	19.8%	14	18	15	6	0	NM	NM	NM
Arkansas	13	8	69.8%	3	7	10	1	0	0	NM	NM
Louisiana	NM	4	NM	NM	2	0	2	0	0	0	0
Oklahoma	3	3	3.8%	3	2	0	0	0	NM	0	0
Texas	11	10	2.4%	6	7	5	3	0	NM	0	NM
Mountain	42	31	35.4%	39	28	4	3	0	NM	0	NM
Arizona	13	5	187.2%	13	5	0	0	0	NM	0	0
Colorado	NM	2	NM	NM	2	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	3	2	38.1%	NM	NM	3	2	0	0	0	0
Nevada	0	2	-75.1%	0	1	0	0	0	0	0	0
New Mexico	10	11	-9.3%	10	11	0	0	0	0	0	NM
Utah	6	3	114.7%	6	3	0	NM	0	0	0	NM
Wyoming	8	6	30.7%	8	6	0	0	0	0	0	NM
Pacific Contiguous	21	9	138.1%	10	6	3	NM	0	NM	7	1
California	11	6	85.3%	NM	5	0	NM	0	NM	5	NM
Oregon	3	NM	NM	3	0	0	0	0	NM	0	0
Washington	7	3	164.3%	NM	NM	3	0	0	NM	NM	1
Pacific Noncontiguous	1,240	1,190	4.2%	985	973	210	178	2	2	43	37
Alaska	185	136	35.6%	175	128	0	0	2	NM	8	7
Hawaii	1,055	1,053	0.2%	810	845	210	178	0	1	35	30
U.S. Total	2,092	2,579	-18.9%	1,499	1,704	489	765	27	24	77	86

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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, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
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	18	18	1.2%	0	0	0	0	0	0	18	18
New Jersey	6	NM	NM	0	0	0	0	0	0	6	NM
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	135	301	-55.3%	56	223	70	61	0	0	9	17
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	164	-100.0%	0	164	0	0	0	0	0	0
Michigan	64	67	-3.8%	56	56	0	0	0	0	9	NM
Ohio	70	62	12.7%	0	0	70	61	0	0	0	NM
Wisconsin	1	8	-89.0%	1	3	0	0	0	0	0	5
West North Central	1	NM	NM	0	0	0	0	1	1	0	NM
Iowa	1	NM	NM	0	0	0	0	1	1	0	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	98	124	-20.9%	84	117	0	0	0	0	NM	7
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	84	117	-27.6%	84	117	0	0	0	0	0	0
Georgia	NM	7	NM	0	0	0	0	0	0	NM	7
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	33	86	-61.7%	33	86	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	33	86	-61.7%	33	86	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	391	333	17.2%	366	308	0	0	0	0	25	25
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	383	323	18.6%	366	308	0	0	0	0	17	14
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	8	11	-25.8%	0	0	0	0	0	0	8	11
Mountain	32	38	-15.9%	0	0	32	38	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	32	38	-15.9%	0	0	32	38	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	707	904	-21.8%	540	734	102	99	1	1	65	70

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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 February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 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	42	36	15.3%	0	0	0	0	0	0	42	36
New Jersey	14	NM	NM	0	0	0	0	0	0	14	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	28	NM	NM	0	0	0	0	0	0	28	NM
East North Central	320	510	-37.3%	140	410	163	62	0	0	17	38
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	350	-100.0%	0	350	0	0	0	0	0	0
Michigan	150	81	85.3%	134	56	0	3	0	0	17	NM
Ohio	163	63	158.9%	0	0	163	60	0	0	0	NM
Wisconsin	7	17	-59.1%	7	4	0	0	0	0	0	13
West North Central	8	NM	NM	0	0	0	0	2	2	7	NM
Iowa	8	NM	NM	0	0	0	0	2	2	7	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	228	320	-28.8%	198	306	0	0	0	0	30	14
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	198	306	-35.4%	198	306	0	0	0	0	0	0
Georgia	30	14	111.9%	0	0	0	0	0	0	30	14
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	132	138	-4.7%	132	138	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	132	138	-4.7%	132	138	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	851	760	12.0%	813	712	0	0	0	0	38	48
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	835	736	13.4%	813	712	0	0	0	0	22	NM
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	16	24	-32.7%	0	0	0	0	0	0	16	24
Mountain	71	78	-9.4%	0	0	71	78	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	71	78	-9.4%	0	0	71	78	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,651	1,857	-11.1%	1,282	1,566	233	141	2	2	134	149

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	3,432	3,584	-4.2%	NM	6	3,256	3,411	71	77	92	90
Connecticut	1,217	1,430	-14.9%	4	0	1,148	1,363	30	31	35	37
Maine	129	311	-58.7%	0	0	NM	270	2	NM	36	39
Massachusetts	1,669	1,339	24.6%	NM	6	1,607	1,281	34	39	18	NM
New Hampshire	124	165	-24.8%	0	0	120	161	1	NM	2	NM
Rhode Island	293	339	-13.6%	0	0	290	335	3	NM	0	0
Vermont	0	NM	NM	0	0	0	0	0	NM	0	0
Middle Atlantic	9,361	11,021	-15.1%	706	814	8,439	9,956	77	91	138	159
New Jersey	1,687	2,818	-40.1%	2	NM	1,641	2,770	14	NM	30	27
New York	3,415	3,558	-4.0%	704	809	2,643	2,653	52	65	15	31
Pennsylvania	4,259	4,644	-8.3%	0	0	4,155	4,533	11	NM	93	101
East North Central	6,376	8,869	-28.1%	2,508	3,842	3,531	4,749	117	115	220	164
Illinois	854	1,142	-25.2%	NM	51	770	1,018	28	31	44	43
Indiana	1,365	1,547	-11.8%	1,063	1,214	195	279	17	14	91	41
Michigan	1,456	2,106	-30.9%	348	616	1,020	1,392	47	50	41	48
Ohio	2,031	2,665	-23.8%	478	639	1,520	2,012	19	NM	14	NM
Wisconsin	670	1,408	-52.4%	606	1,322	28	47	5	NM	31	29
West North Central	756	1,487	-49.2%	629	1,227	NM	201	14	23	31	37
Iowa	92	235	-60.8%	76	210	0	0	2	NM	14	18
Kansas	70	37	88.2%	70	36	0	0	0	0	NM	NM
Minnesota	319	743	-57.1%	274	625	NM	95	9	NM	12	12
Missouri	177	316	-43.9%	NM	204	NM	106	3	5	4	NM
Nebraska	NM	11	NM	NM	9	0	0	0	NM	0	1
North Dakota	40	68	-41.8%	39	66	0	0	0	0	0	NM
South Dakota	40	77	-48.5%	40	77	0	0	0	0	0	0
South Atlantic	22,016	23,230	-5.2%	18,685	19,469	2,946	3,440	42	46	344	275
Delaware	334	376	-11.2%	0	NM	262	317	0	0	72	56
District of Columbia	2	NM	NM	0	0	0	0	2	NM	0	0
Florida	9,804	10,972	-10.6%	9,375	10,184	320	678	2	NM	107	108
Georgia	3,966	3,797	4.5%	3,115	3,093	801	659	0	0	50	45
Maryland	397	291	36.5%	0	0	353	247	37	38	8	NM
North Carolina	3,040	3,440	-11.6%	2,667	3,103	366	323	1	1	NM	NM
South Carolina	1,072	1,011	6.0%	998	874	65	132	0	0	9	5
Virginia	3,358	3,314	1.3%	2,529	2,210	776	1,063	1	NM	52	42
West Virginia	43	25	72.0%	1	1	NM	22	0	0	39	2
East South Central	6,627	9,624	-31.1%	4,242	6,321	2,198	3,125	13	NM	174	166
Alabama	3,176	4,148	-23.4%	1,236	1,298	1,857	2,759	0	0	83	92
Kentucky	179	491	-63.6%	158	472	0	0	0	0	21	NM
Mississippi	2,540	4,167	-39.1%	2,168	3,766	339	366	1	NM	32	35
Tennessee	732	817	-10.4%	680	785	1	0	12	NM	39	20
West South Central	18,239	24,530	-25.6%	4,165	7,212	9,008	11,832	62	61	5,004	5,426
Arkansas	799	800	-0.2%	NM	438	667	336	0	NM	23	26
Louisiana	4,022	5,289	-24.0%	1,898	2,573	252	505	14	NM	1,858	2,196
Oklahoma	1,455	2,241	-35.1%	948	1,649	490	578	0	0	17	NM
Texas	11,964	16,200	-26.1%	1,211	2,552	7,599	10,413	48	47	3,106	3,188
Mountain	4,550	6,435	-29.3%	3,536	4,939	871	1,346	32	NM	111	129
Arizona	668	1,710	-60.9%	458	1,125	200	577	10	NM	0	0
Colorado	730	848	-14.0%	621	716	107	131	0	0	1	NM
Idaho	216	346	-37.5%	118	186	87	150	3	0	8	10
Montana	28	53	-46.5%	22	48	6	NM	0	0	1	0
Nevada	1,819	2,034	-10.5%	1,626	1,876	175	122	4	NM	15	NM
New Mexico	637	778	-18.1%	348	409	281	354	8	NM	0	NM
Utah	395	604	-34.7%	340	571	15	NM	6	NM	33	NM
Wyoming	56	62	-9.8%	NM	NM	0	NM	0	0	52	53
Pacific Contiguous	7,132	9,212	-22.6%	2,799	3,622	3,332	4,740	147	NM	854	745
California	5,704	6,910	-17.5%	2,131	2,524	2,595	3,554	141	NM	836	734
Oregon	827	1,337	-38.1%	315	503	502	825	4	NM	NM	NM
Washington	600	965	-37.8%	352	595	235	361	2	NM	11	8
Pacific Noncontiguous	92	198	-53.3%	85	190	0	0	1	0	6	NM
Alaska	92	198	-53.3%	85	190	0	0	1	0	6	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	78,581	98,190	-20.0%	37,367	47,642	33,664	42,799	576	550	6,975	7,198

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

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

by State, by Sector, Year-to-Date through February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	7,362	7,489	-1.7%	NM	8	6,984	7,137	149	154	200	190
Connecticut	2,742	2,991	-8.3%	8	0	2,591	2,849	63	65	80	77
Maine	277	704	-60.6%	0	0	196	619	5	NM	76	80
Massachusetts	3,456	2,654	30.2%	NM	8	3,323	2,545	73	73	39	27
New Hampshire	275	478	-42.5%	0	0	267	469	3	NM	5	NM
Rhode Island	612	662	-7.5%	0	0	607	654	6	NM	0	0
Vermont	0	NM	NM	0	0	0	0	0	NM	0	0
Middle Atlantic	20,004	23,113	-13.5%	1,513	1,683	18,045	20,907	164	192	281	331
New Jersey	3,728	5,967	-37.5%	7	NM	3,628	5,865	30	35	63	57
New York	7,378	7,647	-3.5%	1,506	1,672	5,728	5,775	112	136	33	63
Pennsylvania	8,898	9,499	-6.3%	1	0	8,689	9,268	23	NM	186	211
East North Central	13,509	17,916	-24.6%	5,391	7,862	7,390	9,484	247	233	481	336
Illinois	1,641	2,251	-27.1%	NM	72	1,450	2,029	61	60	97	90
Indiana	2,864	3,238	-11.6%	2,210	2,583	425	538	32	29	198	89
Michigan	3,348	4,160	-19.5%	864	1,194	2,295	2,772	99	105	90	90
Ohio	4,140	5,503	-24.8%	929	1,417	3,139	4,057	43	NM	30	NM
Wisconsin	1,515	2,763	-45.2%	1,356	2,597	81	88	13	19	65	58
West North Central	1,991	2,966	-32.9%	1,674	2,483	204	364	32	44	82	74
Iowa	260	487	-46.5%	211	437	0	0	6	14	43	35
Kansas	182	82	121.8%	177	77	0	0	0	0	5	NM
Minnesota	886	1,495	-40.8%	763	1,281	78	169	21	22	25	24
Missouri	391	605	-35.4%	251	398	NM	195	5	9	9	NM
Nebraska	60	19	224.3%	60	17	0	0	0	NM	0	2
North Dakota	101	139	-27.4%	101	134	0	0	0	0	0	NM
South Dakota	112	139	-19.9%	112	139	0	0	0	0	0	0
South Atlantic	44,915	47,662	-5.8%	38,257	40,184	5,861	6,789	90	97	706	592
Delaware	648	733	-11.5%	0	NM	495	600	0	0	153	129
District of Columbia	6	NM	NM	0	0	0	0	6	NM	0	0
Florida	20,268	22,732	-10.8%	19,373	21,232	664	1,266	5	NM	227	229
Georgia	8,112	7,999	1.4%	6,374	6,490	1,636	1,417	0	0	102	93
Maryland	632	479	32.0%	0	0	541	387	76	80	15	NM
North Carolina	6,252	6,777	-7.8%	5,466	6,091	768	657	1	2	16	27
South Carolina	2,067	2,240	-7.7%	1,874	1,998	171	231	0	NM	22	11
Virginia	6,826	6,644	2.7%	5,159	4,362	1,576	2,195	2	NM	90	87
West Virginia	103	48	116.0%	11	7	NM	37	0	0	82	4
East South Central	14,522	20,315	-28.5%	9,473	13,202	4,658	6,746	29	NM	363	342
Alabama	6,672	8,952	-25.5%	2,579	2,793	3,916	5,971	0	0	176	187
Kentucky	393	1,188	-66.9%	328	1,125	21	21	0	0	43	41
Mississippi	6,050	8,514	-28.9%	5,263	7,688	719	753	3	NM	65	72
Tennessee	1,407	1,661	-15.3%	1,303	1,596	1	0	26	NM	78	41
West South Central	38,665	53,030	-27.1%	8,975	15,665	18,939	26,191	140	125	10,611	11,048
Arkansas	1,275	2,000	-36.2%	NM	1,123	971	817	0	NM	55	59
Louisiana	8,261	11,103	-25.6%	3,738	5,574	517	1,035	29	29	3,976	4,466
Oklahoma	3,470	5,218	-33.5%	2,282	3,642	1,152	1,545	0	0	36	30
Texas	25,659	34,710	-26.1%	2,706	5,326	16,299	22,795	111	96	6,543	6,492
Mountain	11,062	14,141	-21.8%	8,739	10,784	2,012	3,048	68	55	243	254
Arizona	1,884	3,747	-49.7%	1,399	2,409	464	1,319	21	NM	0	0
Colorado	1,813	1,869	-3.0%	1,523	1,564	288	302	0	0	3	NM
Idaho	551	763	-27.7%	303	402	220	342	7	0	21	19
Montana	68	111	-39.2%	52	100	15	NM	0	0	1	0
Nevada	4,063	4,581	-11.3%	3,656	4,200	364	316	10	NM	33	NM
New Mexico	1,439	1,629	-11.7%	785	865	636	739	18	NM	0	NM
Utah	1,115	1,315	-15.2%	1,004	1,226	25	NM	13	NM	73	58
Wyoming	129	126	2.3%	17	NM	0	NM	0	0	112	108
Pacific Contiguous	17,605	20,927	-15.9%	7,084	7,862	8,362	11,030	317	272	1,843	1,763
California	13,502	15,829	-14.7%	4,998	5,479	6,396	8,360	304	258	1,804	1,732
Oregon	2,351	2,830	-16.9%	918	1,065	1,409	1,746	8	NM	15	9
Washington	1,753	2,268	-22.7%	1,167	1,318	557	925	4	NM	24	22
Pacific Noncontiguous	272	420	-35.2%	258	406	0	0	2	0	12	NM
Alaska	272	420	-35.2%	258	406	0	0	2	0	12	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	169,907	207,977	-18.3%	81,393	100,139	72,453	91,696	1,238	1,198	14,823	14,944

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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, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
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	64	74	-13.2%	0	0	0	0	0	0	64	74
New Jersey	18	31	-43.0%	0	0	0	0	0	0	18	31
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	46	43	8.5%	0	0	0	0	0	0	46	43
East North Central	505	509	-0.9%	22	4	194	227	0	0	289	278
Illinois	19	39	-50.4%	0	0	0	2	0	0	19	37
Indiana	258	218	18.5%	NM	NM	0	0	0	0	254	216
Michigan	143	134	6.1%	17	3	125	132	0	0	0	0
Ohio	85	118	-28.2%	0	0	69	93	0	0	16	25
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	NM	NM	0	0	0	0	0	0	4	NM
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	4	NM	NM	0	0	0	0	0	0	4	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	40	12	233.9%	0	0	0	0	0	0	40	12
Delaware	37	10	276.0%	0	0	0	0	0	0	37	10
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-19.2%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	2	2	38.2%	0	0	0	0	0	0	2	2
East South Central	2	NM	NM	0	0	0	0	0	0	2	NM
Alabama	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	-16.5%	0	0	0	0	0	0	1	1
West South Central	372	362	2.8%	0	0	105	79	0	0	267	283
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	166	183	-9.2%	0	0	0	0	0	0	166	183
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	206	179	15.0%	0	0	105	79	0	0	101	100
Mountain	38	38	0.9%	0	0	1	2	0	0	37	36
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	-5.8%	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	5	NM	NM	0	0	0	0	0	0	5	NM
Wyoming	32	36	-9.7%	0	0	0	0	0	0	32	36
Pacific Contiguous	121	160	-24.3%	0	0	22	28	0	0	99	132
California	99	132	-25.0%	0	0	0	0	0	0	99	132
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	22	28	-21.3%	0	0	22	28	0	0	0	0
Pacific Noncontiguous	5	NM	NM	0	0	0	0	0	0	5	NM
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	5	NM	NM	0	0	0	0	0	0	5	NM
U.S. Total	1,152	1,169	-1.5%	22	4	322	336	0	0	808	828

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

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

by State, by Sector, Year-to-Date through February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 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	122	133	-8.1%	0	0	0	0	0	0	122	133
New Jersey	37	58	-36.3%	0	0	0	0	0	0	37	58
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	85	74	14.0%	0	0	0	0	0	0	85	74
East North Central	974	987	-1.3%	38	7	392	448	0	0	545	532
Illinois	36	72	-50.2%	0	0	0	4	0	0	36	69
Indiana	486	420	15.7%	NM	NM	0	0	0	0	479	417
Michigan	293	274	7.1%	31	5	263	269	0	0	0	0
Ohio	159	221	-27.9%	0	0	129	175	0	0	30	46
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	8	NM	NM	0	0	0	0	0	0	8	NM
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	8	NM	NM	0	0	0	0	0	0	8	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	70	33	111.8%	0	0	0	0	0	0	70	33
Delaware	64	29	124.5%	0	0	0	0	0	0	64	29
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	1	-4.3%	0	0	0	0	0	0	1	1
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	5	4	31.8%	0	0	0	0	0	0	5	4
East South Central	5	NM	NM	0	0	0	0	0	0	5	NM
Alabama	3	NM	NM	0	0	0	0	0	0	3	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	2	2	-8.1%	0	0	0	0	0	0	2	2
West South Central	770	821	-6.3%	0	0	216	187	0	0	553	634
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	347	416	-16.6%	0	0	0	0	0	0	347	416
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	423	405	4.4%	0	0	216	187	0	0	206	218
Mountain	75	78	-3.6%	0	0	3	3	0	0	73	75
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	3	3	-6.1%	0	0	3	3	0	0	0	0
Nevada	0	1	-100.0%	0	0	0	1	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	5	NM	NM	0	0	0	0	0	0	5	NM
Wyoming	68	73	-7.5%	0	0	0	0	0	0	68	73
Pacific Contiguous	235	352	-33.2%	0	0	59	65	0	0	176	287
California	176	287	-38.8%	0	0	0	0	0	0	176	287
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	59	65	-8.5%	0	0	59	65	0	0	0	0
Pacific Noncontiguous	8	NM	NM	0	0	0	0	0	0	8	NM
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	8	NM	NM	0	0	0	0	0	0	8	NM
U.S. Total	2,267	2,432	-6.8%	38	7	670	703	0	0	1,559	1,721

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	2,590	2,727	-5.0%	0	0	2,590	2,727	0	0	0	0
Connecticut	1,405	1,454	-3.3%	0	0	1,405	1,454	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	344	403	-14.6%	0	0	344	403	0	0	0	0
New Hampshire	840	870	-3.4%	0	0	840	870	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	12,649	13,348	-5.2%	0	0	12,649	13,348	0	0	0	0
New Jersey	2,788	2,775	0.5%	0	0	2,788	2,775	0	0	0	0
New York	3,037	3,706	-18.1%	0	0	3,037	3,706	0	0	0	0
Pennsylvania	6,824	6,866	-0.6%	0	0	6,824	6,866	0	0	0	0
East North Central	11,968	12,720	-5.9%	2,255	2,325	9,714	10,395	0	0	0	0
Illinois	7,041	7,822	-10.0%	0	0	7,041	7,822	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,801	2,893	-3.2%	2,255	2,325	546	568	0	0	0	0
Ohio	1,317	1,167	12.9%	0	0	1,317	1,167	0	0	0	0
Wisconsin	809	839	-3.5%	0	0	809	839	0	0	0	0
West North Central	3,789	3,940	-3.8%	3,378	3,513	411	427	0	0	0	0
Iowa	411	427	-3.8%	0	0	411	427	0	0	0	0
Kansas	824	846	-2.6%	824	846	0	0	0	0	0	0
Minnesota	1,190	910	30.9%	1,190	910	0	0	0	0	0	0
Missouri	828	863	-4.0%	828	863	0	0	0	0	0	0
Nebraska	536	895	-40.2%	536	895	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	15,640	16,479	-5.1%	14,786	15,574	854	906	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	2,083	2,586	-19.4%	2,083	2,586	0	0	0	0	0	0
Georgia	2,661	2,394	11.2%	2,661	2,394	0	0	0	0	0	0
Maryland	854	906	-5.7%	0	0	854	906	0	0	0	0
North Carolina	3,301	3,341	-1.2%	3,301	3,341	0	0	0	0	0	0
South Carolina	4,293	4,690	-8.4%	4,293	4,690	0	0	0	0	0	0
Virginia	2,448	2,563	-4.5%	2,448	2,563	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	7,049	5,488	28.4%	7,049	5,488	0	0	0	0	0	0
Alabama	3,157	3,167	-0.3%	3,157	3,167	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	725	611	18.7%	725	611	0	0	0	0	0	0
Tennessee	3,166	1,710	85.1%	3,166	1,710	0	0	0	0	0	0
West South Central	5,401	5,764	-6.3%	1,968	2,209	3,433	3,555	0	0	0	0
Arkansas	1,192	1,105	7.9%	1,192	1,105	0	0	0	0	0	0
Louisiana	776	1,105	-29.8%	776	1,105	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,433	3,555	-3.4%	0	0	3,433	3,555	0	0	0	0
Mountain	2,684	2,793	-3.9%	2,684	2,793	0	0	0	0	0	0
Arizona	2,684	2,793	-3.9%	2,684	2,793	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	2,283	2,378	-4.0%	2,283	2,378	0	0	0	0	0	0
California	1,526	1,583	-3.5%	1,526	1,583	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	757	795	-4.9%	757	795	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	64,053	65,638	-2.4%	34,403	34,281	29,650	31,357	0	0	0	0

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

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

by State, by Sector, Year-to-Date through February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	5,578	5,504	1.3%	0	0	5,578	5,504	0	0	0	0
Connecticut	2,958	2,850	3.8%	0	0	2,958	2,850	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	849	911	-6.8%	0	0	849	911	0	0	0	0
New Hampshire	1,771	1,744	1.5%	0	0	1,771	1,744	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	26,901	28,032	-4.0%	0	0	26,901	28,032	0	0	0	0
New Jersey	5,937	5,913	0.4%	0	0	5,937	5,913	0	0	0	0
New York	6,525	7,582	-13.9%	0	0	6,525	7,582	0	0	0	0
Pennsylvania	14,438	14,537	-0.7%	0	0	14,438	14,537	0	0	0	0
East North Central	26,230	26,897	-2.5%	4,665	4,829	21,566	22,068	0	0	0	0
Illinois	15,822	16,657	-5.0%	0	0	15,822	16,657	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	5,817	6,001	-3.1%	4,665	4,829	1,152	1,172	0	0	0	0
Ohio	2,885	2,504	15.2%	0	0	2,885	2,504	0	0	0	0
Wisconsin	1,706	1,735	-1.7%	0	0	1,706	1,735	0	0	0	0
West North Central	7,956	8,082	-1.6%	7,086	7,204	870	879	0	0	0	0
Iowa	870	879	-1.0%	0	0	870	879	0	0	0	0
Kansas	1,737	1,756	-1.1%	1,737	1,756	0	0	0	0	0	0
Minnesota	2,477	1,796	37.9%	2,477	1,796	0	0	0	0	0	0
Missouri	1,736	1,786	-2.8%	1,736	1,786	0	0	0	0	0	0
Nebraska	1,136	1,866	-39.1%	1,136	1,866	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	34,313	35,130	-2.3%	32,130	32,947	2,183	2,183	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	4,819	5,334	-9.7%	4,819	5,334	0	0	0	0	0	0
Georgia	5,590	5,435	2.8%	5,590	5,435	0	0	0	0	0	0
Maryland	2,183	2,183	0.0%	0	0	2,183	2,183	0	0	0	0
North Carolina	7,187	7,201	-0.2%	7,187	7,201	0	0	0	0	0	0
South Carolina	9,322	9,653	-3.4%	9,322	9,653	0	0	0	0	0	0
Virginia	5,212	5,324	-2.1%	5,212	5,324	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	13,774	11,896	15.8%	13,774	11,896	0	0	0	0	0	0
Alabama	6,837	6,856	-0.3%	6,837	6,856	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	712	1,625	-56.2%	712	1,625	0	0	0	0	0	0
Tennessee	6,224	3,415	82.3%	6,224	3,415	0	0	0	0	0	0
West South Central	11,989	11,897	0.8%	4,741	4,655	7,247	7,242	0	0	0	0
Arkansas	2,472	2,491	-0.8%	2,472	2,491	0	0	0	0	0	0
Louisiana	2,269	2,164	4.9%	2,269	2,164	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	7,247	7,242	0.1%	0	0	7,247	7,242	0	0	0	0
Mountain	5,664	5,796	-2.3%	5,664	5,796	0	0	0	0	0	0
Arizona	5,664	5,796	-2.3%	5,664	5,796	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	4,769	4,929	-3.2%	4,769	4,929	0	0	0	0	0	0
California	3,171	3,273	-3.1%	3,171	3,273	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1,597	1,656	-3.5%	1,597	1,656	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	137,173	138,163	-0.7%	72,828	72,255	64,345	65,908	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, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	573	737	-22.3%	78	114	462	583	0	NM	33	40
Connecticut	25	38	-34.8%	2	NM	23	35	0	0	0	0
Maine	276	334	-17.4%	0	0	244	295	0	0	32	39
Massachusetts	70	99	-29.6%	17	NM	51	71	0	NM	1	NM
New Hampshire	107	136	-21.6%	26	37	81	99	0	0	0	0
Rhode Island	0	NM	NM	0	0	0	NM	0	0	0	0
Vermont	96	130	-26.2%	34	48	62	82	0	0	0	0
Middle Atlantic	2,412	2,695	-10.5%	1,877	1,887	528	801	0	NM	6	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,185	2,308	-5.3%	1,867	1,880	311	421	0	NM	6	NM
Pennsylvania	225	384	-41.4%	10	NM	215	376	0	0	0	0
East North Central	439	395	10.9%	380	332	41	47	0	NM	NM	NM
Illinois	12	NM	NM	NM	NM	6	NM	0	NM	0	0
Indiana	32	24	28.9%	32	24	0	0	0	0	0	0
Michigan	137	128	6.6%	126	117	NM	NM	0	0	NM	NM
Ohio	38	35	9.7%	21	12	18	NM	0	0	0	0
Wisconsin	220	194	13.1%	196	172	NM	NM	0	0	NM	NM
West North Central	1,095	884	23.9%	1,063	857	NM	NM	0	0	NM	NM
Iowa	90	77	17.1%	90	76	1	NM	0	0	0	0
Kansas	2	NM	NM	0	0	2	NM	0	0	0	0
Minnesota	81	70	16.7%	NM	NM	NM	NM	0	0	NM	NM
Missouri	130	133	-2.5%	130	133	0	0	0	0	0	0
Nebraska	158	140	13.3%	158	140	0	0	0	0	0	0
North Dakota	193	168	14.9%	193	168	0	0	0	0	0	0
South Dakota	441	294	49.8%	441	294	0	0	0	0	0	0
South Atlantic	1,318	2,040	-35.4%	1,023	1,667	247	316	1	NM	47	55
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	20	NM	NM	20	NM	0	0	0	0	0	0
Georgia	261	377	-30.7%	260	373	NM	NM	0	0	1	NM
Maryland	204	258	-20.7%	0	0	204	258	0	0	0	0
North Carolina	373	725	-48.5%	369	717	NM	NM	1	NM	NM	NM
South Carolina	227	311	-27.1%	222	302	NM	NM	0	NM	0	0
Virginia	101	191	-47.1%	96	182	5	NM	0	0	0	NM
West Virginia	131	152	-13.8%	57	67	29	34	0	0	45	51
East South Central	1,915	3,049	-37.2%	1,914	3,048	NM	NM	0	0	0	0
Alabama	777	1,495	-48.0%	777	1,495	0	0	0	0	0	0
Kentucky	340	407	-16.5%	339	406	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	797	1,148	-30.5%	797	1,148	0	0	0	0	0	0
West South Central	679	937	-27.5%	591	814	88	123	0	0	0	0
Arkansas	290	514	-43.5%	289	508	NM	NM	0	0	0	0
Louisiana	84	113	-26.0%	0	0	84	113	0	0	0	0
Oklahoma	222	168	32.0%	222	168	0	0	0	0	0	0
Texas	83	141	-41.1%	81	137	3	NM	0	0	0	0
Mountain	2,648	2,225	19.0%	2,550	2,151	98	73	0	NM	0	0
Arizona	553	588	-6.0%	553	588	0	0	0	0	0	0
Colorado	157	176	-11.3%	141	159	NM	NM	0	NM	0	0
Idaho	803	649	23.8%	736	607	67	NM	0	0	0	0
Montana	913	610	49.7%	900	598	NM	NM	0	0	0	0
Nevada	62	89	-30.3%	60	87	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	71	67	6.1%	70	66	1	NM	0	0	0	0
Wyoming	78	33	136.4%	78	32	0	NM	0	0	0	0
Pacific Contiguous	13,379	11,058	21.0%	13,125	10,937	253	120	NM	NM	0	0
California	3,552	1,556	128.3%	3,349	1,486	201	69	NM	NM	0	0
Oregon	3,279	3,255	0.7%	3,255	3,232	NM	NM	0	0	0	0
Washington	6,548	6,247	4.8%	6,521	6,219	NM	NM	0	0	0	0
Pacific Noncontiguous	153	130	17.7%	148	125	0	0	0	0	NM	NM
Alaska	147	123	19.3%	147	123	0	0	0	0	0	0
Hawaii	NM	NM	NM	1	NM	0	0	0	0	NM	NM
U.S. Total	24,611	24,150	1.9%	22,749	21,931	1,738	2,082	NM	NM	120	131

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

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

by State, by Sector, Year-to-Date through February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	1,227	1,538	-20.2%	169	246	989	1,212	1	NM	68	78
Connecticut	54	86	-36.5%	3	NM	51	79	0	0	0	0
Maine	583	694	-15.9%	0	0	516	617	0	0	67	77
Massachusetts	151	214	-29.5%	38	60	111	152	1	NM	1	NM
New Hampshire	231	262	-11.8%	54	75	177	187	0	0	0	0
Rhode Island	0	NM	NM	0	0	0	NM	0	0	0	0
Vermont	207	280	-26.3%	73	104	133	177	0	0	0	0
Middle Atlantic	5,047	5,550	-9.1%	3,893	3,906	1,141	1,629	1	NM	12	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	4,559	4,818	-5.4%	3,876	3,889	669	914	1	NM	12	NM
Pennsylvania	485	724	-33.0%	17	NM	468	707	0	0	0	0
East North Central	941	839	12.2%	815	709	89	98	0	NM	36	NM
Illinois	24	29	-16.4%	NM	NM	14	16	0	NM	0	0
Indiana	67	67	-0.3%	67	67	0	0	0	0	0	0
Michigan	293	257	14.1%	272	236	NM	NM	0	0	NM	NM
Ohio	82	94	-12.3%	45	46	38	48	0	0	0	0
Wisconsin	473	391	21.1%	421	347	NM	NM	0	0	31	NM
West North Central	2,341	2,122	10.3%	2,273	2,065	44	NM	0	0	25	NM
Iowa	198	156	27.4%	197	155	1	NM	0	0	0	0
Kansas	5	NM	NM	0	0	5	NM	0	0	0	0
Minnesota	175	142	23.5%	113	91	NM	NM	0	0	25	NM
Missouri	280	465	-39.9%	280	465	0	0	0	0	0	0
Nebraska	344	282	22.1%	344	282	0	0	0	0	0	0
North Dakota	410	331	23.8%	410	331	0	0	0	0	0	0
South Dakota	928	741	25.3%	928	741	0	0	0	0	0	0
South Atlantic	2,904	4,690	-38.1%	2,277	3,989	526	583	2	NM	99	114
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	43	55	-21.5%	43	55	0	0	0	0	0	0
Georgia	581	945	-38.6%	577	938	NM	NM	0	0	2	NM
Maryland	431	470	-8.3%	0	0	431	470	0	0	0	0
North Carolina	828	1,653	-49.9%	818	1,636	7	NM	2	NM	NM	NM
South Carolina	509	856	-40.6%	498	837	10	NM	0	NM	0	0
Virginia	233	414	-43.8%	220	393	13	NM	0	0	0	NM
West Virginia	279	296	-5.7%	121	131	63	60	0	0	96	105
East South Central	4,187	6,367	-34.2%	4,186	6,365	NM	NM	0	0	0	0
Alabama	1,755	3,204	-45.2%	1,755	3,204	0	0	0	0	0	0
Kentucky	726	786	-7.6%	725	784	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1,706	2,377	-28.2%	1,706	2,377	0	0	0	0	0	0
West South Central	1,486	2,155	-31.0%	1,299	1,902	187	253	0	0	0	0
Arkansas	636	996	-36.1%	632	984	NM	NM	0	0	0	0
Louisiana	177	232	-23.8%	0	0	177	232	0	0	0	0
Oklahoma	479	595	-19.5%	479	595	0	0	0	0	0	0
Texas	194	332	-41.5%	189	323	6	NM	0	0	0	0
Mountain	5,648	4,575	23.4%	5,441	4,428	206	146	1	NM	0	0
Arizona	1,180	1,205	-2.1%	1,180	1,205	0	0	0	0	0	0
Colorado	326	357	-8.6%	294	323	NM	NM	1	NM	0	0
Idaho	1,708	1,325	28.8%	1,567	1,243	140	83	0	0	0	0
Montana	1,953	1,267	54.2%	1,925	1,243	NM	NM	0	0	0	0
Nevada	145	187	-22.5%	142	184	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	149	134	11.2%	146	133	3	NM	0	0	0	0
Wyoming	165	75	120.0%	165	73	0	NM	0	0	0	0
Pacific Contiguous	28,206	21,467	31.4%	27,699	21,243	503	222	NM	NM	0	0
California	7,326	2,646	176.9%	6,929	2,522	394	122	NM	NM	0	0
Oregon	6,764	6,344	6.6%	6,712	6,297	52	47	0	0	0	0
Washington	14,116	12,478	13.1%	14,059	12,424	57	54	0	0	0	0
Pacific Noncontiguous	329	274	20.0%	316	264	3	1	0	0	NM	NM
Alaska	313	260	20.4%	313	260	0	0	0	0	0	0
Hawaii	NM	NM	NM	3	NM	3	1	0	0	NM	NM
U.S. Total	52,316	49,576	5.5%	48,367	45,117	3,689	4,182	NM	NM	251	267

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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, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	939	958	-1.9%	78	88	749	760	15	12	98	98
Connecticut	60	72	-16.9%	0	0	60	72	0	0	0	0
Maine	462	426	8.4%	0	0	358	322	6	6	98	98
Massachusetts	145	173	-15.9%	NM	7	135	162	4	NM	0	NM
New Hampshire	168	185	-9.2%	25	29	139	155	4	NM	0	0
Rhode Island	29	19	54.9%	0	0	29	18	1	NM	0	0
Vermont	74	82	-9.6%	46	52	28	30	0	NM	0	0
Middle Atlantic	1,144	1,364	-16.1%	5	9	1,022	1,235	48	55	70	65
New Jersey	134	155	-13.5%	5	9	108	118	21	28	NM	NM
New York	528	620	-14.8%	0	0	495	585	15	16	18	19
Pennsylvania	482	589	-18.1%	0	0	419	533	12	11	52	46
East North Central	2,654	2,983	-11.0%	290	361	2,230	2,470	17	17	118	135
Illinois	1,147	1,193	-3.9%	NM	NM	1,143	1,189	NM	NM	0	0
Indiana	441	626	-29.5%	30	26	403	593	2	NM	6	5
Michigan	601	682	-11.9%	150	200	400	418	9	11	42	53
Ohio	231	206	11.9%	NM	NM	204	175	1	NM	24	27
Wisconsin	234	276	-15.0%	104	129	79	95	4	3	46	49
West North Central	6,396	5,595	14.3%	2,043	1,938	4,281	3,597	14	15	58	44
Iowa	1,970	1,915	2.9%	1,301	1,192	663	714	2	3	4	5
Kansas	1,434	1,310	9.5%	83	89	1,350	1,219	0	0	NM	NM
Minnesota	1,222	1,116	9.5%	254	283	912	792	NM	5	52	35
Missouri	161	133	21.1%	NM	NM	150	124	6	5	0	NM
Nebraska	509	316	60.9%	26	24	482	291	2	NM	0	0
North Dakota	823	554	48.5%	287	270	536	282	0	0	NM	NM
South Dakota	277	251	10.3%	89	76	188	175	0	0	0	0
South Atlantic	2,248	2,104	6.9%	218	195	1,114	1,048	34	38	883	823
Delaware	9	11	-17.9%	NM	NM	7	8	1	NM	NM	NM
District of Columbia	4	0	--	0	0	4	0	0	0	0	0
Florida	461	393	17.3%	52	19	232	214	4	5	173	156
Georgia	506	418	21.2%	17	5	164	97	NM	NM	325	314
Maryland	102	111	-8.0%	NM	NM	90	101	2	3	10	7
North Carolina	517	454	13.9%	20	19	384	337	11	14	102	83
South Carolina	220	195	12.9%	35	35	37	35	0	0	148	125
Virginia	311	358	-13.2%	93	116	79	91	16	14	123	137
West Virginia	118	165	-28.1%	0	0	118	165	0	0	0	0
East South Central	506	519	-2.5%	8	7	47	40	NM	NM	451	473
Alabama	270	263	2.8%	0	0	31	21	0	0	240	242
Kentucky	34	38	-9.9%	8	7	1	NM	0	0	25	31
Mississippi	115	129	-10.9%	0	0	NM	NM	0	0	114	128
Tennessee	87	90	-3.1%	0	0	14	17	NM	NM	72	73
West South Central	8,499	7,456	14.0%	165	172	7,913	6,852	4	8	416	423
Arkansas	123	134	-8.3%	NM	0	9	12	0	NM	114	122
Louisiana	215	210	2.2%	0	0	7	7	0	0	208	203
Oklahoma	2,148	1,789	20.1%	139	148	1,985	1,617	0	0	23	24
Texas	6,013	5,322	13.0%	26	24	5,912	5,217	4	7	71	74
Mountain	3,142	3,456	-9.1%	268	396	2,836	3,022	8	11	30	28
Arizona	324	321	0.9%	32	40	291	280	NM	NM	0	0
Colorado	890	1,039	-14.4%	27	10	862	1,028	NM	NM	0	NM
Idaho	236	283	-16.7%	NM	NM	205	256	1	NM	28	25
Montana	185	259	-28.5%	NM	28	164	230	0	0	2	NM
Nevada	533	511	4.4%	2	NM	527	502	4	6	0	NM
New Mexico	390	384	1.6%	12	19	378	365	NM	NM	0	0
Utah	253	108	134.0%	21	23	231	84	1	NM	0	0
Wyoming	331	551	-40.0%	152	274	179	278	0	0	0	0
Pacific Contiguous	4,955	4,586	8.0%	527	599	4,154	3,704	73	83	200	200
California	3,780	3,301	14.5%	135	138	3,525	3,040	69	80	50	43
Oregon	475	488	-2.6%	57	58	376	388	2	NM	40	40
Washington	700	797	-12.2%	336	403	253	277	NM	NM	110	117
Pacific Noncontiguous	121	104	16.9%	19	19	85	62	17	14	NM	9
Alaska	NM	20	NM	NM	10	NM	NM	1	4	NM	NM
Hawaii	106	84	26.6%	9	8	80	57	16	10	0	8
U.S. Total	30,607	29,125	5.1%	3,621	3,784	24,430	22,790	231	252	2,325	2,298

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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 February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	1,834	1,941	-5.5%	154	179	1,438	1,535	31	25	211	202
Connecticut	124	153	-18.9%	0	0	123	153	0	0	0	0
Maine	897	864	3.7%	0	0	673	650	13	13	211	201
Massachusetts	296	324	-8.4%	NM	14	276	304	9	NM	0	NM
New Hampshire	316	396	-20.1%	52	60	257	332	7	4	0	0
Rhode Island	60	39	55.2%	0	0	59	38	1	NM	0	0
Vermont	140	166	-15.5%	90	106	50	60	0	NM	0	0
Middle Atlantic	2,201	2,793	-21.2%	9	13	1,948	2,538	98	108	145	134
New Jersey	270	279	-3.2%	9	13	217	215	43	50	NM	NM
New York	1,001	1,297	-22.8%	0	0	931	1,226	33	34	37	38
Pennsylvania	930	1,217	-23.6%	0	0	800	1,097	22	25	108	95
East North Central	5,075	6,249	-18.8%	559	735	4,224	5,201	36	35	257	277
Illinois	2,146	2,513	-14.6%	6	6	2,139	2,506	NM	NM	0	0
Indiana	848	1,331	-36.3%	62	55	770	1,262	4	3	12	11
Michigan	1,152	1,418	-18.7%	280	416	758	871	20	22	95	110
Ohio	459	437	5.1%	NM	NM	402	374	2	NM	50	56
Wisconsin	470	551	-14.7%	207	253	154	190	9	7	100	101
West North Central	12,169	10,709	13.6%	3,815	3,718	8,209	6,873	30	30	115	88
Iowa	3,630	3,676	-1.3%	2,400	2,265	1,216	1,394	6	7	8	10
Kansas	2,859	2,378	20.2%	168	159	2,690	2,216	0	0	NM	3
Minnesota	2,291	2,172	5.5%	482	548	1,697	1,545	NM	10	104	70
Missouri	282	247	14.3%	8	7	261	228	12	11	1	NM
Nebraska	976	634	53.8%	49	48	923	584	3	3	0	0
North Dakota	1,609	1,119	43.7%	538	539	1,069	576	0	0	NM	4
South Dakota	523	482	8.4%	169	152	353	330	0	0	0	0
South Atlantic	4,516	4,233	6.7%	460	388	2,190	2,012	69	74	1,797	1,759
Delaware	18	20	-9.0%	NM	NM	14	16	1	NM	NM	NM
District of Columbia	9	0	--	0	0	9	0	0	0	0	0
Florida	967	813	18.9%	103	29	495	443	9	9	360	332
Georgia	996	863	15.4%	32	9	309	185	NM	NM	654	667
Maryland	197	219	-10.1%	NM	NM	171	199	4	6	21	13
North Carolina	975	812	20.0%	37	34	707	575	23	26	209	178
South Carolina	442	425	4.0%	71	70	66	75	0	0	305	280
Virginia	678	749	-9.4%	215	244	185	189	32	29	246	287
West Virginia	234	331	-29.4%	0	0	234	331	0	0	0	0
East South Central	1,044	1,066	-2.0%	16	14	93	76	NM	NM	935	975
Alabama	554	536	3.4%	0	0	61	42	0	0	493	494
Kentucky	70	82	-13.9%	16	14	1	NM	0	0	53	66
Mississippi	244	264	-7.9%	0	0	NM	NM	0	0	241	262
Tennessee	176	184	-4.2%	0	0	28	31	NM	NM	148	153
West South Central	17,018	13,905	22.4%	323	300	15,849	12,718	10	15	836	873
Arkansas	252	259	-3.0%	NM	0	19	23	1	NM	232	236
Louisiana	421	449	-6.1%	0	0	15	15	0	0	406	433
Oklahoma	4,221	3,240	30.3%	271	252	3,898	2,937	0	0	53	50
Texas	12,123	9,957	21.8%	51	48	11,917	9,742	9	14	145	153
Mountain	6,153	6,431	-4.3%	497	737	5,577	5,614	17	18	62	62
Arizona	614	590	3.9%	54	69	557	519	NM	NM	0	0
Colorado	1,797	1,848	-2.8%	54	18	1,739	1,828	NM	NM	1	NM
Idaho	438	553	-20.8%	NM	NM	376	492	2	NM	58	57
Montana	344	457	-24.8%	38	48	303	406	0	0	3	4
Nevada	1,090	990	10.1%	4	NM	1,079	975	7	10	0	NM
New Mexico	774	731	5.9%	23	31	751	700	NM	NM	0	0
Utah	493	219	125.6%	45	46	447	170	2	NM	0	0
Wyoming	603	1,043	-42.2%	277	519	325	524	0	0	0	0
Pacific Contiguous	9,794	8,664	13.0%	955	1,082	8,270	7,008	153	170	416	404
California	7,693	6,340	21.3%	288	273	7,162	5,814	146	164	97	89
Oregon	839	919	-8.7%	90	110	656	721	5	3	88	84
Washington	1,262	1,405	-10.2%	577	699	451	473	NM	3	231	230
Pacific Noncontiguous	241	200	20.4%	31	36	172	112	37	34	NM	19
Alaska	31	40	-23.3%	NM	20	NM	10	4	8	NM	NM
Hawaii	210	160	31.5%	14	15	164	101	33	26	0	17
U.S. Total	60,044	56,189	6.9%	6,818	7,202	47,970	43,687	481	510	4,776	4,791

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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, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	-37	-34	11.3%	0	0	-37	-34	0	0	0	0
Connecticut	-6	1	-808.6%	0	0	-6	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-31	-34	-9.3%	0	0	-31	-34	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	-90	-75	19.7%	-37	-42	-53	-33	0	0	0	0
New Jersey	-10	-14	-26.7%	-10	-14	0	0	0	0	0	0
New York	-26	-28	-6.9%	-26	-28	0	0	0	0	0	0
Pennsylvania	-53	-33	62.6%	0	0	-53	-33	0	0	0	0
East North Central	-32	-27	17.1%	-32	-27	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	-32	-27	17.1%	-32	-27	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	4	29	-85.2%	4	29	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	4	29	-85.2%	4	29	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	-207	-126	64.2%	-207	-126	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	-108	-4	NM	-108	-4	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	-44	-67	-34.3%	-44	-67	0	0	0	0	0	0
Virginia	-55	-55	0.1%	-55	-55	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-26	-52	-49.8%	-26	-52	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	-26	-52	-49.8%	-26	-52	0	0	0	0	0	0
West South Central	-7	2	-505.4%	-7	2	0	0	0	0	0	0
Arkansas	0	0	-138.0%	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-7	2	-544.2%	-7	2	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-26	-27	-1.1%	-26	-27	0	0	0	0	0	0
Arizona	-4	-2	145.0%	-4	-2	0	0	0	0	0	0
Colorado	-23	-25	-10.0%	-23	-25	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	-83	-89	-6.4%	-83	-89	0	0	0	0	0	0
California	-83	-89	-6.6%	-83	-89	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-1	0	31.3%	-1	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	-504	-399	26.5%	-414	-332	-90	-66	0	0	0	0

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

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

by State, by Sector, Year-to-Date through February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	-77	-73	6.5%	0	0	-77	-73	0	0	0	0
Connecticut	-6	4	-230.3%	0	0	-6	4	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-72	-77	-6.8%	0	0	-72	-77	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	-187	-179	4.6%	-84	-103	-103	-75	0	0	0	0
New Jersey	-24	-32	-22.9%	-24	-32	0	0	0	0	0	0
New York	-60	-72	-16.5%	-60	-72	0	0	0	0	0	0
Pennsylvania	-103	-75	36.3%	0	0	-103	-75	0	0	0	0
East North Central	-88	-66	33.1%	-88	-66	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	-88	-66	33.1%	-88	-66	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	-4	133	-102.8%	-4	133	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	-4	133	-102.8%	-4	133	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	-522	-198	163.5%	-522	-198	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	-240	43	-651.9%	-240	43	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	-141	-96	47.2%	-141	-96	0	0	0	0	0	0
Virginia	-141	-146	-3.3%	-141	-146	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-83	-97	-14.4%	-83	-97	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	-83	-97	-14.4%	-83	-97	0	0	0	0	0	0
West South Central	-13	11	-219.8%	-13	11	0	0	0	0	0	0
Arkansas	1	13	-92.2%	1	13	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-14	-2	527.5%	-14	-2	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-57	-53	6.9%	-57	-53	0	0	0	0	0	0
Arizona	-5	-2	137.0%	-5	-2	0	0	0	0	0	0
Colorado	-52	-51	1.2%	-52	-51	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	109	-188	-157.7%	109	-188	0	0	0	0	0	0
California	110	-187	-158.8%	110	-187	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-1	-1	19.9%	-1	-1	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	-922	-710	29.8%	-742	-562	-180	-148	0	0	0	0

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

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	133	148	-10.2%	0	0	115	134	5	7	12	8
Connecticut	38	46	-16.4%	0	0	38	46	0	0	0	0
Maine	32	29	9.9%	0	0	14	14	5	7	12	8
Massachusetts	59	69	-14.8%	0	0	59	69	0	0	0	0
New Hampshire	4	4	-6.0%	0	0	4	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	180	178	0.7%	0	0	143	145	31	33	6	0
New Jersey	45	42	8.8%	0	0	29	30	11	12	6	0
New York	63	65	-3.6%	0	0	49	50	14	15	0	0
Pennsylvania	71	71	0.0%	0	0	65	66	6	6	0	0
East North Central	72	80	-10.6%	15	4	7	14	10	12	39	50
Illinois	15	17	-11.0%	0	0	-1	0	0	0	16	17
Indiana	20	29	-28.9%	0	0	0	0	2	NM	19	27
Michigan	18	28	-35.0%	0	2	9	13	9	11	1	2
Ohio	14	2	528.5%	14	0	-1	NM	0	0	1	1
Wisconsin	4	5	-3.1%	1	2	0	0	0	0	3	3
West North Central	30	33	-10.5%	12	16	13	11	3	NM	3	4
Iowa	0	NM	NM	0	0	0	0	0	0	0	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	26	27	-5.1%	8	10	13	11	3	NM	2	3
Missouri	0	3	-88.5%	0	3	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	3	3	8.0%	3	3	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	337	345	-2.5%	0	0	180	189	14	13	142	144
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	242	238	1.5%	0	0	133	126	0	0	108	112
Georgia	11	10	9.4%	0	0	0	0	0	0	11	10
Maryland	24	17	41.9%	0	0	24	17	0	NM	0	0
North Carolina	40	49	-18.1%	0	0	21	30	0	0	20	20
South Carolina	4	2	57.3%	0	0	0	NM	0	0	3	2
Virginia	16	29	-45.6%	0	0	2	16	14	13	0	0
West Virginia	0	-1	-95.3%	0	0	0	-1	0	0	0	0
East South Central	6	8	-31.1%	4	6	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	4	6	-35.4%	4	6	0	0	0	0	0	0
Mississippi	0	NM	NM	0	0	0	0	0	0	0	NM
Tennessee	1	2	-4.3%	0	0	0	0	0	0	1	2
West South Central	107	103	4.7%	0	0	10	2	0	0	98	101
Arkansas	NM	1	NM	0	0	0	0	0	0	NM	1
Louisiana	50	51	-1.1%	0	0	0	0	0	0	50	51
Oklahoma	2	2	-1.2%	0	0	3	1	0	0	-1	NM
Texas	55	49	11.9%	0	0	7	NM	0	0	48	48
Mountain	60	49	21.2%	3	NM	28	31	0	0	28	18
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	5	4	33.2%	0	0	2	NM	0	0	3	NM
Idaho	6	5	1.9%	0	0	0	0	0	0	6	5
Montana	27	29	-9.1%	0	0	27	29	0	0	0	0
Nevada	3	NM	NM	3	NM	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	14	11	30.1%	0	0	0	NM	0	0	14	10
Wyoming	6	0	--	0	0	0	0	0	0	6	0
Pacific Contiguous	72	62	15.8%	0	NM	21	18	0	0	51	44
California	66	53	23.2%	0	NM	15	9	0	0	51	44
Oregon	3	4	-18.7%	0	NM	3	4	0	0	0	0
Washington	3	5	-40.4%	0	0	3	5	0	0	0	0
Pacific Noncontiguous	29	10	184.3%	12	NM	1	0	16	10	0	0
Alaska	0	NM	NM	0	NM	0	0	0	0	0	0
Hawaii	29	10	190.9%	13	0	1	0	16	10	0	0
U.S. Total	1,024	1,017	0.7%	46	26	519	543	79	76	380	372

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

Table 1.13.B. Utility Scale Facility Net Generation from Other Energy Sources

by State, by Sector, Year-to-Date through February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	288	312	-7.6%	0	0	253	281	11	14	24	17
Connecticut	81	98	-17.1%	0	0	81	98	0	0	0	0
Maine	67	58	13.9%	0	0	31	28	11	14	24	17
Massachusetts	132	147	-10.0%	0	0	132	147	0	0	0	0
New Hampshire	8	9	-5.4%	0	0	8	9	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	375	377	-0.6%	0	0	298	305	66	72	12	0
New Jersey	99	90	10.7%	0	0	64	65	24	25	12	0
New York	131	138	-5.0%	0	0	101	106	30	32	0	0
Pennsylvania	145	149	-3.2%	0	0	133	135	11	14	0	0
East North Central	148	165	-10.1%	28	8	14	29	22	24	84	104
Illinois	36	36	0.9%	0	0	-3	-1	0	0	39	37
Indiana	39	59	-33.4%	0	0	0	0	3	NM	36	56
Michigan	39	57	-31.4%	0	5	18	26	19	21	2	4
Ohio	26	5	463.4%	25	0	-1	3	0	0	1	2
Wisconsin	8	9	-9.9%	2	3	0	0	0	0	6	6
West North Central	68	72	-6.4%	29	36	25	23	5	5	8	8
Iowa	0	NM	NM	0	0	0	0	0	0	0	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	59	59	-0.9%	21	24	25	23	5	5	7	7
Missouri	1	5	-85.3%	1	5	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	7	7	11.2%	7	7	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	712	738	-3.5%	0	0	393	405	29	27	291	305
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	500	505	-1.1%	0	0	278	265	0	0	222	240
Georgia	21	19	12.7%	0	0	0	0	0	0	21	19
Maryland	50	42	18.3%	0	0	50	42	0	NM	0	0
North Carolina	79	106	-25.0%	0	0	38	63	0	0	41	43
South Carolina	8	5	59.3%	0	0	1	NM	0	0	7	4
Virginia	56	63	-10.9%	0	0	27	36	29	27	0	0
West Virginia	-1	-1	-9.6%	0	0	-1	-1	0	0	0	0
East South Central	8	14	-45.6%	4	10	0	0	0	0	4	4
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	4	10	-59.0%	4	10	0	0	0	0	0	0
Mississippi	1	NM	NM	0	0	0	0	0	0	1	NM
Tennessee	3	3	-8.3%	0	0	0	0	0	0	3	3
West South Central	217	217	-0.1%	0	0	19	3	0	0	199	215
Arkansas	1	1	-41.3%	0	0	0	0	0	0	1	1
Louisiana	99	107	-7.3%	0	0	0	0	0	0	99	107
Oklahoma	3	3	4.7%	0	0	5	1	0	0	-2	NM
Texas	114	106	7.7%	0	0	13	NM	0	0	100	104
Mountain	115	101	14.4%	6	NM	56	61	0	0	53	40
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	10	8	22.6%	0	0	3	2	0	0	7	6
Idaho	9	12	-24.6%	0	0	0	0	0	0	9	12
Montana	53	58	-8.0%	0	0	53	58	0	0	0	0
Nevada	6	NM	NM	6	NM	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	26	23	12.9%	0	0	0	NM	0	0	26	22
Wyoming	12	0	--	0	0	0	0	0	0	12	0
Pacific Contiguous	149	138	7.9%	0	NM	44	40	0	0	105	98
California	136	120	13.1%	0	NM	31	22	0	0	105	98
Oregon	6	8	-14.9%	0	NM	7	8	0	0	0	0
Washington	7	10	-36.4%	0	0	7	10	0	0	0	0
Pacific Noncontiguous	62	27	130.0%	29	NM	2	2	31	25	0	0
Alaska	-1	NM	NM	-1	NM	0	0	0	0	0	0
Hawaii	62	27	133.9%	29	0	2	2	31	25	0	0
U.S. Total	2,142	2,161	-0.9%	95	54	1,103	1,148	165	167	779	792

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

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	324	262	23.6%	23	26	298	232	3	NM	0	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	225	157	42.8%	0	0	225	157	0	0	0	0
Massachusetts	21	23	-7.9%	NM	6	NM	14	2	NM	0	NM
New Hampshire	37	49	-24.2%	0	0	37	49	0	0	0	0
Rhode Island	12	NM	NM	0	0	11	NM	1	NM	0	0
Vermont	28	31	-10.2%	NM	20	NM	11	0	0	0	0
Middle Atlantic	623	823	-24.3%	0	0	623	823	0	0	0	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	339	436	-22.3%	0	0	339	436	0	0	0	NM
Pennsylvania	283	385	-26.6%	0	0	283	385	0	0	0	0
East North Central	2,205	2,501	-11.8%	235	304	1,963	2,189	NM	NM	NM	NM
Illinois	1,099	1,144	-4.0%	NM	NM	1,097	1,143	NM	NM	0	0
Indiana	388	572	-32.1%	0	0	388	572	0	NM	0	0
Michigan	423	486	-13.0%	149	200	274	287	0	0	0	0
Ohio	167	139	19.7%	NM	NM	161	132	0	NM	NM	NM
Wisconsin	128	159	-19.6%	84	102	43	57	0	0	1	NM
West North Central	6,169	5,406	14.1%	2,007	1,897	4,159	3,506	NM	NM	0	0
Iowa	1,956	1,895	3.3%	1,298	1,190	658	704	1	NM	0	0
Kansas	1,428	1,303	9.6%	83	89	1,346	1,214	0	0	0	0
Minnesota	1,041	979	6.3%	231	254	807	722	NM	NM	0	0
Missouri	144	118	22.1%	0	0	144	118	0	0	0	0
Nebraska	501	309	62.3%	NM	18	481	291	0	0	0	0
North Dakota	823	552	49.0%	287	270	536	282	0	0	0	0
South Dakota	277	251	10.3%	89	76	188	175	0	0	0	0
South Atlantic	206	225	-8.8%	0	0	205	225	0	NM	0	0
Delaware	0	NM	NM	0	0	0	0	0	NM	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	44	61	-27.2%	0	0	44	61	0	0	0	0
North Carolina	43	0	--	0	0	43	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	118	164	-28.2%	0	0	118	164	0	0	0	0
East South Central	NM	4	NM	0	0	NM	4	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	NM	4	NM	0	0	NM	4	0	0	0	0
West South Central	7,941	6,885	15.3%	165	172	7,775	6,709	1	NM	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2,123	1,763	20.4%	139	147	1,984	1,616	0	0	0	0
Texas	5,818	5,122	13.6%	26	24	5,790	5,094	1	NM	0	0
Mountain	2,031	2,450	-17.1%	199	311	1,831	2,139	NM	NM	0	NM
Arizona	53	38	40.5%	0	0	53	38	0	0	0	0
Colorado	830	1,000	-17.0%	27	10	802	990	NM	NM	0	NM
Idaho	174	233	-25.3%	0	0	174	233	0	0	0	0
Montana	184	257	-28.6%	NM	28	164	230	0	0	0	0
Nevada	31	15	103.4%	0	0	31	15	0	0	0	0
New Mexico	329	327	0.7%	0	0	328	326	NM	NM	0	0
Utah	100	29	248.4%	0	0	100	29	0	0	0	0
Wyoming	331	551	-40.0%	152	274	179	278	0	0	0	0
Pacific Contiguous	2,118	1,595	32.8%	386	428	1,731	1,166	1	NM	0	NM
California	1,208	577	109.4%	38	13	1,169	564	1	NM	0	NM
Oregon	368	387	-4.9%	51	51	316	335	0	0	0	0
Washington	542	631	-14.1%	297	364	246	267	0	0	0	0
Pacific Noncontiguous	72	53	37.1%	NM	10	63	42	0	0	0	0
Alaska	NM	16	NM	NM	10	NM	NM	0	0	0	0
Hawaii	58	37	57.6%	0	0	58	37	0	0	0	0
U.S. Total	21,692	20,204	7.4%	3,024	3,148	18,650	17,036	10	13	NM	NM

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

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

by State, by Sector, Year-to-Date through February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	599	526	13.9%	43	52	550	467	6	NM	0	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	415	321	29.4%	0	0	415	321	0	0	0	0
Massachusetts	40	43	-7.5%	NM	12	NM	26	4	NM	0	NM
New Hampshire	66	96	-30.8%	0	0	66	96	0	0	0	0
Rhode Island	25	NM	NM	0	0	24	NM	1	NM	0	0
Vermont	51	62	-18.3%	33	40	NM	22	0	0	0	0
Middle Atlantic	1,128	1,710	-34.0%	0	0	1,127	1,710	0	0	0	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	617	914	-32.4%	0	0	617	913	0	0	0	NM
Pennsylvania	507	792	-36.0%	0	0	507	792	0	0	0	0
East North Central	4,116	5,250	-21.6%	433	613	3,670	4,623	NM	NM	NM	12
Illinois	2,046	2,412	-15.2%	NM	NM	2,043	2,409	NM	NM	0	0
Indiana	742	1,227	-39.6%	0	0	741	1,227	0	NM	0	0
Michigan	774	1,009	-23.3%	278	415	495	594	0	0	0	0
Ohio	323	299	8.1%	NM	NM	312	285	1	NM	NM	11
Wisconsin	231	302	-23.7%	152	193	78	108	0	0	1	NM
West North Central	11,722	10,321	13.6%	3,735	3,632	7,981	6,682	NM	NM	0	0
Iowa	3,601	3,634	-0.9%	2,394	2,260	1,206	1,373	1	NM	0	0
Kansas	2,847	2,365	20.4%	168	159	2,680	2,205	0	0	0	0
Minnesota	1,937	1,891	2.4%	428	487	1,504	1,398	NM	NM	0	0
Missouri	248	216	14.8%	0	0	248	216	0	0	0	0
Nebraska	959	618	55.1%	37	35	922	584	0	0	0	0
North Dakota	1,607	1,115	44.1%	538	539	1,069	576	0	0	0	0
South Dakota	522	482	8.4%	169	152	353	330	0	0	0	0
South Atlantic	383	449	-14.6%	0	0	383	448	1	NM	0	0
Delaware	1	NM	NM	0	0	0	0	1	NM	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	81	118	-31.0%	0	0	81	118	0	0	0	0
North Carolina	68	0	--	0	0	68	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	233	331	-29.5%	0	0	233	331	0	0	0	0
East South Central	NM	9	NM	0	0	NM	9	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	NM	9	NM	0	0	NM	9	0	0	0	0
West South Central	15,880	12,761	24.4%	322	299	15,556	12,455	3	NM	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	4,166	3,186	30.7%	270	251	3,896	2,935	0	0	0	0
Texas	11,715	9,575	22.3%	51	48	11,660	9,520	3	NM	0	0
Mountain	3,976	4,540	-12.4%	369	585	3,603	3,954	NM	NM	1	NM
Arizona	114	80	42.1%	0	0	114	80	0	0	0	0
Colorado	1,683	1,781	-5.5%	54	18	1,626	1,762	NM	NM	1	NM
Idaho	310	444	-30.2%	0	0	310	444	0	0	0	0
Montana	341	454	-24.9%	38	48	303	406	0	0	0	0
Nevada	67	36	83.1%	0	0	67	36	0	0	0	0
New Mexico	660	634	4.2%	0	0	660	633	NM	NM	0	0
Utah	198	68	188.9%	0	0	198	68	0	0	0	0
Wyoming	603	1,043	-42.2%	277	519	325	524	0	0	0	0
Pacific Contiguous	4,091	3,077	32.9%	665	746	3,424	2,330	1	NM	1	NM
California	2,543	1,298	95.8%	85	33	2,456	1,264	1	NM	1	NM
Oregon	611	708	-13.7%	78	96	533	613	0	0	0	0
Washington	937	1,070	-12.5%	502	617	435	453	0	0	0	0
Pacific Noncontiguous	143	91	57.1%	NM	20	126	71	0	0	0	0
Alaska	26	31	-16.2%	NM	20	NM	10	0	0	0	0
Hawaii	118	60	94.5%	0	0	118	60	0	0	0	0
U.S. Total	42,041	38,735	8.5%	5,584	5,948	36,423	32,749	22	24	NM	14

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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, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	567	631	-10.1%	51	60	407	465	12	8	98	98
Connecticut	56	69	-18.5%	0	0	56	69	0	0	0	0
Maine	237	269	-11.8%	0	0	134	165	6	6	98	98
Massachusetts	86	94	-8.9%	0	0	84	94	2	NM	0	0
New Hampshire	131	137	-3.8%	25	29	103	106	4	NM	0	0
Rhode Island	16	16	-0.5%	0	0	16	16	0	0	0	0
Vermont	40	46	-11.9%	26	31	14	NM	0	NM	0	0
Middle Atlantic	451	444	1.5%	0	0	343	340	39	41	69	64
New Jersey	77	75	3.9%	0	0	64	59	13	15	0	0
New York	177	173	2.8%	0	0	145	138	15	15	18	19
Pennsylvania	196	197	-0.5%	0	0	134	142	11	10	51	45
East North Central	420	450	-6.8%	46	52	246	254	16	16	112	128
Illinois	44	44	1.2%	2	NM	43	42	0	0	0	0
Indiana	35	34	3.2%	23	23	4	4	2	NM	6	5
Michigan	177	195	-9.4%	0	0	126	131	9	11	42	53
Ohio	58	61	-4.3%	NM	NM	38	38	1	NM	19	21
Wisconsin	105	117	-9.6%	20	27	35	38	4	3	45	48
West North Central	193	185	4.2%	36	41	89	88	11	12	58	44
Iowa	13	20	-33.1%	NM	NM	5	10	2	3	4	5
Kansas	5	6	-17.9%	0	0	5	5	0	0	NM	NM
Minnesota	151	136	11.5%	23	29	75	69	NM	NM	52	35
Missouri	14	13	12.2%	NM	NM	NM	4	6	5	0	NM
Nebraska	7	8	-4.3%	6	6	0	0	2	NM	0	0
North Dakota	NM	NM	NM	0	0	0	0	0	0	NM	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,564	1,525	2.5%	128	158	526	518	27	27	883	823
Delaware	6	6	4.2%	0	0	5	5	0	0	NM	NM
District of Columbia	4	0	--	0	0	4	0	0	0	0	0
Florida	413	376	9.8%	7	8	228	208	4	5	173	156
Georgia	382	373	2.3%	0	0	57	58	0	NM	325	314
Maryland	43	32	33.3%	0	0	31	23	2	NM	10	7
North Carolina	204	186	10.0%	0	0	97	98	6	5	102	83
South Carolina	218	195	12.0%	35	35	35	35	0	0	148	125
Virginia	294	358	-17.8%	86	116	69	91	16	14	123	137
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	487	508	-4.2%	7	7	29	29	0	0	451	473
Alabama	261	263	-0.6%	0	0	22	21	0	0	240	242
Kentucky	33	38	-13.0%	7	7	1	NM	0	0	25	31
Mississippi	115	129	-11.2%	0	0	NM	NM	0	0	114	128
Tennessee	78	78	-0.4%	0	0	6	6	0	0	72	73
West South Central	482	513	-6.2%	0	0	63	86	3	4	416	423
Arkansas	122	132	-8.0%	0	0	8	10	0	NM	114	122
Louisiana	215	210	2.2%	0	0	7	7	0	0	208	203
Oklahoma	24	25	-4.0%	0	0	NM	NM	0	0	23	24
Texas	121	146	-16.9%	0	0	47	69	3	3	71	74
Mountain	87	78	11.9%	NM	NM	54	48	2	NM	30	27
Arizona	19	16	17.7%	0	0	19	16	0	0	0	0
Colorado	13	8	58.4%	0	0	13	8	0	0	0	0
Idaho	44	42	4.3%	NM	NM	14	15	1	NM	28	25
Montana	2	NM	NM	0	0	0	0	0	0	2	NM
Nevada	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Mexico	1	NM	NM	0	0	1	NM	0	0	0	0
Utah	6	6	-2.4%	0	0	5	5	1	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	709	743	-4.7%	55	64	388	408	66	73	200	199
California	475	499	-4.8%	12	20	351	366	63	70	50	42
Oregon	76	79	-3.4%	5	5	29	32	2	NM	40	40
Washington	158	166	-4.9%	39	38	7	10	NM	NM	110	117
Pacific Noncontiguous	24	28	-11.7%	6	5	0	0	17	14	NM	9
Alaska	2	5	-66.0%	0	0	0	0	1	4	NM	NM
Hawaii	23	23	-1.1%	6	5	0	0	16	10	0	8
U.S. Total	4,984	5,107	-2.4%	330	388	2,143	2,235	194	195	2,317	2,289

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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 February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	1,146	1,321	-13.2%	103	125	807	977	25	18	211	201
Connecticut	117	147	-20.5%	0	0	117	147	0	0	0	0
Maine	482	544	-11.4%	0	0	258	329	13	13	211	201
Massachusetts	186	200	-7.0%	0	0	181	200	4	NM	0	0
New Hampshire	250	300	-16.6%	52	60	191	236	7	4	0	0
Rhode Island	34	35	-2.6%	0	0	34	35	0	0	0	0
Vermont	78	96	-18.7%	51	65	26	31	0	NM	0	0
Middle Atlantic	947	939	0.8%	0	0	720	719	83	89	144	131
New Jersey	166	160	4.0%	0	0	137	128	29	31	0	0
New York	365	365	0.0%	0	0	295	294	33	33	37	37
Pennsylvania	416	415	0.3%	0	0	288	297	22	24	107	94
East North Central	906	950	-4.6%	110	114	516	539	34	33	246	264
Illinois	95	94	0.8%	4	NM	91	91	0	0	0	0
Indiana	74	73	1.6%	50	50	8	9	4	3	12	11
Michigan	376	408	-7.7%	0	NM	262	276	20	22	95	110
Ohio	124	128	-3.3%	NM	NM	80	82	1	NM	41	44
Wisconsin	237	248	-4.3%	55	60	75	82	9	7	98	99
West North Central	392	383	2.4%	79	85	174	186	24	24	115	88
Iowa	29	43	-32.7%	5	5	10	21	5	7	8	10
Kansas	11	13	-16.2%	0	0	10	10	0	0	NM	3
Minnesota	306	280	9.2%	53	61	145	146	4	4	104	70
Missouri	29	27	8.2%	8	7	9	9	12	10	1	NM
Nebraska	16	16	-1.3%	13	13	0	0	3	3	0	0
North Dakota	NM	4	NM	0	0	0	0	0	0	NM	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,248	3,218	0.9%	288	326	1,107	1,077	56	56	1,797	1,759
Delaware	12	12	2.9%	0	0	10	10	0	0	NM	NM
District of Columbia	9	0	--	0	0	9	0	0	0	0	0
Florida	872	787	10.8%	15	12	489	434	9	9	360	332
Georgia	763	790	-3.5%	0	0	108	121	0	NM	654	667
Maryland	89	73	21.1%	0	0	64	56	4	5	21	13
North Carolina	417	382	9.2%	0	0	196	193	12	11	209	178
South Carolina	439	425	3.4%	71	70	63	75	0	0	305	280
Virginia	647	749	-13.6%	202	244	167	189	32	29	246	287
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	1,009	1,047	-3.6%	14	14	60	57	0	0	935	975
Alabama	537	536	0.3%	0	0	44	42	0	0	493	494
Kentucky	69	82	-15.9%	14	14	1	NM	0	0	53	66
Mississippi	243	264	-8.1%	0	0	NM	NM	0	0	241	262
Tennessee	161	165	-2.6%	0	0	12	13	0	0	148	153
West South Central	992	1,043	-4.9%	0	0	149	163	7	7	836	873
Arkansas	249	256	-2.8%	0	0	16	20	1	NM	232	236
Louisiana	421	449	-6.1%	0	0	15	15	0	0	406	433
Oklahoma	55	53	4.4%	0	0	NM	NM	0	0	53	50
Texas	268	286	-6.5%	0	0	116	126	6	7	145	153
Mountain	178	170	4.4%	NM	NM	110	104	4	3	62	61
Arizona	35	37	-5.5%	0	0	35	37	0	0	0	0
Colorado	27	17	61.4%	0	0	27	17	0	0	0	0
Idaho	93	93	0.1%	NM	NM	31	32	2	NM	58	57
Montana	3	4	-2.5%	0	0	0	0	0	0	3	4
Nevada	NM	4	NM	0	0	NM	4	0	0	0	0
New Mexico	3	3	2.2%	0	0	3	3	0	0	0	0
Utah	13	14	-4.7%	0	0	11	12	2	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,461	1,518	-3.7%	110	132	796	831	141	153	414	402
California	970	1,017	-4.6%	25	40	716	743	133	148	96	87
Oregon	166	165	0.2%	10	11	63	67	5	3	88	84
Washington	325	335	-3.0%	75	82	16	20	NM	3	231	230
Pacific Noncontiguous	45	62	-27.7%	7	9	0	0	37	34	NM	19
Alaska	5	9	-46.5%	0	0	0	0	4	8	NM	NM
Hawaii	40	53	-24.3%	7	9	0	0	33	26	0	17
U.S. Total	10,326	10,653	-3.1%	715	807	4,440	4,654	410	418	4,761	4,773

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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, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
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	363	374	-3.0%	21	23	342	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	7	8	-4.3%	0	0	7	8	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	313	320	-2.2%	0	0	313	320	0	0	0	0
New Mexico	1	NM	NM	0	0	1	NM	0	0	0	0
Utah	41	45	-8.7%	21	23	20	22	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	987	981	0.6%	61	67	926	914	0	0	0	0
California	967	962	0.6%	61	66	907	896	0	0	0	0
Oregon	20	19	2.5%	1	NM	19	18	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	20	17	16.3%	0	0	20	17	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	20	17	16.3%	0	0	20	17	0	0	0	0
U.S. Total	1,369	1,372	-0.2%	82	90	1,287	1,282	0	0	0	0

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

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

by State, by Sector, Year-to-Date through February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 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	765	778	-1.6%	45	46	721	731	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	16	16	-2.1%	0	0	16	16	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	660	669	-1.3%	0	0	660	669	0	0	0	0
New Mexico	2	3	-7.4%	0	0	2	3	0	0	0	0
Utah	87	90	-3.4%	45	46	42	44	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,103	2,029	3.6%	133	141	1,970	1,888	0	0	0	0
California	2,062	1,990	3.6%	132	138	1,930	1,852	0	0	0	0
Oregon	41	39	3.4%	1	NM	40	37	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	42	36	15.5%	0	0	42	36	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	42	36	15.5%	0	0	42	36	0	0	0	0
U.S. Total	2,910	2,843	2.3%	177	187	2,732	2,656	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, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	184	171	7.9%	48	65	136	106	4	NM	44	63	NM	NM	NM	NM	79	63	6	5	0	0	6	5	51	38
Connecticut	NM	20	NM	NM	NM	25	18	0	0	NM	NM	10	8	0	0	10	8	1	1	0	0	1	1	14	10
Maine	2	2	33.1%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Massachusetts	133	133	0.2%	39	56	94	77	NM	NM	37	54	NM	NM	NM	NM	62	51	5	4	0	0	5	4	27	21
New Hampshire	5	3	79.9%	0	0	5	3	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Rhode Island	NM	3	NM	NM	NM	2	1	0	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	1	0
Vermont	13	11	25.1%	6	6	7	5	NM	NM	3	5	3	2	0	0	3	2	0	0	0	0	0	0	4	3
Middle Atlantic	298	277	7.5%	70	96	227	180	5	9	56	73	131	122	8	14	123	108	NM	NM	NM	NM	12	11	92	62
New Jersey	190	188	0.9%	55	78	135	110	5	9	42	56	94	91	8	13	86	78	NM	NM	NM	NM	7	6	42	26
New York	81	62	30.3%	11	11	69	51	0	0	11	11	NM	NM	NM	NM	27	21	1	1	0	0	1	1	42	29
Pennsylvania	27	27	1.2%	4	7	23	20	0	0	3	6	NM	NM	NM	NM	10	9	NM	NM	NM	NM	4	4	9	7
East North Central	48	46	3.4%	30	32	18	14	9	5	21	27	NM	NM	NM	NM	11	10	NM	NM	0	NM	NM	NM	6	4
Illinois	6	7	-14.1%	3	5	3	2	0	NM	3	5	2	2	0	0	2	2	NM	0	0	0	NM	0	1	1
Indiana	19	21	-8.9%	18	20	1	1	7	3	11	17	1	0	0	0	1	0	NM	NM	0	0	NM	NM	1	0
Michigan	NM	3	NM	NM	NM	NM	3	NM	NM	0	0	2	2	0	0	2	2	NM	NM	0	0	NM	NM	1	1
Ohio	14	13	7.9%	6	6	8	6	NM	NM	6	5	NM	NM	NM	NM	6	5	NM	NM	0	NM	NM	0	2	1
Wisconsin	NM	2	NM	NM	NM	3	2	0	0	NM	NM	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	1
West North Central	55	20	172.9%	34	3	21	17	NM	0	33	3	12	NM	0	NM	12	10	0	0	0	0	0	0	9	7
Iowa	NM	3	NM	NM	0	4	3	NM	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	1	1
Kansas	1	1	20.5%	0	NM	1	1	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Minnesota	33	3	NM	30	NM	3	2	NM	0	30	NM	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Missouri	16	13	18.4%	3	NM	13	11	0	0	3	NM	7	NM	0	NM	7	6	0	0	0	0	0	0	6	5
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	0
North Dakota	0	0	6.3%	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	606	437	38.7%	479	347	127	90	89	31	383	305	61	68	6	11	55	57	16	3	0	0	16	3	57	30
Delaware	11	12	-1.2%	2	5	9	7	NM	NM	NM	4	NM	NM	NM	NM	5	5	0	0	0	0	0	0	3	2
District of Columbia	5	3	71.3%	0	0	5	3	0	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	1	1
Florida	68	29	133.6%	49	12	19	17	45	5	4	6	7	NM	0	NM	7	9	1	0	0	0	1	0	11	8
Georgia	NM	57	NM	124	45	NM	12	17	5	107	39	NM	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM	NM	0
Maryland	69	54	28.5%	15	18	54	36	NM	NM	14	17	NM	NM	NM	NM	24	19	3	2	0	0	3	2	28	15
North Carolina	283	279	1.5%	270	268	14	11	20	19	244	239	16	18	6	10	10	8	0	0	0	0	0	0	4	2
South Carolina	NM	1	NM	NM	NM	7	1	0	0	NM	NM	1	0	0	0	1	0	NM	0	0	0	NM	0	5	1
Virginia	22	3	661.9%	17	0	5	3	7	0	10	0	2	1	0	0	2	1	NM	0	0	0	NM	0	3	2
West Virginia	0	0	27.1%	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	23	13	81.9%	17	7	6	6	1	0	16	7	NM	NM	NM	NM	6	6	NM	0	0	0	NM	0	1	0
Alabama	NM	0	NM	9	0	NM	0	0	0	9	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	NM	0
Kentucky	2	1	125.4%	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	NM	0	0	0	NM	0	0	0
Tennessee	11	11	-4.2%	7	7	4	4	0	0	6	7	NM	NM	NM	NM	4	4	NM	0	0	0	NM	0	0	0
West South Central	124	92	35.4%	77	57	48	35	NM	0	76	57	12	NM	0	NM	12	10	NM	0	0	0	NM	0	36	24
Arkansas	2	3	-14.9%	2	NM	1	0	NM	0	1	NM	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Louisiana	14	13	12.1%	0	0	14	13	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	13	12
Oklahoma	2	1	138.8%	0	0	2	0	0	0	0	0	1	0	0	0	1	0	NM	0	0	0	NM	0	NM	0
Texas	106	76	39.9%	75	55	32	21	0	0	75	55	10	NM	0	NM	10	9	0	0	0	0	0	0	21	12
Mountain	824	688	19.9%	622	500	202	187	47	62	570	429	69	76	6	9	63	67	12	NM	0	NM	12	14	127	106
Arizona	336	345	-2.4%	217	230	119	115	32	40	184	188	NM	NM	NM	NM	38	39	10	12	0	0	10	12	71	64
Colorado	81	62	30.1%	47	31	33	31	0	0	47	30	NM	NM	NM	NM	14	14	0	0	0	0	0	0	19	17
Idaho	11	0	NM	10	0	1	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Montana	1	1	30.6%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Nevada	202	179	13.2%	183	156	20	22	2	NM	177	147	5	12	4	6	1	6	2	NM	0	NM	2	2	17	15
New Mexico	73	67	9.8%	59	55	14	12	12	19	47	36	6	6	0	0	6	6	0	0	0	0	0	0	8	6
Utah	120	35	246.7%	106	28	14	7	0	0	106	28	3	2	0	0	3	2	0	0	0	0	0	0	10	4
Wyoming	0	0	23.7%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Pacific Contiguous	1,641	1,589	3.2%	1,044	1,086	596	503	25	40	1,012	1,035	147	130	6	10	141	120	NM	NM	NM	NM	91	74	364	309
California	1,615	1,576	2.5%	1,033	1,083	582	493	25	40	1,001	1,032	144	127	6	10	138	117	NM	NM	NM	NM	91	74	354	302
Oregon	20	9	114.1%	12	4	8	6	NM	NM	11	3	2	2	0	0	2	2	0	0	0	0	0	0	6	3
Washington	NM	5	NM	0	0	NM	5	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	NM	4
Pacific Noncontiguous	71	58	23.0%	5	7	66	51	3	4	NM	3	24	17	0	0	24	17	0	0	0	0	0	0	42	34
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	71	58	23.0%	5	7	66	51	3	4	NM	3	24	17	0	0	24	17	0	0	0	0	0	0	42	34
U.S. Total	3,875	3,391	14.3%	2,426	2,202	1,449	1,189	184	153	2,214	2,001	553	512	27	45	526	468	NM	111	NM	3	139	108	784	614

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
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-861M, 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 February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	336	288	16.7%	88	94	248	195	7	NM	81	91	147	117	NM	NM	146	117	12	9	0	0	12	9	90	68
Connecticut	49	37	33.6%	4	NM	45	34	0	0	4	NM	19	15	0	0	19	15	3	2	0	0	3	2	24	18
Maine	5	3	34.5%	0	0	5	3	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Massachusetts	243	221	10.4%	71	81	173	140	NM	NM	69	78	116	95	NM	NM	115	94	9	7	0	0	9	7	49	38
New Hampshire	10	6	79.0%	0	0	10	6	0	0	0	0	3	2	0	0	3	2	1	0	0	0	1	0	6	4
Rhode Island	6	5	15.8%	NM	NM	4	2	0	0	NM	NM	2	2	0	0	2	2	0	0	0	0	0	0	2	1
Vermont	24	17	37.4%	12	8	12	9	5	NM	6	8	5	3	0	0	5	3	0	0	0	0	0	0	7	6
Middle Atlantic	532	477	11.5%	126	143	406	334	9	13	101	109	239	219	15	20	224	199	24	22	NM	NM	23	21	159	114
New Jersey	341	320	6.8%	101	115	241	204	9	13	77	83	171	163	14	19	157	145	14	12	NM	NM	13	11	70	48
New York	142	111	27.3%	19	19	122	92	0	0	19	18	49	39	NM	NM	48	38	2	2	0	0	2	2	72	52
Pennsylvania	49	46	5.8%	6	9	43	37	0	0	5	8	19	17	NM	NM	18	16	9	9	NM	NM	8	8	16	13
East North Central	84	73	16.3%	53	48	31	24	15	8	37	40	20	18	NM	NM	20	17	2	1	0	NM	2	1	10	7
Illinois	10	11	-6.3%	5	7	5	4	0	NM	5	6	3	3	0	0	3	3	0	0	0	0	0	0	2	1
Indiana	35	32	9.9%	33	31	2	1	12	5	21	26	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Michigan	8	5	42.2%	NM	NM	6	4	NM	NM	0	0	4	3	0	0	4	3	0	0	0	0	0	0	2	1
Ohio	25	21	20.2%	12	9	13	11	NM	NM	10	7	10	9	NM	NM	10	9	1	1	0	NM	1	0	3	2
Wisconsin	6	4	78.8%	NM	NM	5	3	0	0	NM	NM	2	2	0	0	2	2	1	0	0	0	1	0	2	1
West North Central	93	36	157.6%	55	5	38	31	NM	0	54	5	21	18	0	NM	21	18	1	0	0	0	1	0	17	13
Iowa	8	6	33.4%	NM	0	8	6	NM	0	0	0	5	4	0	0	5	4	0	0	0	0	0	0	2	2
Kansas	2	1	19.7%	0	NM	2	1	0	0	0	NM	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Minnesota	53	4	NM	48	NM	5	3	NM	0	48	NM	2	2	0	0	2	2	0	0	0	0	0	0	2	2
Missouri	28	24	18.7%	5	NM	23	20	0	0	5	NM	13	12	0	NM	13	11	0	0	0	0	0	0	11	9
Nebraska	2	0	512.0%	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	0	0	6.3%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	0	0	237.3%	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	1,117	726	53.8%	884	558	233	168	172	55	700	486	126	125	12	17	114	108	19	5	0	0	19	5	99	56
Delaware	21	20	4.9%	5	7	16	13	NM	NM	NM	6	10	9	NM	NM	10	9	1	1	0	0	1	1	6	4
District of Columbia	9	5	75.4%	0	0	9	5	0	0	0	0	7	4	0	0	7	4	0	0	0	0	0	0	3	1
Florida	135	52	159.8%	95	19	40	33	88	9	6	9	17	18	0	NM	17	18	1	1	0	0	1	1	22	15
Georgia	260	97	169.5%	233	73	27	23	32	9	201	64	13	23	NM	NM	13	23	12	0	0	0	12	0	1	1
Maryland	122	93	31.8%	27	28	96	65	NM	NM	25	26	45	37	NM	NM	44	36	5	3	0	0	5	3	46	26
North Carolina	515	451	14.0%	490	431	25	21	37	34	442	382	29	31	11	15	18	16	0	0	0	0	0	0	7	4
South Carolina	14	2	517.0%	NM	NM	11	2	0	0	NM	NM	2	0	0	0	2	0	0	0	0	0	0	0	9	1
Virginia	39	5	641.5%	31	0	8	5	13	0	18	0	4	2	0	0	4	2	0	0	0	0	0	0	5	3
West Virginia	1	1	26.4%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
East South Central	43	21	104.2%	32	10	12	11	2	0	30	10	11	11	NM	NM	11	11	0	0	0	0	0	0	1	1
Alabama	18	0	NM	17	0	1	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kentucky	4	2	101.1%	2	0	2	2	2	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	1	0
Mississippi	1	1	133.4%	NM	0	1	1	0	0	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Tennessee	20	18	11.7%	12	10	8	8	0	0	12	10	8	8	NM	NM	8	8	0	0	0	0	0	0	0	0
West South Central	237	166	42.9%	145	100	92	66	NM	1	144	99	24	20	0	NM	23	20	0	0	0	0	0	0	69	46
Arkansas	4	4	-5.3%	3	NM	1	1	NM	0	3	NM	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Louisiana	27	24	13.5%	0	0	27	24	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	26	22
Oklahoma	3	1	80.6%	1	1	2	1	1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0
Texas	203	136	49.2%	141	96	62	40	0	0	141	96	21	18	0	NM	20	18	0	0	0	0	0	0	41	23
Mountain	1,567	1,210	29.6%	1,170	852	397	358	81	104	1,079	733	138	144	10	14	127	130	26	29	0	NM	26	29	244	199
Arizona	640	622	2.8%	407	403	233	219	54	69	351	331	76	77	NM	NM	74	75	21	25	0	0	21	25	137	120
Colorado	151	110	36.7%	87	51	63	59	0	0	86	49	28	29	NM	NM	27	27	0	0	0	0	0	0	36	32
Idaho	20	1	NM	19	0	1	1	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Montana	1	1	30.7%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nevada	395	301	31.3%	352	260	43	41	4	NM	341	245	14	22	7	10	7	12	3	3	0	NM	3	3	32	26
New Mexico	137	115	18.8%	109	92	28	23	23	31	86	61	12	11	0	0	12	11	0	0	0	0	0	0	16	12
Utah	223	59	278.0%	196	46	27	12	0	0	196	46	6	4	0	0	6	4	1	1	0	0	1	1	20	8
Wyoming	0	0	23.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Contiguous	3,130	2,733	14.5%	1,978	1,811	1,152	922	47	63	1,919	1,731	287	238	11	15	276	223	178	143	NM	NM	177	141	699	558
California	3,087	2,711	13.8%	1,957	1,806	1,130	906	46	62	1,898	1,727	282	233	11	15	271	218	177	142	NM	NM	176	141	682	547
Oregon	33	15	129.1%	21	5	13	9	NM	NM	20	4	4	4	0	0	4	4	1	0	0	0	1	0	8	5
Washington	10	7	29.3%	0	0	10	7	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	8	6
Pacific Noncontiguous	134	111	20.4%	11	10	123	101	6	6	NM	4	44	34	0	0	44	34	0	0	0	0	0	0	79	66
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	134	111	20.4%	11	10	123	101	6	6	NM	4	44	34	0	0	44	34	0	0	0	0	0	0	79	66
U.S. Total	7,273	5,841	24.5%	4,542	3,631	2,731	2,210	341	252	4,148	3,308	1,056	945	50	68	1,006	877	262	210	NM	NM	259	207	1,466	1,127

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
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-861M, 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, February 2017 and 2016 (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	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
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	6	-101.5%	0	6	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	6	-101.5%	0	6	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	39	54	-28.5%	0	0	39	54	0	0	0	0
Arizona	35	37	-6.6%	0	0	35	37	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	4	17	-77.1%	0	0	4	17	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	97	181	-46.6%	0	0	97	181	0	0	0	0
California	97	181	-46.6%	0	0	97	181	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	136	241	-43.7%	0	6	136	236	0	0	0	0

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

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

by State, by Sector, Year-to-Date through February 2017 and 2016 (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	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 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	8	-97.9%	0	8	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	8	-97.9%	0	8	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	64	91	-29.5%	0	0	64	91	0	0	0	0
Arizona	57	71	-18.5%	0	0	57	71	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	6	20	-68.0%	0	0	6	20	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	162	228	-29.3%	0	0	162	228	0	0	0	0
California	162	228	-29.3%	0	0	162	228	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	226	327	-31.0%	0	8	225	319	0	0	0	0

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

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2007-February 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	678,005	498,170	176,311	148	3,376
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	39,857	31,044	8,495	14	304
April	38,989	28,663	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 2017					
January	63,542	46,896	16,329	16	300
February	48,155	35,793	12,083	12	267
Year to Date					
2015	138,520	98,602	39,225	37	655
2016	112,615	83,219	28,753	29	615
2017	111,697	82,689	28,412	28	567
Rolling 12 Months Ending in February					
2016	713,690	524,123	185,455	154	3,958
2017	677,086	497,640	175,970	147	3,329

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 and 2017 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, 2007-February 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	14,264	1,061	1,733	544	10,926
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	1,376	108	142	61	1,065
April	1,049	89	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 2017					
January	1,285	111	140	46	987
February	1,075	97	122	38	818
Year to Date					
2015	3,153	195	362	156	2,440
2016	2,894	193	292	125	2,283
2017	2,360	208	262	84	1,805
Rolling 12 Months Ending in February					
2016	16,372	1,030	1,910	604	12,829
2017	13,730	1,077	1,702	504	10,447

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 and 2017 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, 2007-February 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	692,269	499,231	178,044	692	14,302
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	41,233	31,151	8,636	75	1,370
April	40,039	28,752	10,232	49	1,006
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 2017					
January	64,827	47,008	16,469	62	1,288
February	49,230	35,890	12,204	50	1,085
Year to Date					
2015	141,673	98,797	39,587	193	3,095
2016	115,509	83,411	29,046	154	2,898
2017	114,056	82,898	28,674	112	2,372
Rolling 12 Months Ending in February					
2016	730,062	525,152	187,365	758	16,787
2017	690,816	498,717	177,672	651	13,776

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 and 2017 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, 2007-February 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	21,225	15,668	4,841	132	584
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	1,367	1,045	284	NM	31
April	1,319	1,016	262	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 2017					
January	1,981	1,492	411	29	48
February	1,558	1,180	322	15	41
Year to Date					
2015	11,882	5,608	5,980	126	167
2016	4,441	3,086	1,234	26	95
2017	3,540	2,673	733	45	89
Rolling 12 Months Ending in February					
2016	21,484	16,040	4,727	149	569
2017	20,324	15,254	4,341	NM	578

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 and 2017 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, 2007-February 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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 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 2017					
January	251	4	100	30	117
February	175	4	70	24	77
Year to Date					
2015	919	53	273	159	434
2016	468	11	152	32	272
2017	426	8	170	54	194
Rolling 12 Months Ending in February					
2016	2,690	20	1,034	155	1,481
2017	2,493	16	1,032	NM	1,296

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 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-February 2017 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	23,760	15,687	5,855	258	1,959
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	373	NM	118
April	1,499	1,017	341	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 2017					
January	2,233	1,496	512	59	165
February	1,733	1,185	392	39	117
Year to Date					
2015	12,801	5,662	6,254	285	601
2016	4,908	3,098	1,386	58	367
2017	3,966	2,681	903	99	283
Rolling 12 Months Ending in February					
2016	24,175	16,060	5,761	304	2,049
2017	22,817	15,271	5,373	NM	1,875

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 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2007-February 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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 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 2017					
January	362	301	44	0	16
February	266	217	36	0	13
Year to Date					
2015	815	644	113	1	58
2016	670	573	56	1	40
2017	628	519	80	0	29
Rolling 12 Months Ending in February					
2016	3,899	3,049	612	2	235
2017	4,233	3,376	623	1	233

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.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2007-February 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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 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 2017					
January	74	0	9	2	63
February	66	0	9	1	56
Year to Date					
2015	208	1	19	4	184
2016	166	1	19	4	142
2017	140	0	18	3	119
Rolling 12 Months Ending in February					
2016	1,102	9	110	16	968
2017	990	2	103	8	877

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, 2007-February 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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 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 2017					
January	436	301	53	2	79
February	332	218	45	1	69
Year to Date					
2015	1,023	645	131	5	242
2016	836	574	75	5	182
2017	768	519	97	4	148
Rolling 12 Months Ending in February					
2016	5,001	3,058	722	18	1,203
2017	5,223	3,378	727	9	1,110

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2007-February 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	10,400,189	5,045,514	4,642,081	68,639	643,955
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	775,091	379,524	337,795	5,413	52,359
April	753,775	364,603	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 2017					
January	677,545	327,650	287,333	6,139	56,424
February	584,745	280,771	248,451	5,433	50,090
Year to Date					
2015	1,421,374	678,702	632,041	9,897	100,734
2016	1,520,435	743,200	662,816	10,877	103,542
2017	1,262,290	608,421	535,784	11,572	106,513
Rolling 12 Months Ending in February					
2016	10,115,636	4,809,754	4,607,458	71,072	627,353
2017	10,142,045	4,910,735	4,515,049	69,335	646,926

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.
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Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2007-February 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	956,923	11,227	284,704	47,946	613,046
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	80,136	959	24,327	4,160	50,691
April	76,781	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 2017					
January	86,570	1,164	22,966	5,166	57,274
February	77,792	872	20,183	4,382	52,356
Year to Date					
2015	152,080	1,197	47,727	8,157	94,999
2016	163,368	2,231	49,050	8,771	103,317
2017	164,362	2,036	43,148	9,548	109,630
Rolling 12 Months Ending in February					
2016	946,387	9,094	284,694	46,902	605,697
2017	957,917	11,032	278,803	48,723	619,359

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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Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-February 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	11,357,113	5,056,741	4,926,785	116,586	1,257,001
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	830,556	365,304	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 2017					
January	764,115	328,814	310,298	11,305	113,697
February	662,537	281,643	268,634	9,815	102,446
Year to Date					
2015	1,573,454	679,898	679,769	18,054	195,733
2016	1,683,803	745,431	711,866	19,648	206,859
2017	1,426,652	610,457	578,932	21,120	216,143
Rolling 12 Months Ending in February					
2016	11,062,023	4,818,847	4,892,152	117,974	1,233,050
2017	11,099,961	4,921,767	4,793,851	118,057	1,266,285

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 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2007-February 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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 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 2017					
January	23,956	2,224	19,472	1,824	436
February	21,544	2,079	17,540	1,515	410
Year to Date					
2015	42,248	4,060	33,525	3,974	688
2016	55,102	5,041	44,520	4,665	877
2017	45,500	4,303	37,012	3,339	846
Rolling 12 Months Ending in February					
2016	295,384	26,238	238,375	25,940	4,831
2017	319,915	29,767	260,925	24,013	5,211

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.
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Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2007-February 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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 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 2017					
January	243	0	159	46	38
February	206	0	134	40	32
Year to Date					
2015	207	0	74	79	53
2016	806	1	452	187	166
2017	450	0	293	86	70
Rolling 12 Months Ending in February					
2016	2,121	3	1,021	623	474
2017	3,876	5	2,222	867	783

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, 2007-February 2017 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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 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 2017					
January	24,199	2,224	19,631	1,870	474
February	21,750	2,079	17,674	1,555	442
Year to Date					
2015	42,455	4,060	33,600	4,053	741
2016	55,908	5,042	44,971	4,852	1,043
2017	45,949	4,303	37,305	3,425	917
Rolling 12 Months Ending in February					
2016	297,505	26,241	239,396	26,563	5,305
2017	323,791	29,771	263,146	24,879	5,994

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.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2007-February 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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 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 2017					
January	1,437	35	1,207	195	0
February	1,244	19	1,045	180	0
Year to Date					
2015	2,547	55	2,134	357	1
2016	2,556	61	2,153	340	2
2017	2,680	54	2,252	375	0
Rolling 12 Months Ending in February					
2016	16,639	458	13,815	2,357	9
2017	16,191	456	13,455	2,275	6

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.
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Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2007-February 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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 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 2017					
January	197	0	55	122	20
February	167	0	49	105	12
Year to Date					
2015	327	0	115	177	35
2016	333	0	134	173	26
2017	364	0	104	228	32
Rolling 12 Months Ending in February					
2016	1,992	0	675	1,123	194
2017	2,005	0	628	1,204	173

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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Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2007-February 2017 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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 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 2017					
January	1,634	35	1,262	317	20
February	1,410	19	1,094	286	12
Year to Date					
2015	2,874	55	2,249	535	36
2016	2,889	61	2,287	513	28
2017	3,044	54	2,356	603	32
Rolling 12 Months Ending in February					
2016	18,631	458	14,490	3,480	203
2017	18,196	456	14,083	3,479	179

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 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2007-February 2017 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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 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 2017					
January	32,399	3,603	12,806	78	15,912
February	30,715	3,162	12,417	66	15,069
Year to Date					
2015	69,498	7,777	29,835	104	31,782
2016	67,033	8,242	27,838	121	30,832
2017	63,114	6,766	25,223	144	30,981
Rolling 12 Months Ending in February					
2016	404,185	44,384	169,391	520	189,890
2017	377,699	41,630	150,655	696	184,718

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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Table 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2007-February 2017 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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 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 2017					
January	81,090	807	1,750	503	78,031
February	73,357	846	2,030	413	70,067
Year to Date					
2015	159,933	1,810	3,631	759	153,732
2016	157,744	1,757	3,501	883	151,603
2017	154,447	1,653	3,779	917	148,098
Rolling 12 Months Ending in February					
2016	941,773	9,298	19,070	3,838	909,568
2017	921,488	8,365	17,295	4,355	891,473

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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Table 2.8.A. Consumption of Coal for Electricity Generation by State, by Sector, February 2017 and February 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	195	170	15.0%	21	28	173	141	0	0	NM	1
Connecticut	0	10	-100.0%	0	0	0	10	0	0	0	0
Maine	2	1	54.0%	0	0	2	1	0	0	NM	0
Massachusetts	172	130	32.0%	0	0	172	130	0	0	0	NM
New Hampshire	21	28	-26.0%	21	28	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	1,720	2,425	-29.0%	0	0	1,705	2,406	0	0	14	20
New Jersey	36	50	-27.0%	0	0	36	50	0	0	0	0
New York	NM	110	NM	0	0	NM	105	0	0	6	5
Pennsylvania	1,642	2,265	-27.0%	0	0	1,634	2,251	0	0	9	14
East North Central	10,960	10,958	0.0%	6,793	6,894	4,102	3,988	1	4	64	72
Illinois	2,373	2,437	-2.6%	211	131	2,113	2,258	1	1	48	46
Indiana	2,725	2,889	-5.7%	2,605	2,656	120	232	0	1	0	0
Michigan	1,787	1,959	-8.8%	1,762	1,930	21	21	0	2	4	7
Ohio	2,331	2,237	4.2%	482	754	1,848	1,478	0	0	1	5
Wisconsin	1,744	1,435	21.0%	1,733	1,422	0	0	0	0	10	13
West North Central	8,803	9,250	-4.8%	8,671	9,122	0	1	5	5	126	122
Iowa	738	1,125	-34.0%	680	1,060	0	0	3	3	56	63
Kansas	963	1,050	-8.3%	963	1,050	0	0	0	0	0	0
Minnesota	1,135	1,104	2.8%	1,104	1,080	0	0	1	NM	30	23
Missouri	2,915	2,978	-2.1%	2,913	2,975	0	1	2	2	0	NM
Nebraska	1,065	1,036	2.8%	1,030	1,007	0	0	0	0	35	29
North Dakota	1,890	1,835	3.0%	1,885	1,829	0	0	0	0	5	6
South Dakota	97	121	-20.0%	97	121	0	0	0	0	0	0
South Atlantic	5,613	8,187	-31.0%	5,032	7,103	564	1,057	2	2	15	25
Delaware	7	40	-81.0%	0	0	7	40	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,207	1,046	15.0%	1,204	1,043	0	0	0	0	3	3
Georgia	723	1,426	-49.0%	718	1,421	0	0	0	0	4	4
Maryland	214	510	-58.0%	0	0	212	508	0	0	2	1
North Carolina	617	1,082	-43.0%	608	1,073	5	NM	1	2	3	3
South Carolina	474	745	-36.0%	474	741	0	0	0	0	1	4
Virginia	289	732	-61.0%	275	701	10	26	1	NM	3	5
West Virginia	2,081	2,607	-20.0%	1,752	2,124	329	479	0	0	0	4
East South Central	4,534	5,352	-15.0%	4,335	5,032	187	303	0	0	13	18
Alabama	1,297	1,182	9.7%	1,295	1,180	0	0	0	0	2	2
Kentucky	2,249	2,714	-17.0%	2,249	2,714	0	0	0	0	0	0
Mississippi	222	440	-50.0%	36	137	187	303	0	0	0	0
Tennessee	766	1,016	-25.0%	755	1,001	0	0	0	0	11	16
West South Central	8,604	7,235	19.0%	4,419	3,481	4,172	3,740	0	0	13	14
Arkansas	1,104	949	16.0%	927	748	176	200	0	0	1	1
Louisiana	715	651	9.8%	506	506	209	145	0	0	0	0
Oklahoma	817	829	-1.4%	753	718	52	99	0	0	12	13
Texas	5,968	4,807	24.0%	2,233	1,510	3,735	3,297	0	0	0	0
Mountain	7,320	6,860	6.7%	6,394	5,952	911	891	0	0	14	17
Arizona	1,338	1,084	23.0%	1,338	1,084	0	0	0	0	0	0
Colorado	1,368	1,211	13.0%	1,367	1,209	0	NM	0	0	1	NM
Idaho	NM	1	NM	0	0	0	0	0	0	NM	1
Montana	820	802	2.3%	23	NM	796	785	0	0	1	NM
Nevada	100	89	11.0%	62	52	37	37	0	0	0	0
New Mexico	838	672	25.0%	838	672	0	0	0	0	0	0
Utah	918	979	-6.2%	884	952	35	NM	0	0	0	0
Wyoming	1,936	2,021	-4.2%	1,881	1,967	43	NM	0	0	12	15
Pacific Contiguous	326	7	NM	111	0	208	0	0	0	6	7
California	6	6	-4.9%	0	0	0	0	0	0	6	6
Oregon	111	0	--	111	0	0	0	0	0	0	0
Washington	209	1	NM	0	0	208	0	0	0	1	1
Pacific Noncontiguous	82	122	-33.0%	NM	40	61	78	4	4	0	NM
Alaska	33	62	-47.0%	NM	40	NM	18	4	4	0	0
Hawaii	49	60	-19.0%	0	0	49	60	0	0	0	NM
U.S. Total	48,155	50,567	-4.8%	35,793	37,652	12,083	12,604	12	15	267	296

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

Table 2.8.B. Consumption of Coal for Electricity Generation by State, by Sector, Year-to-Date through February 2017 and February 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	356	415	-14.0%	40	65	315	349	0	0	NM	1
Connecticut	26	38	-33.0%	0	0	26	38	0	0	0	0
Maine	4	3	32.0%	0	0	3	3	0	0	NM	1
Massachusetts	287	308	-7.1%	0	0	287	308	0	0	0	1
New Hampshire	40	65	-39.0%	40	65	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	3,953	5,391	-27.0%	0	0	3,921	5,351	0	0	32	41
New Jersey	90	104	-14.0%	0	0	90	104	0	0	0	0
New York	109	201	-46.0%	0	0	NM	190	0	0	11	11
Pennsylvania	3,754	5,086	-26.0%	0	0	3,733	5,056	0	0	20	30
East North Central	24,638	24,690	-0.2%	15,022	14,989	9,475	9,544	4	6	138	150
Illinois	5,811	5,867	-1.0%	399	289	5,304	5,479	3	3	104	97
Indiana	6,306	6,191	1.9%	6,027	5,712	279	477	1	2	0	0
Michigan	3,971	4,405	-9.9%	3,917	4,347	44	39	0	2	9	17
Ohio	4,810	4,952	-2.9%	961	1,392	3,847	3,548	0	0	2	11
Wisconsin	3,740	3,274	14.0%	3,718	3,249	0	0	0	0	23	26
West North Central	20,483	20,763	-1.4%	20,211	20,502	0	2	12	10	259	250
Iowa	2,464	2,601	-5.3%	2,345	2,468	0	0	5	5	114	128
Kansas	2,303	2,386	-3.5%	2,303	2,386	0	0	0	0	0	0
Minnesota	2,628	2,538	3.6%	2,560	2,488	0	0	4	NM	64	48
Missouri	6,634	6,569	1.0%	6,631	6,562	0	2	3	3	0	2
Nebraska	2,345	2,401	-2.3%	2,276	2,341	0	0	0	0	69	59
North Dakota	3,869	3,991	-3.0%	3,857	3,978	0	0	0	0	12	13
South Dakota	239	278	-14.0%	239	278	0	0	0	0	0	0
South Atlantic	13,984	17,157	-18.0%	12,388	14,881	1,556	2,217	5	5	36	54
Delaware	16	99	-84.0%	0	0	16	99	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,637	2,191	20.0%	2,631	2,184	0	0	0	0	6	7
Georgia	2,040	3,000	-32.0%	2,030	2,991	0	0	0	0	10	8
Maryland	543	983	-45.0%	0	0	539	980	0	0	4	3
North Carolina	1,776	2,581	-31.0%	1,755	2,563	12	NM	3	4	6	7
South Carolina	1,203	1,503	-20.0%	1,202	1,492	0	0	0	0	2	10
Virginia	946	1,396	-32.0%	901	1,324	35	60	2	NM	8	10
West Virginia	4,824	5,404	-11.0%	3,869	4,326	954	1,070	0	0	0	8
East South Central	10,565	11,434	-7.6%	10,168	10,854	369	544	0	0	28	37
Alabama	2,636	2,460	7.1%	2,632	2,456	0	0	0	0	4	4
Kentucky	5,239	5,795	-9.6%	5,239	5,795	0	0	0	0	0	0
Mississippi	594	834	-29.0%	225	291	369	544	0	0	0	0
Tennessee	2,096	2,345	-11.0%	2,072	2,313	0	0	0	0	24	33
West South Central	20,426	16,590	23.0%	10,251	8,154	10,147	8,405	0	0	29	31
Arkansas	2,915	2,074	41.0%	2,586	1,648	327	422	0	0	2	3
Louisiana	1,673	1,415	18.0%	1,099	1,035	574	379	0	0	0	0
Oklahoma	1,764	1,879	-6.1%	1,605	1,624	133	227	0	0	26	28
Texas	14,074	11,222	25.0%	4,961	3,847	9,113	7,376	0	0	0	0
Mountain	16,242	15,483	4.9%	14,237	13,517	1,973	1,930	0	0	32	36
Arizona	2,885	2,562	13.0%	2,885	2,562	0	0	0	0	0	0
Colorado	2,959	2,741	8.0%	2,957	2,738	0	3	0	0	2	0
Idaho	2	3	-19.0%	0	0	0	0	0	0	2	3
Montana	1,779	1,738	2.3%	50	NM	1,727	1,701	0	0	2	NM
Nevada	213	176	21.0%	132	97	82	79	0	0	0	0
New Mexico	1,944	1,667	17.0%	1,944	1,667	0	0	0	0	0	0
Utah	2,141	2,215	-3.3%	2,067	2,152	74	63	0	0	0	0
Wyoming	4,320	4,382	-1.4%	4,203	4,265	90	85	0	0	26	32
Pacific Contiguous	893	454	97.0%	334	185	546	255	0	0	14	14
California	12	13	-4.9%	0	0	0	0	0	0	12	13
Oregon	334	185	81.0%	334	185	0	0	0	0	0	0
Washington	547	256	113.0%	0	0	546	255	0	0	2	2
Pacific Noncontiguous	156	237	-34.0%	38	71	110	157	7	8	0	NM
Alaska	72	115	-37.0%	38	71	27	36	7	8	0	0
Hawaii	84	122	-31.0%	0	0	84	121	0	0	0	NM
U.S. Total	111,697	112,615	-0.8%	82,689	83,219	28,412	28,753	28	29	567	615

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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, February 2017 and February 2016 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	98	182	-46.0%	7	5	83	168	6	6	NM	3
Connecticut	14	12	13.0%	1	NM	13	9	NM	NM	0	NM
Maine	8	95	-91.0%	0	NM	7	92	0	NM	NM	2
Massachusetts	66	68	-3.4%	NM	1	62	65	2	NM	0	NM
New Hampshire	5	3	73.0%	4	NM	NM	NM	1	NM	0	NM
Rhode Island	NM	NM	NM	1	1	NM	NM	2	NM	0	0
Vermont	1	NM	NM	1	NM	0	0	0	NM	0	0
Middle Atlantic	121	441	-73.0%	43	159	69	270	NM	5	5	6
New Jersey	NM	53	NM	NM	NM	NM	52	0	NM	0	NM
New York	75	342	-78.0%	43	159	NM	175	NM	4	4	4
Pennsylvania	40	46	-11.0%	0	NM	38	43	1	NM	2	NM
East North Central	56	89	-37.0%	37	58	17	29	0	NM	2	2
Illinois	8	15	-46.0%	NM	NM	8	14	0	NM	0	0
Indiana	13	18	-29.0%	12	17	0	NM	0	NM	1	1
Michigan	10	17	-39.0%	NM	16	0	0	0	0	1	0
Ohio	22	31	-30.0%	12	17	9	14	0	NM	0	1
Wisconsin	NM	9	NM	NM	6	0	2	0	NM	NM	NM
West North Central	39	48	-19.0%	39	48	NM	NM	0	NM	0	0
Iowa	NM	13	NM	NM	13	NM	NM	0	NM	0	NM
Kansas	10	8	26.0%	10	8	0	0	0	0	0	0
Minnesota	NM	3	NM	NM	NM	NM	NM	0	NM	0	0
Missouri	9	16	-48.0%	9	16	0	NM	0	NM	0	0
Nebraska	NM	1	NM	NM	1	0	0	0	0	0	0
North Dakota	8	6	30.0%	8	6	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	269	353	-24.0%	206	237	57	104	3	NM	NM	11
Delaware	NM	38	NM	0	NM	NM	37	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	75	23	222.0%	74	21	NM	NM	0	0	NM	1
Georgia	NM	13	NM	7	10	NM	NM	0	NM	NM	3
Maryland	9	55	-84.0%	0	NM	8	53	0	NM	0	0
North Carolina	51	77	-34.0%	46	74	NM	NM	0	NM	NM	NM
South Carolina	NM	34	NM	NM	29	0	NM	NM	NM	0	5
Virginia	71	101	-30.0%	NM	89	37	11	3	NM	NM	NM
West Virginia	26	12	111.0%	26	12	0	0	0	0	0	0
East South Central	36	40	-10.0%	35	38	NM	NM	0	NM	NM	2
Alabama	NM	7	NM	3	5	NM	NM	0	0	NM	2
Kentucky	18	17	4.4%	18	17	0	0	0	0	0	0
Mississippi	NM	2	NM	NM	2	0	0	0	0	0	0
Tennessee	14	13	6.4%	14	13	0	NM	0	NM	0	NM
West South Central	32	17	86.0%	13	10	18	6	0	NM	NM	NM
Arkansas	15	2	783.0%	NM	1	12	0	0	0	NM	NM
Louisiana	NM	4	NM	NM	2	0	2	0	0	0	0
Oklahoma	2	1	178.0%	2	0	0	0	0	NM	0	NM
Texas	12	11	12.0%	6	6	6	5	0	NM	0	NM
Mountain	36	29	25.0%	34	26	1	2	0	NM	0	NM
Arizona	11	4	193.0%	11	4	0	0	0	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	NM	NM	NM	NM	NM	1	2	0	0	0	0
Nevada	0	1	-57.0%	0	1	0	0	0	0	0	0
New Mexico	NM	9	NM	NM	9	0	0	0	0	0	NM
Utah	4	3	48.0%	4	3	0	NM	0	0	0	NM
Wyoming	7	6	21.0%	7	6	0	0	0	0	0	NM
Pacific Contiguous	17	8	118.0%	NM	6	1	NM	0	NM	7	2
California	11	5	119.0%	NM	5	0	NM	0	NM	6	NM
Oregon	NM	NM	NM	NM	0	0	0	0	NM	0	0
Washington	3	3	17.0%	NM	NM	0	NM	0	NM	1	1
Pacific Noncontiguous	855	904	-5.3%	757	818	76	64	1	2	21	20
Alaska	141	119	19.0%	133	113	0	0	1	1	7	5
Hawaii	715	785	-8.9%	624	705	76	64	1	1	14	NM
U.S. Total	1,558	2,111	-26.0%	1,180	1,405	322	645	15	14	41	47

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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 February 2017 and February 2016 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	188	292	-36.0%	15	22	149	254	21	10	3	6
Connecticut	32	31	2.6%	2	2	30	25	NM	NM	0	NM
Maine	35	138	-74.0%	0	NM	32	133	1	NM	3	4
Massachusetts	102	104	-1.9%	NM	12	86	89	14	NM	0	NM
New Hampshire	9	6	61.0%	7	3	NM	NM	3	2	0	NM
Rhode Island	NM	12	NM	3	3	NM	7	3	NM	0	0
Vermont	2	NM	NM	NM	NM	0	0	0	NM	0	0
Middle Atlantic	302	678	-56.0%	89	251	190	404	NM	9	12	14
New Jersey	41	73	-43.0%	NM	NM	41	71	0	NM	0	NM
New York	163	502	-67.0%	89	250	58	236	NM	7	8	8
Pennsylvania	97	103	-6.0%	0	NM	91	97	2	NM	4	4
East North Central	136	185	-26.0%	86	120	45	59	1	1	4	5
Illinois	18	30	-41.0%	NM	3	16	27	0	1	0	0
Indiana	30	40	-26.0%	27	37	0	NM	0	NM	3	3
Michigan	25	39	-36.0%	23	38	0	0	1	0	1	1
Ohio	51	63	-19.0%	22	31	29	31	0	NM	0	1
Wisconsin	NM	13	NM	NM	11	0	2	0	NM	NM	0
West North Central	103	85	21.0%	101	81	1	3	1	NM	0	0
Iowa	NM	19	NM	NM	18	NM	NM	0	NM	0	NM
Kansas	22	18	21.0%	22	18	0	0	0	0	0	0
Minnesota	NM	9	NM	NM	6	1	3	1	NM	0	0
Missouri	19	27	-31.0%	19	27	0	NM	0	NM	0	0
Nebraska	NM	2	NM	NM	2	0	0	0	0	0	0
North Dakota	22	9	154.0%	22	9	0	0	0	NM	0	NM
South Dakota	NM	NM	NM	NM	NM	0	NM	NM	NM	0	0
South Atlantic	627	1,080	-42.0%	485	737	126	320	8	NM	9	21
Delaware	10	66	-84.0%	0	NM	10	65	0	0	0	0
District of Columbia	0	NM	NM	0	0	0	0	0	NM	0	0
Florida	120	92	30.0%	117	84	2	NM	0	0	NM	3
Georgia	38	74	-49.0%	24	32	11	33	1	1	NM	8
Maryland	36	131	-72.0%	1	4	35	126	0	NM	0	1
North Carolina	141	190	-26.0%	131	135	NM	52	0	NM	2	NM
South Carolina	51	85	-40.0%	49	77	1	NM	NM	NM	2	7
Virginia	183	412	-56.0%	115	373	60	38	7	NM	1	NM
West Virginia	47	30	60.0%	47	29	0	0	0	0	0	0
East South Central	97	113	-14.0%	90	97	4	11	0	NM	NM	6
Alabama	17	30	-44.0%	10	14	4	10	0	0	NM	5
Kentucky	39	33	17.0%	39	33	0	0	0	0	0	0
Mississippi	5	11	-52.0%	5	10	0	0	0	0	0	0
Tennessee	36	39	-7.6%	35	38	0	NM	0	NM	0	0
West South Central	56	47	18.0%	27	34	28	11	0	NM	1	NM
Arkansas	23	13	70.0%	NM	12	18	1	0	0	NM	1
Louisiana	NM	9	NM	NM	5	0	3	0	0	0	0
Oklahoma	5	5	4.6%	5	4	0	0	0	NM	0	NM
Texas	21	21	1.5%	10	13	10	7	0	NM	1	NM
Mountain	82	61	34.0%	73	55	8	6	0	NM	0	NM
Arizona	24	9	179.0%	24	9	0	0	0	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	NM
Idaho	0	NM	NM	0	NM	0	0	0	0	0	0
Montana	8	5	47.0%	NM	NM	7	5	0	0	0	0
Nevada	1	3	-72.0%	0	2	1	1	0	0	0	0
New Mexico	20	22	-8.9%	20	22	0	0	0	0	0	NM
Utah	11	5	103.0%	10	5	0	NM	0	0	0	NM
Wyoming	15	12	23.0%	15	12	0	0	0	0	0	NM
Pacific Contiguous	37	16	123.0%	NM	11	7	2	0	NM	11	2
California	19	12	61.0%	NM	9	1	NM	0	NM	8	NM
Oregon	5	NM	NM	5	0	0	0	0	NM	0	0
Washington	12	4	187.0%	NM	NM	6	1	0	NM	3	2
Pacific Noncontiguous	1,913	1,883	1.6%	1,688	1,679	175	163	4	3	46	39
Alaska	330	246	34.0%	314	232	0	0	3	1	14	14
Hawaii	1,583	1,637	-3.3%	1,375	1,447	175	163	1	2	33	25
U.S. Total	3,540	4,441	-20.0%	2,673	3,086	733	1,234	45	26	89	95

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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.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, February 2017 and February 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	4	NM	0	0	0	0	0	0	NM	4
New Jersey	1	NM	NM	0	0	0	0	0	0	1	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	3	NM	0	0	0	0	0	0	NM	3
East North Central	56	101	-45.0%	30	73	24	25	0	0	2	3
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	50	-100.0%	0	50	0	0	0	0	0	0
Michigan	32	23	35.0%	30	21	0	0	0	0	2	2
Ohio	24	25	-6.8%	0	0	24	25	0	0	0	0
Wisconsin	1	3	-78.0%	1	1	0	0	0	0	0	1
West North Central	0	2	-91.0%	0	0	0	0	0	0	0	NM
Iowa	0	2	-91.0%	0	0	0	0	0	0	0	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	31	46	-34.0%	28	44	0	0	0	0	NM	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	28	44	-36.0%	28	44	0	0	0	0	0	0
Georgia	NM	2	NM	0	0	0	0	0	0	NM	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	13	33	-61.0%	13	33	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	13	33	-61.0%	13	33	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	151	128	18.0%	146	121	0	0	0	0	5	7
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	148	124	20.0%	146	121	0	0	0	0	3	3
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3	4	-31.0%	0	0	0	0	0	0	3	4
Mountain	12	14	-14.0%	0	0	12	14	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	12	14	-14.0%	0	0	12	14	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	266	329	-19.0%	217	272	36	39	0	0	13	17

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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 February 2017 and February 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 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	8	NM	NM	0	0	0	0	0	0	8	NM
New Jersey	1	NM	NM	0	0	0	0	0	0	1	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	7	NM	NM	0	0	0	0	0	0	7	NM
East North Central	131	165	-21.0%	75	131	52	27	0	0	3	8
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	107	-100.0%	0	107	0	0	0	0	0	0
Michigan	75	27	175.0%	72	22	0	1	0	0	3	4
Ohio	52	26	103.0%	0	0	52	25	0	0	0	1
Wisconsin	3	5	-30.0%	3	2	0	0	0	0	0	3
West North Central	3	6	-49.0%	0	0	0	0	0	1	3	NM
Iowa	3	6	-49.0%	0	0	0	0	0	1	3	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	75	120	-37.0%	70	116	0	0	0	0	5	4
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	70	116	-40.0%	70	116	0	0	0	0	0	0
Georgia	5	4	27.0%	0	0	0	0	0	0	5	4
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	51	54	-5.0%	51	54	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	51	54	-5.0%	51	54	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	332	287	15.0%	322	273	0	0	0	0	10	14
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	326	277	17.0%	322	273	0	0	0	0	3	4
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	6	10	-38.0%	0	0	0	0	0	0	6	10
Mountain	28	30	-7.1%	0	0	28	30	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	28	30	-7.1%	0	0	28	30	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	628	670	-6.3%	519	573	80	56	0	1	29	40

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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.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, February 2017 and February 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	27,039	26,408	2.4%	NM	69	25,539	24,922	NM	719	720	698
Connecticut	8,924	10,379	-14.0%	28	0	8,204	9,659	NM	320	NM	399
Maine	NM	2,095	NM	0	0	NM	1,883	22	NM	NM	188
Massachusetts	13,082	10,183	28.0%	NM	69	12,553	9,705	NM	309	153	100
New Hampshire	920	1,175	-22.0%	1	0	892	1,145	16	NM	11	NM
Rhode Island	2,989	2,576	16.0%	0	0	2,964	2,530	26	NM	0	0
Vermont	2	NM	NM	1	0	0	0	2	NM	0	0
Middle Atlantic	70,666	83,027	-15.0%	6,847	7,910	62,112	73,224	NM	875	942	1,019
New Jersey	13,546	20,239	-33.0%	22	NM	13,117	19,802	NM	NM	283	250
New York	27,080	29,327	-7.7%	6,825	7,863	19,573	20,622	NM	638	NM	204
Pennsylvania	30,041	33,461	-10.0%	0	0	29,422	32,800	118	NM	NM	565
East North Central	47,287	66,602	-29.0%	18,791	28,768	25,298	35,376	881	854	2,317	1,604
Illinois	6,541	9,107	-28.0%	NM	395	5,790	8,147	NM	291	NM	274
Indiana	10,034	11,480	-13.0%	7,284	8,578	1,770	2,515	99	84	882	303
Michigan	11,645	16,778	-31.0%	2,876	4,902	7,656	10,714	284	317	829	844
Ohio	13,841	19,170	-28.0%	3,697	5,358	9,851	13,682	212	NM	81	NM
Wisconsin	5,226	10,067	-48.0%	4,791	9,535	232	317	30	54	173	161
West North Central	7,607	11,522	-34.0%	6,167	9,395	901	1,516	267	271	271	339
Iowa	1,097	1,744	-37.0%	905	1,485	0	0	33	55	159	204
Kansas	607	525	16.0%	600	510	0	0	0	0	7	NM
Minnesota	3,152	5,391	-42.0%	2,619	4,419	NM	725	206	167	59	80
Missouri	1,824	2,494	-27.0%	NM	1,633	NM	791	27	49	45	NM
Nebraska	NM	108	NM	NM	101	0	0	0	NM	0	NM
North Dakota	421	689	-39.0%	419	677	0	0	0	0	2	NM
South Dakota	321	570	-44.0%	321	570	0	0	0	0	0	0
South Atlantic	159,273	167,447	-4.9%	133,717	139,405	22,407	25,454	612	586	2,538	2,003
Delaware	3,004	3,093	-2.9%	2	NM	2,095	2,366	0	0	NM	707
District of Columbia	67	NM	NM	0	0	0	0	67	NM	0	0
Florida	71,533	79,842	-10.0%	67,803	74,091	3,058	5,039	11	NM	661	696
Georgia	27,533	25,890	6.3%	21,370	21,094	5,859	4,528	0	0	305	269
Maryland	3,170	2,649	20.0%	0	0	2,610	2,107	518	510	42	32
North Carolina	21,861	24,894	-12.0%	19,194	22,642	2,623	2,182	4	5	39	64
South Carolina	8,788	7,850	12.0%	8,092	6,509	598	1,309	0	0	98	32
Virginia	23,071	22,945	0.5%	17,247	15,033	5,532	7,716	11	NM	282	190
West Virginia	246	234	5.1%	9	15	NM	207	0	0	204	12
East South Central	48,875	69,952	-30.0%	31,947	46,893	15,713	21,815	NM	NM	1,112	1,137
Alabama	23,394	29,690	-21.0%	9,358	9,616	13,447	19,378	0	0	589	697
Kentucky	2,022	3,850	-47.0%	1,869	3,711	0	0	0	0	NM	140
Mississippi	18,251	29,890	-39.0%	15,829	27,250	2,247	2,438	4	NM	171	200
Tennessee	5,208	6,521	-20.0%	4,891	6,316	19	0	NM	NM	199	101
West South Central	136,410	177,958	-23.0%	34,822	55,350	65,049	84,015	548	547	35,991	38,045
Arkansas	6,032	5,447	11.0%	NM	3,137	4,606	2,154	0	NM	134	154
Louisiana	31,115	41,616	-25.0%	14,449	19,852	1,503	4,376	137	NM	15,026	17,247
Oklahoma	10,478	16,090	-35.0%	7,017	12,052	3,357	3,953	0	NM	104	85
Texas	88,785	114,805	-23.0%	12,064	20,309	55,583	73,533	410	405	20,728	20,557
Mountain	34,388	46,872	-27.0%	26,590	36,332	6,490	9,453	347	NM	962	851
Arizona	5,448	12,627	-57.0%	3,855	8,602	1,490	3,948	103	NM	0	0
Colorado	5,397	6,135	-12.0%	4,455	5,066	922	1,049	0	0	20	NM
Idaho	1,660	2,480	-33.0%	923	1,361	612	1,014	36	0	89	105
Montana	309	578	-46.0%	251	524	51	NM	0	0	7	0
Nevada	13,068	14,431	-9.4%	11,607	13,272	1,291	952	40	NM	131	NM
New Mexico	5,045	5,806	-13.0%	2,975	3,341	1,977	2,385	NM	NM	0	NM
Utah	3,099	4,373	-29.0%	2,488	4,053	148	NM	75	NM	388	214
Wyoming	362	443	-18.0%	NM	NM	0	NM	0	0	327	330
Pacific Contiguous	52,134	65,254	-20.0%	20,800	26,799	24,942	33,339	1,230	837	5,163	4,279
California	40,818	48,841	-16.0%	15,696	19,042	18,897	24,813	1,179	772	5,046	4,213
Oregon	6,198	9,277	-33.0%	2,526	3,396	3,591	5,806	42	NM	NM	17
Washington	5,118	7,137	-28.0%	2,578	4,361	2,454	2,720	9	NM	78	48
Pacific Noncontiguous	1,065	1,898	-44.0%	976	1,810	0	0	15	NM	74	NM
Alaska	1,065	1,898	-44.0%	976	1,810	0	0	15	NM	74	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	584,745	716,939	-18.0%	280,771	352,730	248,451	309,115	5,433	5,032	50,090	50,062

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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 February 2017 and February 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	58,032	54,981	5.6%	NM	87	54,811	52,016	NM	1,414	1,552	1,464
Connecticut	20,006	21,636	-7.5%	65	0	18,456	20,118	NM	675	NM	844
Maine	2,478	4,752	-48.0%	0	0	2,062	4,312	50	NM	NM	388
Massachusetts	27,230	20,119	35.0%	NM	87	26,091	19,273	NM	550	324	209
New Hampshire	2,052	3,405	-40.0%	2	0	1,994	3,341	34	NM	21	NM
Rhode Island	6,262	5,068	24.0%	0	0	6,207	4,972	55	NM	0	0
Vermont	5	NM	NM	2	0	0	0	3	NM	0	0
Middle Atlantic	151,771	174,463	-13.0%	14,616	16,305	133,586	154,210	1,613	1,848	1,955	2,101
New Jersey	29,996	42,971	-30.0%	69	NM	29,063	42,052	NM	297	596	528
New York	58,495	62,815	-6.9%	14,542	16,211	42,488	44,842	NM	1,346	NM	416
Pennsylvania	63,279	68,677	-7.9%	5	0	62,035	67,316	240	NM	NM	1,157
East North Central	101,709	133,978	-24.0%	41,716	58,413	53,051	70,592	1,887	1,724	5,055	3,248
Illinois	12,773	17,601	-27.0%	NM	586	11,064	15,871	NM	563	NM	581
Indiana	21,635	24,413	-11.0%	15,684	18,704	3,852	4,867	186	170	1,912	672
Michigan	26,858	33,065	-19.0%	7,303	9,485	17,128	21,301	601	658	1,826	1,620
Ohio	28,723	38,911	-26.0%	7,508	10,662	20,567	27,974	472	224	175	52
Wisconsin	11,720	19,987	-41.0%	10,850	18,975	439	579	69	109	362	324
West North Central	19,249	23,149	-17.0%	15,789	19,176	2,034	2,757	574	523	851	693
Iowa	2,997	3,633	-18.0%	2,438	3,124	0	0	70	108	489	402
Kansas	1,542	1,234	25.0%	1,492	1,177	0	0	0	0	50	57
Minnesota	8,182	10,855	-25.0%	6,842	9,090	NM	1,284	456	327	206	155
Missouri	4,065	4,813	-16.0%	2,559	3,210	1,357	1,474	46	87	104	NM
Nebraska	538	202	167.0%	536	188	0	0	2	NM	0	NM
North Dakota	1,052	1,387	-24.0%	1,050	1,364	0	0	0	0	2	23
South Dakota	873	1,025	-15.0%	873	1,025	0	0	0	0	0	0
South Atlantic	323,140	344,831	-6.3%	271,616	289,109	44,866	50,151	1,282	1,245	5,376	4,325
Delaware	5,919	6,164	-4.0%	4	NM	4,011	4,549	0	0	NM	1,579
District of Columbia	145	NM	NM	0	0	0	0	145	NM	0	0
Florida	147,511	167,038	-12.0%	139,843	155,878	6,227	9,645	27	NM	1,413	1,481
Georgia	56,250	54,745	2.7%	43,739	44,322	11,850	9,862	0	0	660	561
Maryland	5,739	4,359	32.0%	0	0	4,582	3,208	1,073	1,083	84	68
North Carolina	43,862	48,285	-9.2%	38,398	43,665	5,371	4,467	9	9	84	143
South Carolina	16,492	17,427	-5.4%	14,736	15,251	1,522	2,100	1	NM	233	74
Virginia	46,575	46,258	0.7%	34,777	29,883	11,201	15,968	27	NM	571	396
West Virginia	647	448	44.0%	118	74	NM	352	0	0	427	22
East South Central	107,502	147,616	-27.0%	71,558	97,979	33,388	47,073	NM	223	2,325	2,341
Alabama	49,335	64,095	-23.0%	19,700	20,848	28,383	41,829	0	0	1,251	1,417
Kentucky	4,650	9,528	-51.0%	4,121	9,018	205	208	0	0	NM	303
Mississippi	43,230	60,906	-29.0%	38,082	55,455	4,780	5,036	15	NM	353	411
Tennessee	10,287	13,087	-21.0%	9,654	12,659	20	0	NM	218	397	210
West South Central	286,514	384,934	-26.0%	72,013	120,966	137,349	185,698	1,216	1,126	75,935	77,143
Arkansas	9,411	13,636	-31.0%	NM	7,948	6,567	5,338	0	NM	319	345
Louisiana	63,711	86,811	-27.0%	27,850	42,674	3,390	8,932	290	NM	32,181	34,924
Oklahoma	24,354	37,726	-35.0%	16,241	26,982	7,900	10,570	0	NM	213	173
Texas	189,037	246,761	-23.0%	25,397	43,362	119,492	160,858	926	840	43,222	41,701
Mountain	83,230	103,687	-20.0%	65,462	79,534	14,942	21,703	732	595	2,094	1,856
Arizona	15,020	27,982	-46.0%	11,333	18,531	3,472	9,267	216	NM	0	0
Colorado	13,331	13,709	-2.8%	10,862	11,225	2,427	2,444	0	0	42	NM
Idaho	4,249	5,410	-21.0%	2,379	2,890	1,566	2,319	77	0	226	201
Montana	735	1,214	-39.0%	588	1,105	133	NM	0	0	14	0
Nevada	29,193	32,403	-9.9%	26,125	29,511	2,685	2,397	98	NM	284	401
New Mexico	11,405	12,539	-9.0%	6,790	7,345	4,424	5,001	189	NM	2	NM
Utah	8,447	9,553	-12.0%	7,235	8,715	235	NM	152	NM	825	542
Wyoming	850	877	-3.1%	150	NM	0	NM	0	0	701	665
Pacific Contiguous	127,952	148,731	-14.0%	52,363	57,739	61,757	78,616	2,614	2,177	11,218	10,198
California	96,122	112,475	-15.0%	36,746	40,817	45,912	59,590	2,508	2,050	10,957	10,018
Oregon	17,390	19,604	-11.0%	7,167	7,260	10,048	12,182	NM	NM	NM	49
Washington	14,440	16,653	-13.0%	8,451	9,662	5,797	6,845	16	15	177	131
Pacific Noncontiguous	3,192	4,064	-21.0%	3,020	3,890	0	0	20	NM	153	172
Alaska	3,192	4,064	-21.0%	3,020	3,890	0	0	20	NM	153	172
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,262,290	1,520,435	-17.0%	608,421	743,200	535,784	662,816	11,572	10,877	106,513	103,542

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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.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector, February 2017 and February 2016 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	852	992	-14.0%	0	0	798	938	54	NM	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	NM	NM	0	0	NM	NM	0	0	0	0
Massachusetts	296	353	-16.0%	0	0	296	353	0	0	0	0
New Hampshire	104	147	-30.0%	0	0	NM	93	54	NM	0	0
Rhode Island	320	333	-3.9%	0	0	320	333	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	4,286	4,970	-14.0%	0	0	4,078	4,759	NM	NM	149	114
New Jersey	741	821	-9.7%	0	0	715	784	NM	NM	0	0
New York	1,222	1,477	-17.0%	0	0	1,222	1,477	0	0	0	0
Pennsylvania	2,323	2,673	-13.0%	0	0	2,141	2,498	NM	NM	149	114
East North Central	5,235	6,263	-16.0%	651	740	4,473	5,427	35	NM	76	NM
Illinois	1,088	1,328	-18.0%	36	NM	1,052	1,289	0	0	0	0
Indiana	709	819	-13.0%	599	682	84	104	0	0	NM	NM
Michigan	1,639	1,898	-14.0%	0	0	1,639	1,898	0	0	0	0
Ohio	869	1,077	-19.0%	0	0	869	1,077	0	0	0	0
Wisconsin	930	1,142	-19.0%	NM	NM	828	1,059	35	NM	50	NM
West North Central	818	1,101	-26.0%	288	318	530	783	0	0	0	0
Iowa	98	267	-63.0%	0	0	98	267	0	0	0	0
Kansas	NM	140	NM	0	0	NM	140	0	0	0	0
Minnesota	292	348	-16.0%	NM	NM	224	269	0	0	0	0
Missouri	NM	198	NM	NM	90	NM	108	0	0	0	0
Nebraska	142	149	-4.3%	142	149	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	3,733	4,454	-16.0%	399	469	2,965	3,517	185	241	185	228
Delaware	NM	150	NM	0	0	NM	130	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	556	607	-8.5%	134	155	422	449	0	NM	0	NM
Georgia	388	423	-8.4%	0	0	349	375	0	0	38	NM
Maryland	193	223	-13.0%	0	0	NM	154	NM	NM	0	0
North Carolina	866	1,084	-20.0%	0	0	767	942	99	142	0	0
South Carolina	422	499	-16.0%	258	307	NM	NM	0	0	134	158
Virginia	1,176	1,455	-19.0%	7	NM	1,147	1,419	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	411	493	-17.0%	156	195	256	299	0	0	0	0
Alabama	NM	97	NM	0	0	NM	97	0	0	0	0
Kentucky	174	210	-17.0%	156	195	19	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	NM	162	NM	0	0	NM	162	0	0	0	0
West South Central	1,310	1,702	-23.0%	0	0	1,260	1,629	50	NM	0	0
Arkansas	NM	160	NM	0	0	NM	160	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	NM	NM	0	0	NM	NM	0	0	0	0
Texas	1,152	1,512	-24.0%	0	0	1,102	1,439	50	NM	0	0
Mountain	439	505	-13.0%	NM	NM	381	424	38	NM	0	0
Arizona	NM	93	NM	0	0	NM	93	0	0	0	0
Colorado	NM	104	NM	0	0	NM	104	0	0	0	0
Idaho	NM	NM	NM	NM	NM	NM	NM	12	NM	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	167	165	1.5%	0	0	NM	131	26	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,437	5,716	-22.0%	565	720	2,799	3,486	1,073	1,510	0	0
California	3,695	4,734	-22.0%	199	267	2,458	3,003	1,038	1,464	0	0
Oregon	393	540	-27.0%	NM	128	262	366	NM	NM	0	0
Washington	349	442	-21.0%	270	325	NM	117	0	0	0	0
Pacific Noncontiguous	22	NM	NM	0	0	0	0	22	NM	0	0
Alaska	22	NM	NM	0	0	0	0	22	NM	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	21,544	26,323	-18.0%	2,079	2,469	17,540	21,261	1,515	2,183	410	410

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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 February 2017 and February 2016 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	1,775	2,086	-15.0%	0	0	1,666	1,964	109	122	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	131	155	-16.0%	0	0	131	155	0	0	0	0
Massachusetts	626	741	-16.0%	0	0	626	741	0	0	0	0
New Hampshire	211	315	-33.0%	0	0	102	193	109	122	0	0
Rhode Island	659	699	-5.8%	0	0	659	699	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	9,011	10,274	-12.0%	0	0	8,572	9,816	127	212	312	246
New Jersey	1,539	1,725	-11.0%	0	0	1,483	1,646	NM	NM	0	0
New York	2,541	3,095	-18.0%	0	0	2,541	3,095	0	0	0	0
Pennsylvania	4,931	5,455	-9.6%	0	0	4,548	5,074	NM	134	312	246
East North Central	11,036	13,157	-16.0%	1,375	1,551	9,432	11,404	73	59	156	144
Illinois	2,301	2,783	-17.0%	78	NM	2,224	2,701	0	0	0	0
Indiana	1,487	1,717	-13.0%	1,267	1,431	168	218	0	0	NM	NM
Michigan	3,493	3,979	-12.0%	0	0	3,493	3,979	0	0	0	0
Ohio	1,824	2,265	-19.0%	0	0	1,824	2,265	0	0	0	0
Wisconsin	1,931	2,414	-20.0%	NM	NM	1,724	2,242	73	59	104	76
West North Central	1,707	2,289	-25.0%	590	641	1,117	1,648	0	0	0	0
Iowa	201	562	-64.0%	0	0	201	562	0	0	0	0
Kansas	249	294	-16.0%	0	0	249	294	0	0	0	0
Minnesota	613	726	-16.0%	NM	161	478	566	0	0	0	0
Missouri	339	403	-16.0%	NM	178	190	225	0	0	0	0
Nebraska	305	302	0.9%	305	302	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	7,791	9,266	-16.0%	835	887	6,185	7,376	392	516	379	486
Delaware	257	315	-19.0%	0	0	230	273	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,186	1,189	-0.3%	284	236	902	946	0	NM	0	NM
Georgia	777	891	-13.0%	0	0	711	788	0	0	66	103
Maryland	404	465	-13.0%	0	0	269	318	135	146	0	0
North Carolina	1,822	2,290	-20.0%	0	0	1,612	1,982	210	308	0	0
South Carolina	885	1,044	-15.0%	537	636	NM	NM	0	0	286	335
Virginia	2,438	3,043	-20.0%	14	NM	2,377	2,969	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	862	1,035	-17.0%	329	408	533	627	0	0	0	0
Alabama	173	205	-16.0%	0	0	173	205	0	0	0	0
Kentucky	359	439	-18.0%	329	408	30	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	287	340	-16.0%	0	0	287	340	0	0	0	0
West South Central	2,789	3,582	-22.0%	0	0	2,683	3,426	105	156	0	0
Arkansas	286	338	-15.0%	0	0	286	338	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	NM	NM	0	0	NM	NM	0	0	0	0
Texas	2,450	3,181	-23.0%	0	0	2,345	3,025	105	156	0	0
Mountain	926	1,063	-13.0%	NM	NM	809	893	76	115	0	0
Arizona	165	196	-16.0%	0	0	165	196	0	0	0	0
Colorado	185	219	-16.0%	0	0	185	219	0	0	0	0
Idaho	135	189	-28.0%	NM	NM	NM	NM	28	NM	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	345	347	-0.6%	0	0	297	275	49	NM	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	9,523	12,078	-21.0%	1,133	1,498	6,015	7,367	2,376	3,213	0	0
California	7,947	10,012	-21.0%	372	544	5,274	6,351	2,301	3,116	0	0
Oregon	853	1,137	-25.0%	205	269	573	771	NM	NM	0	0
Washington	723	930	-22.0%	555	685	168	245	0	0	0	0
Pacific Noncontiguous	79	272	-71.0%	0	0	0	0	79	272	0	0
Alaska	79	272	-71.0%	0	0	0	0	79	272	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	45,500	55,102	-17.0%	4,303	5,041	37,012	44,520	3,339	4,665	846	877

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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, February 2017 and February 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	269	287	-6.2%	0	0	255	272	14	15	0	0
Connecticut	84	100	-16.0%	0	0	84	100	0	0	0	0
Maine	24	22	9.7%	0	0	10	7	14	15	0	0
Massachusetts	151	157	-3.5%	0	0	151	157	0	0	0	0
New Hampshire	10	8	19.0%	0	0	10	8	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	395	387	2.2%	0	0	315	309	80	78	0	0
New Jersey	107	103	3.8%	0	0	80	75	27	28	0	0
New York	145	135	7.6%	0	0	109	101	36	33	0	0
Pennsylvania	143	149	-3.8%	0	0	126	133	17	16	0	0
East North Central	18	19	-2.3%	3	3	0	0	16	16	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	46.0%	0	0	0	0	1	1	0	0
Michigan	15	16	-4.6%	0	0	0	0	15	16	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	0.4%	3	3	0	0	0	0	0	0
West North Central	38	41	-7.7%	16	24	20	14	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	38	41	-7.7%	16	24	20	14	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	427	427	-0.1%	0	0	397	401	30	27	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	324	302	7.2%	0	0	324	302	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	63	57	10.0%	0	0	63	57	0	NM	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	41	68	-41.0%	0	0	11	42	30	26	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	1	-100.0%	0	0	0	0	0	0	0	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	1	-100.0%	0	0	0	0	0	0	0	1
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	NM	NM	0	0	0	NM	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	NM	NM	0	0	0	NM	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	57	34	68.0%	0	0	57	34	0	0	0	0
California	38	17	129.0%	0	0	38	17	0	0	0	0
Oregon	8	7	20.0%	0	0	8	7	0	0	0	0
Washington	11	10	2.4%	0	0	11	10	0	0	0	0
Pacific Noncontiguous	39	19	106.0%	0	0	0	0	39	19	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	39	19	106.0%	0	0	0	0	39	19	0	0
U.S. Total	1,244	1,215	2.4%	19	27	1,045	1,030	180	157	0	1

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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 February 2017 and February 2016 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	581	596	-2.5%	0	0	551	565	30	31	0	0
Connecticut	188	209	-10.0%	0	0	188	209	0	0	0	0
Maine	49	45	8.7%	0	0	19	15	30	31	0	0
Massachusetts	323	323	-0.1%	0	0	323	323	0	0	0	0
New Hampshire	21	18	20.0%	0	0	21	18	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	850	807	5.4%	0	0	678	641	173	166	0	0
New Jersey	230	215	7.1%	0	0	174	158	57	57	0	0
New York	303	286	6.2%	0	0	226	216	77	70	0	0
Pennsylvania	317	306	3.4%	0	0	278	267	39	39	0	0
East North Central	39	38	3.3%	6	5	0	0	34	33	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	2	1	37.0%	0	0	0	0	2	1	0	0
Michigan	32	31	1.8%	0	0	0	0	32	31	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	6	5	4.3%	6	5	0	0	0	0	0	0
West North Central	91	90	2.1%	48	56	40	30	4	4	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	91	90	2.1%	48	56	40	30	4	4	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	927	893	3.7%	0	0	866	838	60	55	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	670	630	6.4%	0	0	670	630	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	130	118	9.6%	0	0	130	118	0	NM	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	127	145	-13.0%	0	0	66	90	60	55	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	2	-100.0%	0	0	0	0	0	0	0	2
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	2	-100.0%	0	0	0	0	0	0	0	2
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	-100.0%	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	-100.0%	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	117	78	49.0%	0	0	117	78	0	0	0	0
California	76	42	81.0%	0	0	76	42	0	0	0	0
Oregon	19	15	29.0%	0	0	19	15	0	0	0	0
Washington	22	22	1.7%	0	0	22	22	0	0	0	0
Pacific Noncontiguous	75	51	46.0%	0	0	0	0	75	51	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	75	51	46.0%	0	0	0	0	75	51	0	0
U.S. Total	2,680	2,556	4.9%	54	61	2,252	2,153	375	340	0	2

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

Table 2.14.A. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, February 2017 and February 2016 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	4,701	5,749	-18.0%	775	958	3,392	4,255	9	NM	525	532
Connecticut	201	369	-46.0%	0	0	201	369	0	0	0	0
Maine	2,040	2,605	-22.0%	0	0	1,508	2,071	7	NM	525	532
Massachusetts	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Hampshire	1,778	1,983	-10.0%	417	508	1,361	1,475	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	522	626	-17.0%	358	451	162	NM	2	NM	0	0
Middle Atlantic	1,107	1,043	6.2%	0	0	652	566	0	0	456	476
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	752	672	12.0%	0	0	652	566	0	0	100	107
Pennsylvania	355	370	-4.1%	0	0	0	NM	0	0	355	370
East North Central	1,926	2,368	-19.0%	328	456	844	1,001	0	0	754	911
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,199	1,494	-20.0%	0	0	794	948	0	0	405	546
Ohio	164	183	-11.0%	0	0	50	NM	0	0	113	130
Wisconsin	564	691	-18.0%	328	456	0	0	0	0	235	235
West North Central	980	967	1.3%	148	200	517	543	42	38	273	186
Iowa	0	NM	NM	0	0	0	0	0	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	938	929	0.9%	148	200	517	543	0	0	273	186
Missouri	41	38	10.0%	0	0	0	0	41	38	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	9,735	9,897	-1.6%	1,557	1,942	2,944	2,931	16	NM	5,218	5,007
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	1,425	1,316	8.3%	0	0	695	630	0	0	729	686
Georgia	2,510	2,467	1.7%	0	0	601	667	0	0	1,910	1,800
Maryland	75	59	28.0%	0	0	0	0	16	NM	59	42
North Carolina	1,445	1,232	17.0%	0	0	878	768	0	0	567	464
South Carolina	2,199	2,207	-0.4%	321	327	522	513	0	0	1,356	1,367
Virginia	2,080	2,615	-20.0%	1,235	1,615	247	352	0	0	597	648
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,962	3,066	-3.4%	0	0	NM	183	0	0	2,777	2,883
Alabama	1,834	1,838	-0.2%	0	0	NM	183	0	0	1,649	1,655
Kentucky	126	146	-14.0%	0	0	0	0	0	0	126	146
Mississippi	631	705	-11.0%	0	0	0	0	0	0	631	705
Tennessee	372	377	-1.5%	0	0	0	0	0	0	372	377
West South Central	2,983	3,251	-8.2%	0	0	0	312	0	0	2,983	2,938
Arkansas	657	713	-7.9%	0	0	0	0	0	0	657	713
Louisiana	1,646	1,560	5.5%	0	0	0	0	0	0	1,646	1,560
Oklahoma	97	96	1.2%	0	0	0	0	0	0	97	96
Texas	584	882	-34.0%	0	0	0	312	0	0	584	569
Mountain	773	658	17.0%	0	0	392	314	0	0	381	344
Arizona	256	248	3.0%	0	0	256	248	0	0	0	0
Colorado	102	11	853.0%	0	0	102	11	0	0	0	0
Idaho	369	355	3.8%	0	0	34	56	0	0	335	300
Montana	46	NM	NM	0	0	0	0	0	0	46	NM
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,548	5,747	-3.5%	355	436	3,491	3,786	0	0	1,702	1,526
California	3,685	3,807	-3.2%	0	0	3,283	3,544	0	0	402	263
Oregon	553	542	2.1%	0	0	208	242	0	0	345	300
Washington	1,310	1,399	-6.4%	355	436	0	0	0	0	955	963
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	30,715	32,746	-6.2%	3,162	3,992	12,417	13,892	66	58	15,069	14,803

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

Table 2.14.B. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, Year-to-Date through February 2017 and February 2016 (Billion Btus)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	9,485	11,873	-20.0%	1,565	1,954	6,768	8,815	18	NM	1,134	1,096
Connecticut	412	766	-46.0%	0	0	412	766	0	0	0	0
Maine	4,182	5,135	-19.0%	0	0	3,034	4,033	13	NM	1,134	1,096
Massachusetts	317	352	-10.0%	0	0	317	352	0	0	0	0
New Hampshire	3,541	4,325	-18.0%	855	1,026	2,686	3,299	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	1,034	1,295	-20.0%	710	927	319	364	5	NM	0	0
Middle Atlantic	2,231	2,161	3.3%	0	0	1,286	1,176	0	0	946	984
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	1,492	1,381	8.0%	0	0	1,285	1,173	0	0	207	209
Pennsylvania	739	779	-5.1%	0	0	0	NM	0	0	739	776
East North Central	4,253	4,898	-13.0%	800	1,001	1,760	2,027	0	0	1,693	1,870
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,597	3,035	-14.0%	0	NM	1,649	1,917	0	0	948	1,119
Ohio	363	380	-4.4%	0	0	110	110	0	0	253	270
Wisconsin	1,293	1,483	-13.0%	800	1,001	0	0	0	0	493	481
West North Central	1,976	1,954	1.1%	318	381	1,028	1,129	89	78	541	367
Iowa	1	NM	NM	0	0	0	0	1	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	1,892	1,877	0.8%	318	381	1,028	1,129	5	0	541	367
Missouri	83	76	9.3%	0	0	0	0	83	76	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	19,962	20,490	-2.6%	3,382	3,997	5,870	5,903	37	34	10,673	10,555
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	3,070	2,811	9.2%	0	0	1,555	1,356	0	0	1,515	1,454
Georgia	5,006	5,231	-4.3%	0	0	1,128	1,368	0	0	3,878	3,863
Maryland	160	116	38.0%	0	0	0	0	37	34	122	82
North Carolina	2,824	2,421	17.0%	0	0	1,662	1,422	0	0	1,162	1,000
South Carolina	4,469	4,545	-1.7%	650	638	1,019	1,102	0	0	2,800	2,806
Virginia	4,432	5,365	-17.0%	2,732	3,360	505	655	0	0	1,196	1,350
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,132	6,300	-2.7%	0	0	375	353	0	0	5,756	5,947
Alabama	3,767	3,749	0.5%	0	0	375	353	0	0	3,392	3,396
Kentucky	264	317	-16.0%	0	0	0	0	0	0	264	317
Mississippi	1,333	1,440	-7.5%	0	0	0	0	0	0	1,333	1,440
Tennessee	767	794	-3.4%	0	0	0	0	0	0	767	794
West South Central	6,213	6,437	-3.5%	0	0	212	312	0	0	6,001	6,125
Arkansas	1,338	1,368	-2.2%	0	0	0	0	0	0	1,338	1,368
Louisiana	3,251	3,375	-3.7%	0	0	0	0	0	0	3,251	3,375
Oklahoma	220	199	11.0%	0	0	0	0	0	0	220	199
Texas	1,404	1,496	-6.1%	0	0	212	312	0	0	1,192	1,183
Mountain	1,573	1,467	7.2%	0	0	788	700	0	0	785	767
Arizona	494	574	-14.0%	0	0	494	574	0	0	0	0
Colorado	201	11	NM	0	0	201	11	0	0	0	0
Idaho	781	792	-1.3%	0	0	93	115	0	0	688	676
Montana	97	NM	NM	0	0	0	0	0	0	97	NM
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	11,289	11,453	-1.4%	701	908	7,137	7,424	0	0	3,451	3,120
California	7,474	7,480	-0.1%	0	0	6,715	6,939	0	0	759	541
Oregon	1,117	1,141	-2.1%	0	0	422	485	0	0	694	655
Washington	2,699	2,833	-4.7%	701	908	0	0	0	0	1,998	1,924
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	63,114	67,033	-5.8%	6,766	8,242	25,223	27,838	144	121	30,981	30,832

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

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2007 - February 2017

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
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	163,946	30,880	872	131,812	20,471	630	32,134	10,409	241
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	192,269	31,579	1,240	149,113	20,697	974	43,156	10,883	266
April	193,991	31,695	1,181	151,329	20,909	901	42,662	10,786	280
May	193,432	31,925	1,071	151,237	21,114	826	42,195	10,810	246
June	183,248	31,687	905	144,987	20,967	689	38,261	10,720	216
July	169,465	31,190	858	135,110	20,652	678	34,354	10,537	180
August	160,452	34,823	780	129,111	20,402	589	31,341	14,421	190
Sept	158,238	34,768	768	128,419	20,378	566	29,820	14,389	201
October	162,739	34,723	812	132,438	20,268	606	30,301	14,455	207
November	172,208	30,982	833	139,080	20,501	606	33,128	10,480	227
December	163,946	30,880	872	131,812	20,471	630	32,134	10,409	241
Year 2017, End of Month Stocks									
January	157,359	31,030	827	125,648	20,373	584	31,711	10,657	243
February	161,985	30,549	859	128,557	20,096	606	33,428	10,453	253

Notes: See Glossary for definitions. Values for 2015 and prior years are final. Values for 2016 and 2017 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, February 2017 and 2016

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	February 2017	February 2016	Percentage Change	February 2017	February 2016	Percentage Change	February 2017	February 2016	Percentage Change
New England	1,419	1,722	-17.6%	4,502	4,661	-3.4%	0	0	--
Connecticut	W	W	W	1,553	1,661	-6.5%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,877	1,843	1.9%	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	--	43	54	-19.2%	0	0	--
Middle Atlantic	5,294	6,977	-24.1%	5,503	5,647	-2.6%	0	0	--
New Jersey	813	905	-10.2%	660	717	-7.9%	0	0	--
New York	W	W	W	3,597	3,533	1.8%	0	0	--
Pennsylvania	W	W	W	1,246	1,398	-10.9%	0	0	--
East North Central	33,668	40,873	-17.6%	1,041	1,184	-12.1%	346	262	31.9%
Illinois	7,918	10,918	-27.5%	71	82	-13.6%	0	0	--
Indiana	8,778	11,240	-21.9%	102	116	-11.9%	W	0	W
Michigan	4,726	5,348	-11.6%	321	345	-7.0%	W	W	W
Ohio	7,788	8,726	-10.8%	340	395	-14.0%	W	W	W
Wisconsin	4,457	4,640	-3.9%	206	245	-16.0%	W	W	W
West North Central	31,021	30,829	0.6%	918	1,054	-12.9%	0	0	--
Iowa	8,233	7,009	17.5%	122	145	-16.1%	0	0	--
Kansas	4,800	4,791	0.2%	120	138	-13.1%	0	0	--
Minnesota	4,035	4,520	-10.7%	123	146	-15.5%	0	0	--
Missouri	9,133	9,439	-3.2%	379	410	-7.5%	0	0	--
Nebraska	3,191	3,135	1.8%	89	116	-22.8%	0	0	--
North Dakota	W	W	W	38	40	-5.6%	0	0	--
South Dakota	W	W	W	47	59	-21.3%	0	0	--
South Atlantic	28,319	32,678	-13.3%	11,737	11,943	-1.7%	W	W	W
Delaware	W	W	W	418	468	-10.6%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	4,630	6,217	-25.5%	4,915	5,383	-8.7%	115	114	1.2%
Georgia	5,429	5,961	-8.9%	802	852	-5.9%	0	0	--
Maryland	1,989	1,543	28.9%	872	903	-3.4%	0	0	--
North Carolina	5,675	6,873	-17.4%	1,225	1,237	-1.0%	0	0	--
South Carolina	W	6,018	W	681	682	-0.1%	0	0	--
Virginia	1,213	1,301	-6.8%	2,677	2,265	18.2%	0	0	--
West Virginia	4,227	W	W	147	154	-4.5%	W	W	W
East South Central	16,375	17,483	-6.3%	1,953	1,869	4.5%	W	W	W
Alabama	3,389	4,479	-24.3%	332	269	23.7%	0	0	--
Kentucky	8,288	7,958	4.1%	232	239	-3.1%	W	W	W
Mississippi	1,247	1,466	-14.9%	564	578	-2.3%	0	0	--
Tennessee	3,452	3,579	-3.6%	825	784	5.2%	0	0	--
West South Central	25,038	34,536	-27.5%	1,784	1,873	-4.7%	W	W	W
Arkansas	3,308	5,272	-37.2%	W	W	W	0	0	--
Louisiana	2,710	3,718	-27.1%	417	401	3.9%	W	W	W
Oklahoma	4,403	5,629	-21.8%	W	W	W	0	0	--
Texas	14,617	19,917	-26.6%	1,077	1,190	-9.5%	0	0	--
Mountain	19,645	20,834	-5.7%	379	411	-8.0%	W	W	W
Arizona	3,070	4,719	-34.9%	133	139	-4.8%	0	0	--
Colorado	4,210	5,645	-25.4%	124	117	5.9%	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	18	20	-12.7%	W	W	W
Nevada	W	1,069	W	W	W	W	0	0	--
New Mexico	W	W	W	35	47	-25.2%	0	0	--
Utah	5,284	3,789	39.5%	30	42	-28.0%	0	0	--
Wyoming	4,402	3,318	32.7%	24	32	-24.0%	0	0	--
Pacific Contiguous	W	W	W	441	515	-14.3%	0	0	--
California	0	0	--	W	W	W	0	0	--
Oregon	W	W	W	W	W	W	0	0	--
Washington	W	W	W	205	266	-22.9%	0	0	--
Pacific Noncontiguous	W	W	W	2,291	2,478	-7.5%	0	0	--
Alaska	W	W	W	70	304	-77.1%	0	0	--
Hawaii	W	W	W	2,222	2,173	2.2%	0	0	--
U.S. Total	161,985	187,575	-13.6%	30,549	31,637	-3.4%	859	1,323	-35.1%

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

Table 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Divison, February 2017 and 2016

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**February 2017**	**February 2016**	**Percentage Change**	**February 2017**	**February 2016**	**February 2017**	**February 2016**
Coal (Thousand Tons)							
New England	1,419	1,722	-17.6%	W	W	W	W
Middle Atlantic	5,294	6,977	-24.1%	0	0	5,294	6,977
East North Central	33,668	40,873	-17.6%	20,129	24,816	13,539	16,057
West North Central	31,021	30,829	0.6%	31,021	30,829	0	0
South Atlantic	28,319	32,678	-13.3%	25,512	30,268	2,806	2,410
East South Central	16,375	17,483	-6.3%	16,375	17,483	0	0
West South Central	25,038	34,536	-27.5%	15,723	21,558	9,315	12,978
Mountain	19,645	20,834	-5.7%	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	**161,985**	**187,575**	**-13.6%**	**128,557**	**146,224**	**33,428**	**41,351**
Petroleum Liquids (Thousand Barrels)							
New England	4,502	4,661	-3.4%	664	674	3,837	3,987
Middle Atlantic	5,503	5,647	-2.6%	2,226	2,130	3,277	3,517
East North Central	1,041	1,184	-12.1%	736	855	304	330
West North Central	918	1,054	-12.9%	894	1,029	24	25
South Atlantic	11,737	11,943	-1.7%	9,375	9,561	2,362	2,382
East South Central	1,953	1,869	4.5%	W	W	W	W
West South Central	1,784	1,873	-4.7%	1,370	1,381	414	492
Mountain	379	411	-8.0%	W	W	W	W
Pacific Contiguous	441	515	-14.3%	341	413	100	102
Pacific Noncontiguous	2,291	2,478	-7.5%	W	W	W	W
U.S. Total	**30,549**	**31,637**	**-3.4%**	**20,096**	**20,670**	**10,453**	**10,967**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	346	262	31.9%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	115	114	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	**859**	**1,323**	**-35.1%**	**W**	**W**	**W**	**W**

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

Table 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2007 - February 2017

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
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	68,537	91,037	4,371	163,946
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	80,108	107,364	4,797	192,269
April	81,927	106,996	5,068	193,991
May	82,822	105,444	5,166	193,432
June	78,959	99,244	5,046	183,248
July	72,162	92,580	4,723	169,465
August	68,469	87,596	4,386	160,452
Sept	67,066	87,009	4,163	158,238
October	68,439	90,327	3,974	162,739
November	71,824	96,101	4,283	172,208
December	68,537	91,037	4,371	163,946
Year 2017, End of Month Stocks				
January	66,155	86,869	4,335	157,359
February	68,479	89,083	4,424	161,985

Notes: See Glossary for definitions.
Values for 2015 and prior years are final. Values for 2016 and 2017 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), 2007 - February 2017

	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												
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	12,332,849	638,564	2.12	40.87	1.35	92.2	100,602	16,610	9.36	56.72	0.48	69.9
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	793,417	40,144	2.16	42.69	1.46	100.3	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 2017												
January	1,081,835	56,573	2.09	40.05	1.26	87.3	9,304	1,546	11.91	71.72	0.46	69.3
February	997,021	52,062	2.07	39.58	1.30	105.8	6,122	1,015	11.61	70.06	0.49	58.6
Year to Date												
2015	2,593,584	134,830	2.27	43.75	1.29	95.2	33,390	5,498	12.67	77.00	0.53	43.0
2016	1,985,755	103,229	2.12	40.74	1.36	89.4	16,901	2,807	7.47	45.05	0.46	57.2
2017	2,078,856	108,635	2.08	39.82	1.28	95.3	15,426	2,561	11.79	71.06	0.47	64.6
Rolling 12 Months Ending in February												
2016	14,478,378	751,329	2.20	42.41	1.30	102.9	131,159	21,630	10.67	64.78	0.47	89.5
2017	12,425,950	643,970	2.11	40.71	1.33	93.2	99,127	16,364	W	W	0.48	71.7

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

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

- Values for 2015 and prior years are final. Values for 2016 and 2017 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), 2007 - February 2017 (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												
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	10,605,977	10,258,688	2.88	2.97	90.3	2.47
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	773,827	749,028	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 2017												
January	7,058	251	2.14	60.16	5.67	57.6	607,841	587,377	4.12	4.27	76.9	2.83
February	7,593	271	2.00	56.03	5.85	81.5	534,117	516,936	3.58	3.69	78.0	2.60
Year to Date												
2015	23,855	840	1.90	53.98	5.25	82.1	1,438,939	1,393,791	4.39	4.53	88.6	3.04
2016	20,912	749	1.33	37.23	5.60	89.6	1,555,970	1,503,509	2.86	2.96	89.3	2.45
2017	14,652	522	2.07	58.01	5.77	67.9	1,141,958	1,104,312	3.87	4.00	77.4	2.72
Rolling 12 Months Ending in February												
2016	135,725	4,806	1.75	49.46	5.30	96.1	10,290,533	9,952,298	3.01	3.12	90.0	2.55
2017	110,675	3,939	1.76	49.50	5.42	75.4	10,191,964	9,859,492	2.99	3.09	88.8	W

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NM = Not meaningful due to large relative standard error or excessive percentage change.
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Notes:
Beginning in January 2013, the threshold for reporting fuel receipts data was changed from 50 megawatts to 200 megawatts of nameplate capacity for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. In addition, the requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The following caveats for each fuel type should be noted:
PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

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- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2007 - February 2017

	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												
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	9,200,962	472,909	2.16	42.09	1.22	94.7	73,050	11,943	9.16	56.02	0.45	76.1
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	110.4	5,220	851	6.69	41.06	0.40	81.4
April	606,778	30,610	2.19	43.51	1.31	106.5	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 2017												
January	783,283	40,654	2.14	41.32	1.15	86.5	6,498	1,069	11.09	67.38	0.44	71.5
February	732,713	38,088	2.11	40.63	1.20	106.1	4,563	754	11.53	69.80	0.46	63.7
Year to Date												
2015	1,876,512	97,021	2.29	44.26	1.17	98.2	17,269	2,831	11.75	71.70	0.52	50.0
2016	1,464,562	75,690	2.17	41.91	1.20	90.7	11,996	1,975	7.42	45.04	0.43	63.8
2017	1,515,996	78,742	2.13	40.99	1.18	95.0	11,061	1,823	11.27	68.38	0.45	68.0
Rolling 12 Months Ending in February												
2016	10,676,680	550,376	2.23	43.37	1.17	104.8	84,768	13,891	10.68	65.17	0.44	86.5
2017	9,252,396	475,962	2.16	41.94	1.21	95.4	72,114	11,791	9.77	59.77	0.46	77.2

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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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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2007 - February 2017 (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												
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	5,059,987	4,892,902	3.15	3.26	96.8	2.54
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	367,760	356,152	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 2017												
January	7,058	251	2.14	60.16	5.67	83.3	288,225	278,482	4.34	4.49	84.7	2.77
February	7,593	271	2.00	56.03	5.85	124.3	250,636	242,634	3.83	3.96	86.2	2.58
Year to Date												
2015	20,126	704	1.84	52.72	5.25	109.2	671,073	650,786	4.40	4.54	95.7	2.89
2016	17,773	634	1.14	31.96	5.59	110.4	749,306	724,424	3.13	3.23	97.2	2.50
2017	14,652	522	2.07	58.01	5.77	100.5	538,861	521,116	4.10	4.24	85.4	2.68
Rolling 12 Months Ending in February												
2016	113,575	3,999	1.66	47.11	5.28	130.8	4,795,981	4,638,678	3.33	3.45	96.3	2.61
2017	96,585	3,426	1.67	47.09	5.40	101.4	4,849,542	4,689,595	3.26	3.37	95.3	2.57

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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 Glossary for definitions.
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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2007 - February 2017

	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												
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 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	68.0
April	174,164	8,980	1.99	38.68	1.99	87.8	1,456	249	W	W	0.50	73.1
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 2017												
January	283,569	15,216	1.93	36.03	1.54	92.4	2,679	456	13.98	82.08	0.47	89.2
February	249,202	13,269	1.90	35.70	1.59	108.7	1,438	241	W	W	0.50	61.6
Year to Date												
2015	673,019	35,790	2.20	41.45	1.60	90.4	15,635	2,589	13.69	82.81	0.50	41.4
2016	494,097	26,324	1.94	36.37	1.83	90.6	4,489	764	7.47	43.98	0.44	55.1
2017	532,772	28,485	1.92	35.87	1.56	99.3	4,117	698	13.23	78.09	0.48	77.2
Rolling 12 Months Ending in February												
2016	3,552,586	189,516	2.06	38.58	1.69	101.1	44,101	7,364	10.58	63.44	0.45	127.8
2017	3,017,767	160,903	1.93	36.25	1.70	90.6	25,363	4,302	W	W	0.48	80.1

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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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- 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, 2007 - February 2017 (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												
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 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 2017												
January	0	0	--	--	--	0.0	260,846	252,069	3.96	4.09	81.2	2.85
February	0	0	--	--	--	0.0	228,800	221,341	3.33	3.44	82.4	W
Year to Date												
2015	1,989	71	2.45	68.33	4.94	54.3	642,967	622,155	4.65	4.81	91.5	W
2016	2,617	96	2.50	67.88	5.57	127.9	684,237	660,582	2.61	2.71	92.8	W
2017	0	0	--	--	--	0.0	489,646	473,410	3.66	3.79	81.8	2.71
Rolling 12 Months Ending in February												
2016	15,179	549	W	W	5.36	75.9	4,724,561	4,568,621	2.66	2.75	93.4	W
2017	10,948	396	W	W	5.41	54.5	4,590,617	4,441,108	2.66	2.74	92.6	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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Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor forms including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2007 - February 2017

	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												
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 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 2017												
January	111	5	W	W	2.99	7.9	0	0	--	--	--	0.0
February	91	4	W	W	2.95	7.9	0	0	--	--	--	0.0
Year to Date												
2015	788	37	2.36	50.18	2.08	19.1	0	0	--	--	--	0.0
2016	262	12	W	W	2.86	7.5	0	0	--	--	--	0.0
2017	202	9	W	W	2.97	7.9	0	0	--	--	--	0.0
Rolling 12 Months Ending in February												
2016	1,913	83	W	W	2.78	11.0	0	0	--	--	--	0.0
2017	1,228	54	W	W	3.06	8.3	0	0	--	--	--	0.0

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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 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2007 - February 2017 (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												
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 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 2017												
January	0	0	--	--	--	0.0	662	639	W	W	5.7	W
February	0	0	--	--	--	0.0	646	624	W	W	6.4	W
Year to Date												
2015	0	0	--	--	--	0.0	931	917	W	W	5.1	W
2016	0	0	--	--	--	0.0	1,729	1,680	W	W	8.6	W
2017	0	0	--	--	--	0.0	1,308	1,263	W	W	6.0	W
Rolling 12 Months Ending in February												
2016	0	0	--	--	--	0.0	7,298	7,134	W	W	6.0	W
2017	0	0	--	--	--	0.0	7,584	7,348	W	W	6.2	W

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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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- 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, 2007 - February 2017

	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												
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 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 2017												
January	14,872	698	W	W	1.31	54.2	128	21	11.64	72.27	1.06	12.4
February	15,014	702	W	W	1.10	64.7	121	19	W	W	1.36	16.5
Year to Date												
2015	43,265	1,982	2.76	60.32	1.39	64.0	485	78	14.61	90.84	1.68	13.0
2016	26,834	1,204	W	W	1.56	41.6	416	68	9.28	57.01	1.24	18.4
2017	29,886	1,400	W	W	1.20	59.0	249	40	11.60	72.26	1.22	14.1
Rolling 12 Months Ending in February												
2016	247,199	11,354	W	W	1.37	67.6	2,289	374	12.45	76.12	1.34	18.3
2017	154,558	7,051	W	W	1.38	51.2	1,650	271	W	W	1.20	14.5

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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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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2007 - February 2017 (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												
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 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 2017												
January	0	0	--	--	--	0.0	58,108	56,186	W	W	49.4	W
February	0	0	--	--	--	0.0	54,035	52,337	W	W	51.1	W
Year to Date												
2015	1,740	64	W	W	5.56	26.6	123,969	119,933	W	W	61.3	W
2016	522	19	W	W	5.98	10.5	120,698	116,823	W	W	56.5	W
2017	0	0	--	--	--	0.0	112,143	108,523	W	W	50.2	W
Rolling 12 Months Ending in February												
2016	6,971	258	W	W	5.52	21.5	762,693	737,866	W	W	59.8	W
2017	3,142	116	W	W	5.81	10.5	744,220	721,441	W	W	57.0	W

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Table 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, February 2017 and 2016
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	54	113	-52.0%	0	0	54	112	0	0	0	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	9	8	22.0%	0	0	9	6	0	0	0	1
Massachusetts	45	105	-57.0%	0	0	45	105	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	1,758	1,874	-6.2%	0	0	1,723	1,846	0	0	36	27
New Jersey	58	32	80.0%	0	0	58	32	0	0	0	0
New York	55	16	240.0%	0	0	30	0	0	0	25	16
Pennsylvania	1,646	1,826	-9.8%	0	0	1,635	1,814	0	0	11	11
East North Central	10,687	10,359	3.2%	6,256	5,836	4,315	4,308	0	0	116	215
Illinois	3,664	3,004	22.0%	877	584	2,670	2,266	0	0	116	154
Indiana	2,118	2,453	-14.0%	1,998	2,281	121	171	0	0	0	0
Michigan	1,241	1,097	13.0%	1,241	1,094	0	0	0	0	0	3
Ohio	2,095	2,523	-17.0%	571	629	1,524	1,870	0	0	0	23
Wisconsin	1,569	1,282	22.0%	1,569	1,247	0	0	0	0	0	35
West North Central	9,780	9,508	2.9%	9,528	9,406	0	0	4	5	248	96
Iowa	1,182	1,371	-14.0%	1,013	1,274	0	0	0	0	168	96
Kansas	1,097	902	22.0%	1,097	902	0	0	0	0	0	0
Minnesota	1,178	1,035	14.0%	1,178	1,035	0	0	0	0	0	0
Missouri	2,976	3,064	-2.9%	2,972	3,058	0	0	4	5	0	0
Nebraska	1,217	1,108	9.8%	1,137	1,108	0	0	0	0	80	0
North Dakota	2,006	1,917	4.6%	2,006	1,917	0	0	0	0	0	0
South Dakota	124	111	12.0%	124	111	0	0	0	0	0	0
South Atlantic	7,320	7,534	-2.8%	6,375	6,654	841	806	0	0	103	74
Delaware	35	35	-0.5%	0	0	35	35	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,199	1,105	8.6%	1,176	1,092	13	13	0	0	11	0
Georgia	1,271	1,187	7.1%	1,258	1,187	0	0	0	0	13	0
Maryland	392	264	48.0%	0	0	374	243	0	0	19	21
North Carolina	1,124	888	27.0%	1,094	888	2	0	0	0	28	0
South Carolina	505	773	-35.0%	497	755	0	0	0	0	8	18
Virginia	495	755	-34.0%	448	682	22	45	0	0	25	27
West Virginia	2,297	2,527	-9.1%	1,901	2,050	396	469	0	0	0	8
East South Central	5,075	5,143	-1.3%	4,791	4,723	187	303	0	0	97	117
Alabama	1,185	1,180	0.4%	1,185	1,180	0	0	0	0	0	0
Kentucky	3,127	3,025	3.4%	3,127	3,025	0	0	0	0	0	0
Mississippi	249	364	-32.0%	62	60	187	303	0	0	0	0
Tennessee	515	575	-10.0%	418	458	0	0	0	0	97	117
West South Central	9,713	7,629	27.0%	4,593	3,711	5,084	3,911	0	0	35	6
Arkansas	1,091	1,088	0.3%	1,053	949	33	132	0	0	5	6
Louisiana	837	498	68.0%	575	466	262	33	0	0	0	0
Oklahoma	889	840	5.8%	775	771	83	69	0	0	30	0
Texas	6,895	5,202	33.0%	2,189	1,525	4,706	3,677	0	0	0	0
Mountain	7,329	7,235	1.3%	6,463	6,464	867	766	0	0	0	6
Arizona	1,288	1,282	0.5%	1,288	1,282	0	0	0	0	0	0
Colorado	1,440	1,330	8.2%	1,440	1,330	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	782	737	6.1%	23	0	758	737	0	0	0	0
Nevada	31	29	7.2%	0	0	31	29	0	0	0	0
New Mexico	872	813	7.3%	872	813	0	0	0	0	0	0
Utah	1,061	1,054	0.7%	1,027	1,049	35	0	0	0	0	6
Wyoming	1,856	1,990	-6.7%	1,813	1,990	43	0	0	0	0	0
Pacific Contiguous	274	380	-28.0%	69	56	139	302	0	0	66	22
California	66	22	201.0%	0	0	0	0	0	0	66	22
Oregon	69	56	23.0%	69	56	0	0	0	0	0	0
Washington	139	302	-54.0%	0	0	139	302	0	0	0	0
Pacific Noncontiguous	72	98	-27.0%	13	35	59	63	0	0	0	0
Alaska	13	35	-62.0%	13	35	0	0	0	0	0	0
Hawaii	59	63	-6.8%	0	0	59	63	0	0	0	0
U.S. Total	52,062	49,873	4.4%	38,088	36,885	13,269	12,416	4	5	702	566

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

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

Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, (Year-to-Date) February 2017 and 2016 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	149	394	-62.0%	45	0	105	391	0	0	0	3
Connecticut	0	85	-100.0%	0	0	0	85	0	0	0	0
Maine	18	18	1.3%	0	0	18	15	0	0	0	3
Massachusetts	87	291	-70.0%	0	0	87	291	0	0	0	0
New Hampshire	45	0	--	45	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	3,770	3,662	3.0%	0	0	3,689	3,598	0	0	82	64
New Jersey	134	101	33.0%	0	0	134	101	0	0	0	0
New York	94	40	133.0%	0	0	45	0	0	0	49	40
Pennsylvania	3,542	3,520	0.6%	0	0	3,509	3,497	0	0	33	23
East North Central	21,831	21,955	-0.6%	12,573	12,196	8,969	9,322	0	0	288	437
Illinois	7,375	6,673	11.0%	1,494	1,127	5,592	5,237	0	0	288	309
Indiana	4,378	5,096	-14.0%	4,132	4,743	246	353	0	0	0	0
Michigan	2,496	2,184	14.0%	2,495	2,175	0	0	0	0	1	10
Ohio	4,231	5,051	-16.0%	1,099	1,271	3,131	3,732	0	0	0	47
Wisconsin	3,351	2,952	14.0%	3,351	2,881	0	0	0	0	0	72
West North Central	20,229	20,010	1.1%	19,736	19,793	0	0	9	12	484	205
Iowa	2,477	2,852	-13.0%	2,135	2,647	0	0	0	0	342	205
Kansas	2,409	2,196	9.7%	2,409	2,196	0	0	0	0	0	0
Minnesota	2,415	2,042	18.0%	2,415	2,042	0	0	0	0	0	0
Missouri	6,237	6,249	-0.2%	6,228	6,237	0	0	9	12	0	0
Nebraska	2,506	2,376	5.4%	2,364	2,376	0	0	0	0	142	0
North Dakota	3,947	4,063	-2.9%	3,947	4,063	0	0	0	0	0	0
South Dakota	238	232	2.6%	238	232	0	0	0	0	0	0
South Atlantic	15,319	14,672	4.4%	13,171	12,915	1,949	1,567	0	0	199	189
Delaware	47	35	33.0%	0	0	47	35	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,495	2,073	20.0%	2,461	2,048	13	25	0	0	21	0
Georgia	2,752	2,299	20.0%	2,732	2,284	0	0	0	0	20	15
Maryland	1,004	509	97.0%	0	0	964	463	0	0	40	46
North Carolina	2,317	1,691	37.0%	2,251	1,691	3	0	0	0	62	0
South Carolina	1,094	1,633	-33.0%	1,082	1,598	0	0	0	0	11	35
Virginia	1,132	1,406	-19.0%	1,031	1,255	57	91	0	0	44	61
West Virginia	4,479	5,025	-11.0%	3,614	4,039	865	953	0	0	0	33
East South Central	10,822	10,175	6.4%	10,267	9,398	369	544	0	0	186	234
Alabama	2,508	2,367	6.0%	2,508	2,367	0	0	0	0	0	0
Kentucky	6,405	5,865	9.2%	6,405	5,865	0	0	0	0	0	0
Mississippi	543	660	-18.0%	174	116	369	544	0	0	0	0
Tennessee	1,367	1,284	6.5%	1,181	1,050	0	0	0	0	186	234
West South Central	20,517	16,505	24.0%	9,401	7,896	11,043	8,597	0	0	73	12
Arkansas	2,400	2,305	4.1%	2,240	1,931	147	362	0	0	12	12
Louisiana	1,768	1,139	55.0%	1,160	1,008	607	131	0	0	0	0
Oklahoma	1,391	1,548	-10.0%	1,156	1,380	174	168	0	0	61	0
Texas	14,959	11,512	30.0%	4,845	3,577	10,114	7,936	0	0	0	0
Mountain	15,251	14,815	2.9%	13,397	13,195	1,854	1,614	0	0	0	6
Arizona	2,411	2,552	-5.5%	2,411	2,552	0	0	0	0	0	0
Colorado	2,804	2,815	-0.4%	2,804	2,815	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1,656	1,542	7.4%	50	0	1,606	1,542	0	0	0	0
Nevada	84	132	-36.0%	0	60	84	72	0	0	0	0
New Mexico	1,961	1,699	15.0%	1,961	1,699	0	0	0	0	0	0
Utah	2,146	2,005	7.1%	2,072	1,999	74	0	0	0	0	6
Wyoming	4,188	4,070	2.9%	4,098	4,070	90	0	0	0	0	0
Pacific Contiguous	658	859	-23.0%	123	235	448	570	0	0	88	54
California	88	54	62.0%	0	0	0	0	0	0	88	54
Oregon	123	235	-48.0%	123	235	0	0	0	0	0	0
Washington	448	570	-21.0%	0	0	448	570	0	0	0	0
Pacific Noncontiguous	89	183	-51.0%	30	61	59	121	0	0	0	0
Alaska	30	61	-51.0%	30	61	0	0	0	0	0	0
Hawaii	59	121	-51.0%	0	0	59	121	0	0	0	0
U.S. Total	108,635	103,229	5.2%	78,742	75,690	28,485	26,324	9	12	1,400	1,204

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

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

Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, February 2017 and 2016
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	57	10	490.0%	2	1	55	8	0	0	0	0
Connecticut	1	2	-50.0%	0	0	1	2	0	0	0	0
Maine	3	4	-15.0%	0	0	3	4	0	0	0	0
Massachusetts	50	1	NM	0	0	50	1	0	0	0	0
New Hampshire	2	1	46.0%	2	1	0	0	0	0	0	0
Rhode Island	0	1	-100.0%	0	0	0	1	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	35	153	-77.0%	15	11	14	142	0	0	7	0
New Jersey	0	2	-91.0%	0	0	0	2	0	0	0	0
New York	17	113	-85.0%	15	11	2	102	0	0	0	0
Pennsylvania	18	38	-52.0%	0	0	12	38	0	0	6	0
East North Central	51	73	-31.0%	33	54	12	16	0	0	5	3
Illinois	9	12	-28.0%	1	1	8	12	0	0	0	0
Indiana	11	17	-34.0%	11	17	0	0	0	0	0	0
Michigan	12	18	-36.0%	9	18	0	0	0	0	2	0
Ohio	19	22	-16.0%	11	15	4	4	0	0	3	3
Wisconsin	0	4	-91.0%	0	4	0	0	0	0	0	0
West North Central	48	32	47.0%	48	32	0	0	0	0	0	0
Iowa	16	10	56.0%	16	10	0	0	0	0	0	0
Kansas	5	0	--	5	0	0	0	0	0	0	0
Minnesota	2	3	-11.0%	2	3	0	0	0	0	0	0
Missouri	10	13	-23.0%	10	13	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	15	7	118.0%	15	7	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	139	333	-58.0%	107	244	24	49	0	0	7	40
Delaware	2	10	-81.0%	0	0	2	10	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	61	23	158.0%	60	23	0	0	0	0	0	0
Georgia	12	25	-52.0%	8	19	0	0	0	0	4	7
Maryland	3	16	-82.0%	0	0	3	16	0	0	0	0
North Carolina	17	27	-38.0%	14	17	0	10	0	0	3	0
South Carolina	6	39	-85.0%	6	10	0	0	0	0	0	29
Virginia	22	172	-87.0%	2	153	19	14	0	0	1	5
West Virginia	17	21	-18.0%	17	21	0	0	0	0	0	0
East South Central	23	31	-23.0%	23	29	0	0	0	0	0	2
Alabama	2	3	-24.0%	2	3	0	0	0	0	0	0
Kentucky	10	12	-15.0%	10	12	0	0	0	0	0	0
Mississippi	1	3	-78.0%	1	3	0	0	0	0	0	0
Tennessee	11	13	-16.0%	10	11	0	0	0	0	0	2
West South Central	25	23	12.0%	6	17	20	5	0	0	0	0
Arkansas	14	10	36.0%	0	10	14	0	0	0	0	0
Louisiana	0	2	-100.0%	0	0	0	2	0	0	0	0
Oklahoma	0	1	-95.0%	0	1	0	0	0	0	0	0
Texas	12	10	13.0%	6	7	6	4	0	0	0	0
Mountain	25	23	7.5%	22	20	2	3	0	0	0	0
Arizona	5	4	12.0%	5	4	0	0	0	0	0	0
Colorado	1	2	-68.0%	1	2	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	3	-20.0%	0	0	2	3	0	0	0	0
Nevada	0	1	-86.0%	0	1	0	0	0	0	0	0
New Mexico	6	10	-38.0%	6	10	0	0	0	0	0	0
Utah	2	1	139.0%	2	1	0	0	0	0	0	0
Wyoming	9	2	337.0%	9	2	0	0	0	0	0	0
Pacific Contiguous	1	0	--	1	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	1	0	--	1	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	611	631	-3.1%	497	545	114	85	0	0	0	0
Alaska	0	1	-71.0%	0	1	0	0	0	0	0	0
Hawaii	611	629	-3.0%	496	544	114	85	0	0	0	0
U.S. Total	1,015	1,307	-22.0%	754	954	241	308	0	0	19	45

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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) February 2017 and 2016
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	180	23	676.0%	4	4	176	19	0	0	0	0
Connecticut	15	5	210.0%	0	0	15	5	0	0	0	0
Maine	84	7	NM	0	0	84	7	0	0	0	0
Massachusetts	78	2	NM	0	0	78	2	0	0	0	0
New Hampshire	4	3	27.0%	4	3	0	0	0	0	0	0
Rhode Island	0	6	-100.0%	0	0	0	6	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	211	199	5.8%	101	13	101	184	0	0	9	2
New Jersey	0	3	-88.0%	0	0	0	3	0	0	0	0
New York	147	135	9.3%	101	13	45	120	0	0	2	2
Pennsylvania	63	61	3.0%	0	0	56	61	0	0	7	0
East North Central	122	208	-41.0%	74	106	42	96	0	0	5	6
Illinois	19	26	-29.0%	1	1	18	26	0	0	0	0
Indiana	28	40	-29.0%	28	40	0	0	0	0	0	0
Michigan	24	35	-33.0%	21	34	0	0	0	0	3	1
Ohio	45	100	-55.0%	18	25	24	71	0	0	3	5
Wisconsin	6	7	-6.0%	6	7	0	0	0	0	0	0
West North Central	90	64	40.0%	90	64	0	0	0	0	0	0
Iowa	21	15	36.0%	21	15	0	0	0	0	0	0
Kansas	15	10	48.0%	15	10	0	0	0	0	0	0
Minnesota	4	5	-12.0%	4	5	0	0	0	0	0	0
Missouri	21	20	5.9%	21	20	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	29	12	144.0%	29	12	0	0	0	0	0	0
South Dakota	0	2	-100.0%	0	2	0	0	0	0	0	0
South Atlantic	302	689	-56.0%	229	431	50	201	0	0	23	57
Delaware	4	32	-87.0%	0	0	4	32	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	77	26	198.0%	74	26	0	0	0	0	3	0
Georgia	36	99	-64.0%	26	58	3	30	0	0	7	11
Maryland	11	51	-78.0%	0	0	11	51	0	0	0	0
North Carolina	79	110	-28.0%	73	49	1	61	0	0	5	0
South Carolina	17	65	-74.0%	14	25	0	0	0	0	3	40
Virginia	42	260	-84.0%	6	228	31	27	0	0	5	6
West Virginia	36	47	-22.0%	36	47	0	0	0	0	0	0
East South Central	77	102	-25.0%	71	90	4	10	0	0	2	3
Alabama	11	31	-66.0%	7	21	4	10	0	0	0	0
Kentucky	32	27	18.0%	32	27	0	0	0	0	0	0
Mississippi	5	11	-59.0%	5	11	0	0	0	0	0	0
Tennessee	30	33	-9.1%	28	30	0	0	0	0	2	3
West South Central	41	29	40.0%	8	22	33	7	0	0	0	0
Arkansas	21	11	87.0%	2	11	20	1	0	0	0	0
Louisiana	0	2	-100.0%	0	0	0	2	0	0	0	0
Oklahoma	1	1	-20.0%	1	1	0	0	0	0	0	0
Texas	19	14	30.0%	6	11	13	4	0	0	0	0
Mountain	52	52	-1.4%	49	48	3	4	0	0	0	0
Arizona	12	9	44.0%	12	9	0	0	0	0	0	0
Colorado	1	3	-83.0%	1	3	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	4	-42.0%	0	0	2	4	0	0	0	0
Nevada	1	4	-79.0%	0	3	1	1	0	0	0	0
New Mexico	17	17	2.7%	17	17	0	0	0	0	0	0
Utah	9	5	94.0%	9	5	0	0	0	0	0	0
Wyoming	10	12	-18.0%	10	12	0	0	0	0	0	0
Pacific Contiguous	12	0	--	7	0	5	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	7	0	--	7	0	0	0	0	0	0	0
Washington	5	0	--	0	0	5	0	0	0	0	0
Pacific Noncontiguous	1,475	1,439	2.5%	1,191	1,198	284	241	0	0	0	0
Alaska	0	2	-86.0%	0	2	0	0	0	0	0	0
Hawaii	1,475	1,437	2.6%	1,190	1,195	284	241	0	0	0	0
U.S. Total	2,561	2,807	-8.8%	1,823	1,975	698	764	0	0	40	68

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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, February 2017 and 2016
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
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	29	127	-77.0%	29	75	0	47	0	0	0	4
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	51	-100.0%	0	51	0	0	0	0	0	0
Michigan	26	24	12.0%	26	24	0	0	0	0	0	0
Ohio	0	47	-100.0%	0	0	0	47	0	0	0	0
Wisconsin	3	5	-46.0%	3	1	0	0	0	0	0	4
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	39	129	-70.0%	39	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	39	129	-70.0%	39	129	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	27	11	144.0%	27	11	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	27	11	144.0%	27	11	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	176	141	25.0%	176	141	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	176	141	25.0%	176	141	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	271	408	-34.0%	271	356	0	47	0	0	0	4

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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 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) February 2017 and 2016
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 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	76	242	-69.0%	76	135	0	96	0	0	0	11
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	109	-100.0%	0	109	0	0	0	0	0	0
Michigan	71	24	201.0%	71	24	0	0	0	0	0	0
Ohio	0	96	-100.0%	0	0	0	96	0	0	0	0
Wisconsin	5	13	-60.0%	5	2	0	0	0	0	0	11
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	75	207	-64.0%	75	200	0	0	0	0	0	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	75	200	-62.0%	75	200	0	0	0	0	0	0
Georgia	0	8	-100.0%	0	0	0	0	0	0	0	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	48	47	0.7%	48	47	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	48	47	0.7%	48	47	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	323	252	28.0%	323	252	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	323	252	28.0%	323	252	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	522	749	-30.0%	522	634	0	96	0	0	0	19

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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, February 2017 and 2016
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	18,633	24,385	-24.0%	1	21	18,632	24,364	0	0	0	0
Connecticut	7,864	9,432	-17.0%	0	0	7,864	9,432	0	0	0	0
Maine	2	1,911	-100.0%	0	0	2	1,911	0	0	0	0
Massachusetts	9,105	9,368	-2.8%	0	21	9,105	9,347	0	0	0	0
New Hampshire	898	1,150	-22.0%	1	0	897	1,150	0	0	0	0
Rhode Island	763	2,524	-70.0%	0	0	763	2,524	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	58,348	78,105	-25.0%	5,892	6,942	52,105	70,930	0	0	351	234
New Jersey	8,482	19,828	-57.0%	0	0	8,482	19,828	0	0	0	0
New York	21,714	26,582	-18.0%	5,892	6,942	15,742	19,511	0	0	79	129
Pennsylvania	28,153	31,696	-11.0%	0	0	27,880	31,591	0	0	273	105
East North Central	42,453	64,102	-34.0%	15,338	28,059	25,223	34,871	574	395	1,319	777
Illinois	5,488	8,049	-32.0%	9	386	5,473	7,661	0	0	6	1
Indiana	8,627	11,250	-23.0%	6,711	8,696	1,915	2,555	0	0	0	0
Michigan	10,957	16,251	-33.0%	1,668	4,449	8,110	10,931	574	395	605	476
Ohio	13,567	18,813	-28.0%	3,665	5,351	9,463	13,438	0	0	439	24
Wisconsin	3,814	9,738	-61.0%	3,284	9,177	261	286	0	0	269	275
West North Central	1,229	10,524	-88.0%	1,023	9,216	0	1,226	50	82	156	0
Iowa	226	2,302	-90.0%	83	2,302	0	0	0	0	143	0
Kansas	551	500	10.0%	551	500	0	0	0	0	0	0
Minnesota	20	4,871	-100.0%	7	4,190	0	680	0	0	13	0
Missouri	230	2,099	-89.0%	181	1,472	0	546	50	82	0	0
Nebraska	71	91	-22.0%	71	91	0	0	0	0	0	0
North Dakota	130	140	-6.7%	130	140	0	0	0	0	0	0
South Dakota	0	521	-100.0%	0	521	0	0	0	0	0	0
South Atlantic	146,743	166,326	-12.0%	126,889	139,348	17,102	23,947	0	0	2,752	3,031
Delaware	1,760	3,194	-45.0%	0	0	1,760	2,099	0	0	0	1,094
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	65,380	77,712	-16.0%	64,812	73,768	308	3,943	0	0	261	0
Georgia	25,539	26,710	-4.4%	20,189	21,213	4,584	4,487	0	0	766	1,010
Maryland	2,420	2,241	8.0%	0	0	2,223	2,088	0	0	197	152
North Carolina	21,186	24,787	-15.0%	18,924	22,605	2,176	2,182	0	0	86	0
South Carolina	7,680	7,685	-0.1%	7,235	6,529	361	1,020	0	0	85	136
Virginia	22,097	23,730	-6.9%	15,719	15,219	5,666	7,925	0	0	712	585
West Virginia	680	268	153.0%	9	13	24	203	0	0	647	52
East South Central	43,989	67,423	-35.0%	28,354	45,489	14,235	21,606	0	0	1,400	328
Alabama	19,966	27,797	-28.0%	7,989	8,633	11,977	19,164	0	0	0	0
Kentucky	1,471	3,698	-60.0%	1,471	3,698	0	0	0	0	0	0
Mississippi	16,283	29,275	-44.0%	14,025	26,833	2,258	2,442	0	0	0	0
Tennessee	6,269	6,653	-5.8%	4,869	6,325	0	0	0	0	1,400	328
West South Central	132,615	196,737	-33.0%	23,492	54,288	65,996	95,047	0	0	43,127	47,403
Arkansas	4,295	6,069	-29.0%	1	3,079	4,143	2,762	0	0	151	228
Louisiana	29,712	41,999	-29.0%	12,281	19,338	1,999	4,923	0	0	15,432	17,738
Oklahoma	9,787	16,288	-40.0%	6,313	12,293	3,387	3,995	0	0	87	0
Texas	88,820	132,380	-33.0%	4,897	19,578	56,467	83,366	0	0	27,457	29,436
Mountain	29,540	42,892	-31.0%	25,150	34,844	4,323	8,038	0	0	66	10
Arizona	5,318	12,256	-57.0%	3,830	8,334	1,487	3,922	0	0	0	0
Colorado	5,251	6,035	-13.0%	4,452	5,076	799	959	0	0	0	0
Idaho	0	2,256	-100.0%	0	1,292	0	964	0	0	0	0
Montana	199	0	--	199	0	0	0	0	0	0	0
Nevada	11,629	13,277	-12.0%	11,629	13,277	0	0	0	0	0	0
New Mexico	4,611	5,269	-12.0%	2,678	3,093	1,933	2,176	0	0	0	0
Utah	2,510	3,791	-34.0%	2,340	3,764	104	18	0	0	66	10
Wyoming	23	7	205.0%	23	7	0	0	0	0	0	0
Pacific Contiguous	43,261	57,915	-25.0%	16,370	23,896	23,724	30,711	0	0	3,167	3,308
California	37,834	42,850	-12.0%	14,588	16,812	20,079	22,730	0	0	3,167	3,308
Oregon	4,351	9,240	-53.0%	706	3,335	3,645	5,905	0	0	0	0
Washington	1,076	5,825	-82.0%	1,076	3,749	0	2,076	0	0	0	0
Pacific Noncontiguous	124	1,129	-89.0%	124	1,129	0	0	0	0	0	0
Alaska	124	1,129	-89.0%	124	1,129	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	516,936	709,538	-27.0%	242,634	343,232	221,341	310,739	624	477	52,337	55,089

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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.

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) February 2017 and 2016
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	40,516	50,924	-20.0%	2	36	40,514	50,888	0	0	0	0
Connecticut	17,799	19,727	-9.8%	0	0	17,799	19,727	0	0	0	0
Maine	4	4,411	-100.0%	0	0	4	4,411	0	0	0	0
Massachusetts	19,128	18,469	3.6%	0	35	19,128	18,434	0	0	0	0
New Hampshire	2,008	3,354	-40.0%	2	0	2,006	3,353	0	0	0	0
Rhode Island	1,577	4,963	-68.0%	0	0	1,577	4,963	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	125,102	158,583	-21.0%	12,524	14,212	112,081	143,934	0	0	497	437
New Jersey	19,038	42,151	-55.0%	0	0	19,038	42,151	0	0	0	0
New York	46,787	53,158	-12.0%	12,524	14,212	34,111	38,731	0	0	153	216
Pennsylvania	59,276	63,274	-6.3%	0	0	58,932	63,052	0	0	344	222
East North Central	89,339	130,175	-31.0%	32,599	57,071	52,922	70,079	1,153	1,504	2,665	1,521
Illinois	10,273	15,470	-34.0%	31	578	10,228	14,887	0	0	14	5
Indiana	18,480	23,839	-22.0%	14,482	18,722	3,998	5,117	0	0	0	0
Michigan	24,492	32,597	-25.0%	4,111	8,566	18,062	21,716	1,153	1,504	1,165	812
Ohio	28,120	38,599	-27.0%	7,260	10,855	19,936	27,661	0	0	925	82
Wisconsin	7,974	19,670	-59.0%	6,714	18,350	699	699	0	0	561	621
West North Central	3,025	21,266	-86.0%	2,447	18,650	0	2,438	110	176	469	2
Iowa	637	4,556	-86.0%	187	4,554	0	0	0	0	450	2
Kansas	1,390	1,152	21.0%	1,390	1,152	0	0	0	0	0	0
Minnesota	43	10,017	-100.0%	23	8,710	0	1,307	1	0	19	0
Missouri	563	4,204	-87.0%	455	2,898	0	1,131	108	176	0	0
Nebraska	181	165	10.0%	181	165	0	0	0	0	0	0
North Dakota	210	227	-7.3%	210	227	0	0	0	0	0	0
South Dakota	0	946	-100.0%	0	946	0	0	0	0	0	0
South Atlantic	293,782	342,101	-14.0%	255,944	288,727	32,339	46,952	0	0	5,499	6,422
Delaware	3,195	6,114	-48.0%	0	0	3,195	3,989	0	0	0	2,125
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	134,094	161,911	-17.0%	133,266	154,618	397	7,293	0	0	431	0
Georgia	52,214	56,708	-7.9%	41,452	44,705	9,277	9,789	0	0	1,485	2,215
Maryland	2,822	3,488	-19.0%	0	0	2,409	3,182	0	0	413	306
North Carolina	42,659	48,047	-11.0%	37,977	43,580	4,526	4,467	0	0	155	0
South Carolina	14,305	17,367	-18.0%	13,003	15,446	1,070	1,589	0	0	233	332
Virginia	42,967	47,975	-10.0%	30,135	30,334	11,419	16,294	0	0	1,413	1,347
West Virginia	1,526	490	212.0%	112	44	46	349	0	0	1,369	97
East South Central	99,277	144,274	-31.0%	66,101	96,674	30,393	46,574	0	0	2,783	1,026
Alabama	42,253	59,780	-29.0%	16,864	18,462	25,389	41,317	0	0	0	0
Kentucky	4,081	9,284	-56.0%	3,876	9,077	205	207	0	0	0	0
Mississippi	40,614	61,505	-34.0%	35,814	56,456	4,799	5,050	0	0	0	0
Tennessee	12,329	13,706	-10.0%	9,546	12,680	0	0	0	0	2,783	1,026
West South Central	278,852	428,411	-35.0%	49,442	118,861	139,151	208,882	0	0	90,258	100,668
Arkansas	6,023	14,947	-60.0%	7	7,819	5,601	6,614	0	0	415	514
Louisiana	61,471	87,651	-30.0%	23,568	41,594	4,366	10,025	0	0	33,536	36,032
Oklahoma	23,183	38,009	-39.0%	15,072	27,349	7,957	10,660	0	0	153	0
Texas	188,176	287,804	-35.0%	10,794	42,099	121,228	181,583	0	0	56,154	64,122
Mountain	72,076	95,049	-24.0%	62,032	76,464	9,911	18,571	0	0	133	14
Arizona	14,981	27,386	-45.0%	11,512	18,148	3,468	9,238	0	0	0	0
Colorado	12,914	13,683	-5.6%	10,861	11,257	2,053	2,426	0	0	0	0
Idaho	0	4,983	-100.0%	0	2,760	0	2,223	0	0	0	0
Montana	448	0	--	448	0	0	0	0	0	0	0
Nevada	26,244	29,552	-11.0%	26,244	29,552	0	0	0	0	0	0
New Mexico	10,452	11,355	-7.9%	6,205	6,689	4,248	4,666	0	0	0	0
Utah	6,924	8,080	-14.0%	6,649	8,048	142	18	0	0	133	14
Wyoming	112	10	NM	112	10	0	0	0	0	0	0
Pacific Contiguous	102,075	130,284	-22.0%	39,756	51,287	56,099	72,264	0	0	6,220	6,734
California	84,888	96,727	-12.0%	32,836	35,675	45,832	54,318	0	0	6,220	6,734
Oregon	12,726	19,557	-35.0%	2,459	7,197	10,267	12,360	0	0	0	0
Washington	4,461	14,000	-68.0%	4,461	8,414	0	5,586	0	0	0	0
Pacific Noncontiguous	270	2,442	-89.0%	270	2,442	0	0	0	0	0	0
Alaska	270	2,442	-89.0%	270	2,442	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,104,312	1,503,509	-27.0%	521,116	724,424	473,410	660,582	1,263	1,680	108,523	116,823

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

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, February 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.06	2.13	-3.3%	--	--	2.06	2.13
New Jersey	W	W	W	--	--	W	W
New York	W	--	W	--	--	W	--
Pennsylvania	2.00	W	W	--	--	2.00	W
East North Central	2.01	2.09	-3.8%	2.09	2.18	1.88	1.97
Illinois	1.80	W	W	1.87	2.02	1.77	W
Indiana	W	W	W	2.14	2.25	W	W
Michigan	2.24	2.35	-4.7%	2.24	2.35	--	--
Ohio	W	2.08	W	1.76	1.95	W	2.12
Wisconsin	2.20	2.12	3.8%	2.20	2.12	--	--
West North Central	1.74	1.73	0.6%	1.74	1.73	--	--
Iowa	1.70	1.58	7.6%	1.70	1.58	--	--
Kansas	1.69	1.76	-4.0%	1.69	1.76	--	--
Minnesota	2.10	2.10	0.0%	2.10	2.10	--	--
Missouri	1.85	1.88	-1.6%	1.85	1.88	--	--
Nebraska	1.38	1.35	2.2%	1.38	1.35	--	--
North Dakota	1.52	1.51	0.7%	1.52	1.51	--	--
South Dakota	2.29	2.14	7.0%	2.29	2.14	--	--
South Atlantic	2.67	2.74	-2.6%	2.70	2.80	2.44	2.28
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.00	2.98	W	W
Georgia	2.80	2.96	-5.4%	2.80	2.96	--	--
Maryland	2.87	2.55	13.0%	--	--	2.87	2.55
North Carolina	W	3.16	W	2.94	3.16	W	--
South Carolina	3.39	3.22	5.3%	3.39	3.22	--	--
Virginia	W	W	W	2.66	2.98	W	W
West Virginia	W	W	W	2.18	2.26	W	W
East South Central	W	W	W	2.06	2.22	W	W
Alabama	2.22	2.47	-10.0%	2.22	2.47	--	--
Kentucky	1.97	2.12	-7.1%	1.97	2.12	--	--
Mississippi	W	W	W	2.78	2.80	W	W
Tennessee	2.26	2.19	3.2%	2.26	2.19	--	--
West South Central	1.94	1.90	2.1%	2.17	2.18	1.72	1.60
Arkansas	W	W	W	2.29	2.30	W	W
Louisiana	W	W	W	2.39	2.63	W	W
Oklahoma	W	W	W	1.95	1.94	W	W
Texas	1.83	1.73	5.8%	2.14	2.10	1.68	1.57
Mountain	W	W	W	1.88	1.80	W	W
Arizona	2.32	2.19	5.9%	2.32	2.19	--	--
Colorado	1.78	1.84	-3.3%	1.78	1.84	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.72	--	W	W
Nevada	W	W	W	--	--	W	W
New Mexico	1.66	1.71	-2.9%	1.66	1.71	--	--
Utah	1.98	1.94	2.1%	1.98	1.94	--	--
Wyoming	W	1.44	W	1.67	1.44	W	--
Pacific Contiguous	W	W	W	2.56	2.35	W	W
California	--	--	--	--	--	--	--
Oregon	2.56	2.35	8.9%	2.56	2.35	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.04	3.11	W	W
Alaska	3.04	3.11	-2.3%	3.04	3.11	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.06	2.10	-1.9%	2.11	2.16	1.90	1.93

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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) February 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	W	W	W	4.34	--	W	W
Connecticut	--	W	W	--	--	--	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.34	--	--	4.34	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.07	2.14	-3.3%	--	--	2.07	2.14
New Jersey	W	W	W	--	--	W	W
New York	W	--	W	--	--	W	--
Pennsylvania	2.00	W	W	--	--	2.00	W
East North Central	2.02	2.10	-3.8%	2.12	2.20	1.88	1.98
Illinois	1.80	W	W	1.88	2.02	1.78	W
Indiana	W	W	W	2.15	2.27	W	W
Michigan	2.26	2.35	-3.8%	2.26	2.35	--	--
Ohio	W	2.10	W	1.77	2.00	W	2.13
Wisconsin	2.24	2.12	5.7%	2.24	2.12	--	--
West North Central	1.76	1.71	2.9%	1.76	1.71	--	--
Iowa	1.69	1.58	7.0%	1.69	1.58	--	--
Kansas	1.69	1.72	-1.7%	1.69	1.72	--	--
Minnesota	2.10	2.12	-0.9%	2.10	2.12	--	--
Missouri	1.89	1.88	0.5%	1.89	1.88	--	--
Nebraska	1.37	1.35	1.5%	1.37	1.35	--	--
North Dakota	1.57	1.47	6.8%	1.57	1.47	--	--
South Dakota	2.28	2.19	4.1%	2.28	2.19	--	--
South Atlantic	2.71	2.74	-1.1%	2.73	2.80	2.58	2.29
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.03	2.97	W	W
Georgia	2.76	2.89	-4.5%	2.76	2.89	--	--
Maryland	2.92	2.55	15.0%	--	--	2.92	2.55
North Carolina	W	3.14	W	2.99	3.14	W	--
South Carolina	3.33	3.29	1.2%	3.33	3.29	--	--
Virginia	W	W	W	2.67	2.94	W	W
West Virginia	W	W	W	2.19	2.30	W	W
East South Central	W	W	W	2.07	2.22	W	W
Alabama	2.17	2.42	-10.0%	2.17	2.42	--	--
Kentucky	1.97	2.13	-7.5%	1.97	2.13	--	--
Mississippi	W	W	W	2.97	2.78	W	W
Tennessee	2.23	2.24	-0.4%	2.23	2.24	--	--
West South Central	1.92	1.92	0.0%	2.15	2.21	1.71	1.63
Arkansas	W	W	W	2.16	2.29	W	W
Louisiana	W	W	W	2.42	2.66	W	W
Oklahoma	W	W	W	1.91	1.98	W	W
Texas	1.83	1.76	4.0%	2.14	2.12	1.67	1.59
Mountain	W	W	W	1.91	1.88	W	W
Arizona	2.25	2.20	2.3%	2.25	2.20	--	--
Colorado	1.80	1.83	-1.6%	1.80	1.83	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.74	--	W	W
Nevada	W	W	W	--	1.96	W	W
New Mexico	1.95	2.06	-5.3%	1.95	2.06	--	--
Utah	1.96	1.94	1.0%	1.96	1.94	--	--
Wyoming	W	1.58	W	1.72	1.58	W	--
Pacific Contiguous	W	W	W	2.43	2.32	W	W
California	--	--	--	--	--	--	--
Oregon	2.43	2.32	4.7%	2.43	2.32	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	2.95	3.13	W	W
Alaska	2.95	3.13	-5.8%	2.95	3.13	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.07	2.11	-1.9%	2.13	2.17	1.92	1.94

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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, February 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016
New England	W	W	W	14.40	9.37	W	W
Connecticut	W	8.70	W	--	--	W	8.70
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	14.40	9.37	54.0%	14.40	9.37	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	10.84	6.40	69.0%	9.22	8.29	12.77	6.26
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	9.22	8.29	W	W
Pennsylvania	W	8.25	W	--	--	W	8.25
East North Central	12.61	8.68	45.0%	12.60	8.57	12.64	9.04
Illinois	W	W	W	12.04	8.66	W	W
Indiana	12.49	8.44	48.0%	12.49	8.44	--	--
Michigan	11.73	8.24	42.0%	11.73	8.24	--	--
Ohio	W	W	W	13.48	9.06	W	W
Wisconsin	12.34	8.82	40.0%	12.34	8.82	--	--
West North Central	12.10	7.89	53.0%	12.10	7.89	--	--
Iowa	11.96	8.24	45.0%	11.96	8.24	--	--
Kansas	12.06	--	--	12.06	--	--	--
Minnesota	12.11	9.01	34.0%	12.11	9.01	--	--
Missouri	12.29	8.07	52.0%	12.29	8.07	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	12.14	6.59	84.0%	12.14	6.59	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	13.10	7.73	69.0%	12.76	7.58	14.62	8.66
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	12.67	8.86	43.0%	12.67	8.86	--	--
Georgia	12.19	8.07	51.0%	12.19	8.07	--	--
Maryland	W	7.49	W	--	--	W	7.49
North Carolina	12.56	W	W	12.56	8.22	--	W
South Carolina	13.18	9.26	42.0%	13.18	9.26	--	--
Virginia	W	W	W	13.36	7.00	W	W
West Virginia	13.36	9.04	48.0%	13.36	9.04	--	--
East South Central	12.49	8.23	52.0%	12.49	8.23	--	--
Alabama	12.53	9.28	35.0%	12.53	9.28	--	--
Kentucky	12.65	8.31	52.0%	12.65	8.31	--	--
Mississippi	12.45	7.99	56.0%	12.45	7.99	--	--
Tennessee	12.34	7.94	55.0%	12.34	7.94	--	--
West South Central	12.84	7.64	68.0%	12.50	7.86	12.94	6.89
Arkansas	W	7.66	W	--	7.66	W	--
Louisiana	--	W	W	--	--	--	W
Oklahoma	16.31	9.12	79.0%	16.31	9.12	--	--
Texas	W	W	W	12.48	8.05	W	W
Mountain	W	W	W	13.74	9.00	W	W
Arizona	14.56	9.03	61.0%	14.56	9.03	--	--
Colorado	12.47	8.71	43.0%	12.47	8.71	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	9.62	W	W
New Mexico	13.39	8.81	52.0%	13.39	8.81	--	--
Utah	14.65	5.90	148.0%	14.65	5.90	--	--
Wyoming	13.47	10.74	25.0%	13.47	10.74	--	--
Pacific Contiguous	13.51	--	--	13.51	--	--	--
California	--	--	--	--	--	--	--
Oregon	13.51	--	--	13.51	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	W	W	W	11.08	6.23	W	W
Alaska	17.09	11.77	45.0%	17.09	11.77	--	--
Hawaii	W	W	W	11.08	6.22	W	W
U.S. Total	W	6.92	W	11.53	6.92	W	6.92

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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) February 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	W	9.88	W	14.26	9.78	W	9.90
Connecticut	W	8.43	W	--	--	W	8.43
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	22.24	W	W
New Hampshire	14.26	9.26	54.0%	14.26	9.26	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	13.74	W	W	9.44	8.18	18.26	W
New Jersey	W	W	W	--	--	W	W
New York	W	6.19	W	9.44	8.18	W	5.99
Pennsylvania	W	8.18	W	--	--	W	8.18
East North Central	12.59	8.47	49.0%	12.51	8.59	12.72	8.33
Illinois	12.82	W	W	12.04	8.66	12.85	W
Indiana	12.35	8.54	45.0%	12.35	8.54	--	--
Michigan	11.90	7.95	50.0%	11.90	7.95	--	--
Ohio	13.03	W	W	13.58	8.61	12.63	W
Wisconsin	12.29	11.99	2.5%	12.29	11.99	--	--
West North Central	12.15	7.79	56.0%	12.15	7.79	--	--
Iowa	12.05	8.12	48.0%	12.05	8.12	--	--
Kansas	12.26	7.68	60.0%	12.26	7.68	--	--
Minnesota	12.44	9.33	33.0%	12.44	9.33	--	--
Missouri	12.49	8.07	55.0%	12.49	8.07	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	11.86	6.47	83.0%	11.86	6.47	--	--
South Dakota	--	7.54	--	--	7.54	--	--
South Atlantic	12.78	W	W	12.50	8.08	14.08	W
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	12.44	8.80	41.0%	12.44	8.80	--	--
Georgia	W	7.93	W	11.98	8.11	W	7.60
Maryland	11.63	6.65	75.0%	--	--	11.63	6.65
North Carolina	W	W	W	12.41	7.92	W	W
South Carolina	13.00	9.38	39.0%	13.00	9.38	--	--
Virginia	W	W	W	12.75	7.65	W	W
West Virginia	12.92	9.28	39.0%	12.92	9.28	--	--
East South Central	W	W	W	12.38	7.89	W	W
Alabama	W	W	W	13.50	7.83	W	W
Kentucky	12.31	8.15	51.0%	12.31	8.15	--	--
Mississippi	12.23	7.75	58.0%	12.23	7.75	--	--
Tennessee	12.23	7.76	58.0%	12.23	7.76	--	--
West South Central	12.87	8.02	60.0%	12.48	8.04	12.96	7.96
Arkansas	W	W	W	12.09	7.65	W	W
Louisiana	--	W	W	--	--	--	W
Oklahoma	13.46	10.77	25.0%	13.46	10.77	--	--
Texas	W	W	W	12.48	8.19	W	W
Mountain	W	W	W	13.19	9.78	W	W
Arizona	13.81	11.41	21.0%	13.81	11.41	--	--
Colorado	12.47	10.02	24.0%	12.47	10.02	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	11.08	W	W
New Mexico	12.93	8.66	49.0%	12.93	8.66	--	--
Utah	12.82	7.73	66.0%	12.82	7.73	--	--
Wyoming	13.25	10.67	24.0%	13.25	10.67	--	--
Pacific Contiguous	W	--	W	13.51	--	W	--
California	--	--	--	--	--	--	--
Oregon	13.51	--	--	13.51	--	--	--
Washington	W	--	W	--	--	W	--
Pacific Noncontiguous	W	W	W	10.91	6.92	W	W
Alaska	17.09	11.49	49.0%	17.09	11.49	--	--
Hawaii	W	W	W	10.91	6.92	W	W
U.S. Total	11.80	7.43	59.0%	11.27	7.42	13.23	7.47

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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, February 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.51	W	W	1.51	1.07	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.48	1.27	17.0%	1.48	1.27	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.80	1.70	5.9%	1.80	1.70	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.74	1.16	136.0%	2.74	1.16	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.74	1.16	136.0%	2.74	1.16	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.52	1.59	-4.4%	1.52	1.59	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.52	1.59	-4.4%	1.52	1.59	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.98	1.10	80.0%	1.98	1.10	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.98	1.10	80.0%	1.98	1.10	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.00	W	W	2.00	1.13	--	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:
See Glossary for definitions. Values are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

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

Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) February 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.50	W	W	1.50	1.02	--	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.48	1.27	17.0%	1.48	1.27	--	--
Ohio	--	W	W	--	--	--	W
Wisconsin	1.78	1.73	2.9%	1.78	1.73	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.89	1.18	145.0%	2.89	1.18	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.89	1.18	145.0%	2.89	1.18	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.50	1.61	-6.8%	1.50	1.61	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.50	1.61	-6.8%	1.50	1.61	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.08	1.09	91.0%	2.08	1.09	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.08	1.09	91.0%	2.08	1.09	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.07	1.31	58.0%	2.07	1.14	--	2.50

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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:
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See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
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, February 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	February 2017	February 2016	Percentage Change	February 2017	February 2016	February 2017	February 2016
New England	W	4.19	W	9.69	4.35	W	4.19
Connecticut	5.67	5.48	3.5%	--	--	5.67	5.48
Maine	W	W	W	--	--	W	W
Massachusetts	W	3.35	W	--	4.35	W	3.35
New Hampshire	W	W	W	9.69	5.71	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.64	2.73	33.0%	4.67	3.60	3.50	2.63
New Jersey	3.51	2.74	28.0%	--	--	3.51	2.74
New York	4.39	3.30	33.0%	4.67	3.60	4.26	3.18
Pennsylvania	3.10	2.24	38.0%	--	--	3.10	2.24
East North Central	3.08	2.25	37.0%	3.04	2.41	3.10	2.12
Illinois	W	W	W	4.61	2.87	W	W
Indiana	W	W	W	2.83	2.50	W	W
Michigan	3.07	2.30	33.0%	3.16	2.43	3.06	2.24
Ohio	3.07	1.88	63.0%	2.89	1.88	3.14	1.88
Wisconsin	W	W	W	3.57	2.60	W	W
West North Central	4.48	W	W	4.48	2.75	--	W
Iowa	4.61	2.44	89.0%	4.61	2.44	--	--
Kansas	4.65	4.10	13.0%	4.65	4.10	--	--
Minnesota	3.40	W	W	3.40	3.00	--	W
Missouri	3.01	W	W	3.01	2.38	--	W
Nebraska	6.12	2.66	130.0%	6.12	2.66	--	--
North Dakota	4.80	2.23	115.0%	4.80	2.23	--	--
South Dakota	--	1.96	--	--	1.96	--	--
South Atlantic	3.98	3.43	16.0%	4.05	3.52	3.26	2.61
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	4.29	W	W	4.29	3.88	--	W
Georgia	W	W	W	3.42	2.57	W	W
Maryland	3.99	5.32	-25.0%	--	--	3.99	5.32
North Carolina	W	W	W	4.07	3.61	W	W
South Carolina	W	W	W	3.33	3.00	W	W
Virginia	W	W	W	4.15	3.21	W	W
West Virginia	W	1.91	W	2.95	1.95	W	1.91
East South Central	3.35	2.36	42.0%	3.41	2.39	3.19	2.26
Alabama	W	W	W	3.44	2.51	W	W
Kentucky	5.90	3.31	78.0%	5.90	3.31	--	--
Mississippi	W	W	W	3.25	2.25	W	W
Tennessee	3.08	2.31	33.0%	3.08	2.31	--	--
West South Central	3.06	2.15	42.0%	3.27	2.29	2.97	2.06
Arkansas	W	W	W	2.74	2.00	W	W
Louisiana	W	W	W	3.14	2.29	W	W
Oklahoma	W	W	W	3.40	2.30	W	W
Texas	3.03	2.13	42.0%	3.43	2.32	2.99	2.08
Mountain	W	W	W	3.82	2.71	W	W
Arizona	W	W	W	4.57	2.80	W	W
Colorado	W	W	W	3.86	3.10	W	W
Idaho	--	2.25	--	--	2.25	--	--
Montana	2.19	--	--	2.19	--	--	--
Nevada	3.66	2.67	37.0%	3.66	2.67	--	--
New Mexico	3.48	2.43	43.0%	3.48	2.43	--	--
Utah	W	W	W	3.78	2.45	W	W
Wyoming	W	7.56	W	6.13	7.56	W	--
Pacific Contiguous	3.82	2.69	42.0%	4.23	3.12	3.52	2.31
California	W	2.77	W	4.23	3.26	W	2.40
Oregon	W	W	W	2.84	2.04	W	W
Washington	5.11	W	W	5.11	3.59	--	W
Pacific Noncontiguous	8.09	6.40	26.0%	8.09	6.40	--	--
Alaska	8.09	6.40	26.0%	8.09	6.40	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.62	2.74	32.0%	3.83	2.96	3.33	2.43

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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:
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See Technical Notes for a discussion of the sample design for the Form EIA-923.
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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) February 2017 and 2016
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	February 2017 YTD	February 2016 YTD	Percentage Change	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	W	4.71	W	8.74	4.86	W	4.71
Connecticut	6.93	5.73	21.0%	--	--	6.93	5.73
Maine	W	W	W	--	--	W	W
Massachusetts	W	3.91	W	--	4.87	W	3.91
New Hampshire	W	W	W	8.74	3.68	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	4.07	2.88	41.0%	5.34	3.81	3.90	2.77
New Jersey	3.74	2.83	32.0%	--	--	3.74	2.83
New York	4.84	3.47	39.0%	5.34	3.81	4.61	3.33
Pennsylvania	3.56	2.41	48.0%	--	--	3.56	2.41
East North Central	3.35	2.37	41.0%	3.36	2.53	3.34	2.23
Illinois	W	W	W	5.17	3.17	W	W
Indiana	W	W	W	3.21	2.62	W	W
Michigan	3.32	2.44	36.0%	3.50	2.57	3.28	2.38
Ohio	3.36	1.98	70.0%	3.15	2.02	3.43	1.96
Wisconsin	W	W	W	3.83	2.71	W	W
West North Central	4.56	W	W	4.56	2.87	--	W
Iowa	4.76	2.62	82.0%	4.76	2.62	--	--
Kansas	4.70	4.12	14.0%	4.70	4.12	--	--
Minnesota	4.15	W	W	4.15	3.03	--	W
Missouri	3.24	W	W	3.24	2.56	--	W
Nebraska	5.62	2.96	90.0%	5.62	2.96	--	--
North Dakota	5.37	2.31	132.0%	5.37	2.31	--	--
South Dakota	--	2.17	--	--	2.17	--	--
South Atlantic	4.28	3.54	21.0%	4.35	3.64	3.47	2.58
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	4.56	W	W	4.56	3.91	--	W
Georgia	W	W	W	3.70	2.79	W	W
Maryland	W	4.63	W	--	--	W	4.63
North Carolina	W	W	W	4.33	3.85	W	W
South Carolina	W	W	W	3.57	3.09	W	W
Virginia	W	W	W	4.66	3.53	W	W
West Virginia	W	1.98	W	3.23	2.01	W	1.98
East South Central	3.61	2.79	29.0%	3.66	2.88	3.45	2.57
Alabama	W	W	W	3.69	2.65	W	W
Kentucky	W	W	W	5.51	3.31	W	W
Mississippi	W	W	W	3.51	2.98	W	W
Tennessee	3.44	2.44	41.0%	3.44	2.44	--	--
West South Central	3.27	2.32	41.0%	3.51	2.43	3.17	2.25
Arkansas	W	W	W	3.47	2.35	W	W
Louisiana	W	W	W	3.51	2.40	W	W
Oklahoma	W	W	W	3.46	2.49	W	W
Texas	3.21	2.30	40.0%	3.58	2.45	3.17	2.26
Mountain	W	W	W	4.00	2.82	W	W
Arizona	W	W	W	4.57	2.95	W	W
Colorado	W	W	W	3.82	3.09	W	W
Idaho	--	2.47	--	--	2.47	--	--
Montana	2.24	--	--	2.24	--	--	--
Nevada	3.96	2.77	43.0%	3.96	2.77	--	--
New Mexico	3.67	2.61	41.0%	3.67	2.61	--	--
Utah	W	W	W	3.86	2.58	W	W
Wyoming	W	8.69	W	4.35	8.69	W	--
Pacific Contiguous	4.02	2.83	42.0%	4.38	3.19	3.74	2.53
California	W	2.88	W	4.42	3.31	W	2.59
Oregon	W	W	W	3.40	2.29	W	W
Washington	4.71	W	W	4.71	3.55	--	W
Pacific Noncontiguous	8.09	6.42	26.0%	8.09	6.42	--	--
Alaska	8.09	6.42	26.0%	8.09	6.42	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.91	2.91	34.0%	4.10	3.13	3.66	2.61

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

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

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, February 2017

	Bituminous			Subbituminous			Lignite		
Census Division and State	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	54	0.73	8.1	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	9	1.45	7.0	0	--	--	0	--	--
Massachusetts	45	0.55	8.4	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,468	2.80	8.8	0	--	--	0	--	--
New Jersey	58	1.61	7.5	0	--	--	0	--	--
New York	55	2.05	8.1	0	--	--	0	--	--
Pennsylvania	1,356	2.88	8.8	0	--	--	0	--	--
East North Central	5,000	3.12	9.8	5,686	0.23	4.8	0	--	--
Illinois	768	3.63	18.4	2,895	0.22	4.6	0	--	--
Indiana	1,989	2.96	8.3	129	0.23	4.5	0	--	--
Michigan	89	1.98	7.7	1,152	0.23	4.9	0	--	--
Ohio	2,079	3.17	8.7	15	0.33	5.4	0	--	--
Wisconsin	75	2.91	7.9	1,494	0.25	5.1	0	--	--
West North Central	86	3.25	9.5	7,687	0.27	4.9	2,006	0.81	9.5
Iowa	32	3.55	8.0	1,150	0.24	4.8	0	--	--
Kansas	15	3.02	13.4	1,082	0.33	4.9	0	--	--
Minnesota	0	--	--	1,178	0.33	5.5	0	--	--
Missouri	40	3.11	9.1	2,937	0.23	4.7	0	--	--
Nebraska	0	--	--	1,217	0.27	5.1	0	--	--
North Dakota	0	--	--	0	--	--	2,006	0.81	9.5
South Dakota	0	--	--	124	0.38	5.2	0	--	--
South Atlantic	6,619	2.39	9.8	668	0.34	5.1	0	--	--
Delaware	35	2.08	7.9	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,199	2.26	8.7	0	--	--	0	--	--
Georgia	603	2.45	7.9	668	0.34	5.1	0	--	--
Maryland	392	2.18	9.8	0	--	--	0	--	--
North Carolina	1,124	1.72	9.2	0	--	--	0	--	--
South Carolina	505	1.77	8.7	0	--	--	0	--	--
Virginia	495	1.23	14.1	0	--	--	0	--	--
West Virginia	2,264	3.17	10.5	0	--	--	0	--	--
East South Central	2,993	2.65	8.9	1,896	0.26	5.0	187	0.29	12.4
Alabama	400	1.39	9.3	785	0.26	5.0	0	--	--
Kentucky	2,203	2.99	9.0	924	0.27	4.9	0	--	--
Mississippi	62	1.96	7.3	0	--	--	187	0.29	12.4
Tennessee	328	1.88	7.9	188	0.22	4.7	0	--	--
West South Central	85	2.18	16.4	6,868	0.28	5.2	2,759	1.07	17.2
Arkansas	5	0.62	7.4	1,086	0.26	4.8	0	--	--
Louisiana	39	3.20	9.6	498	0.25	4.8	300	0.58	14.9
Oklahoma	41	1.36	24.6	848	0.22	4.7	0	--	--
Texas	0	--	--	4,436	0.30	5.4	2,459	1.13	17.5
Mountain	2,176	0.61	13.8	5,096	0.48	8.3	23	0.52	8.9
Arizona	486	0.56	10.7	802	0.48	8.7	0	--	--
Colorado	221	0.43	11.2	1,219	0.30	5.3	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	758	0.73	9.4	23	0.52	8.9
Nevada	0	--	--	31	0.33	4.6	0	--	--
New Mexico	503	0.84	22.7	369	0.82	21.4	0	--	--
Utah	966	0.57	11.9	61	1.07	8.2	0	--	--
Wyoming	0	--	--	1,856	0.42	7.1	0	--	--
Pacific Contiguous	66	0.48	9.7	208	0.35	6.3	0	--	--
California	66	0.48	9.7	0	--	--	0	--	--
Oregon	0	--	--	69	0.25	4.6	0	--	--
Washington	0	--	--	139	0.41	7.1	0	--	--
Pacific Noncontiguous	0	--	--	59	0.13	4.2	8	0.13	8.0
Alaska	0	--	--	0	--	--	8	0.13	8.0
Hawaii	0	--	--	59	0.13	4.2	0	--	--
U.S. Total	18,548	2.46	10.0	28,168	0.30	5.6	4,984	0.94	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 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, February 2017

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	2,839	3.00	8.5	3,417	0.24	4.9	0	--	--
Illinois	236	3.18	10.1	641	0.22	4.5	0	--	--
Indiana	1,868	2.90	8.3	129	0.23	4.5	0	--	--
Michigan	89	1.98	7.7	1,152	0.23	4.9	0	--	--
Ohio	571	3.42	8.6	0	--	--	0	--	--
Wisconsin	75	2.91	7.9	1,494	0.25	5.1	0	--	--
West North Central	51	3.10	10.4	7,471	0.27	4.9	2,006	0.81	9.5
Iowa	0	--	--	1,013	0.24	4.8	0	--	--
Kansas	15	3.02	13.4	1,082	0.33	4.9	0	--	--
Minnesota	0	--	--	1,178	0.33	5.5	0	--	--
Missouri	36	3.13	9.2	2,937	0.23	4.7	0	--	--
Nebraska	0	--	--	1,137	0.27	5.2	0	--	--
North Dakota	0	--	--	0	--	--	2,006	0.81	9.5
South Dakota	0	--	--	124	0.38	5.2	0	--	--
South Atlantic	5,707	2.32	9.9	668	0.34	5.1	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,176	2.30	8.8	0	--	--	0	--	--
Georgia	590	2.48	7.8	668	0.34	5.1	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,094	1.74	9.3	0	--	--	0	--	--
South Carolina	497	1.78	8.7	0	--	--	0	--	--
Virginia	448	1.29	14.8	0	--	--	0	--	--
West Virginia	1,901	2.96	10.7	0	--	--	0	--	--
East South Central	2,895	2.72	8.9	1,896	0.26	5.0	0	--	--
Alabama	400	1.39	9.3	785	0.26	5.0	0	--	--
Kentucky	2,203	2.99	9.0	924	0.27	4.9	0	--	--
Mississippi	62	1.96	7.3	0	--	--	0	--	--
Tennessee	230	2.35	8.0	188	0.22	4.7	0	--	--
West South Central	39	3.20	9.6	3,656	0.25	5.0	898	1.28	18.2
Arkansas	0	--	--	1,053	0.25	4.8	0	--	--
Louisiana	39	3.20	9.6	236	0.23	4.7	300	0.58	14.9
Oklahoma	0	--	--	775	0.22	4.7	0	--	--
Texas	0	--	--	1,592	0.27	5.2	597	1.68	20.1
Mountain	2,176	0.61	13.8	4,264	0.44	8.1	23	0.52	8.9
Arizona	486	0.56	10.7	802	0.48	8.7	0	--	--
Colorado	221	0.43	11.2	1,219	0.30	5.3	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	23	0.52	8.9
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	503	0.84	22.7	369	0.82	21.4	0	--	--
Utah	966	0.57	11.9	61	1.07	8.2	0	--	--
Wyoming	0	--	--	1,813	0.42	7.1	0	--	--
Pacific Contiguous	0	--	--	69	0.25	4.6	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	69	0.25	4.6	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	8	0.13	8.0
Alaska	0	--	--	0	--	--	8	0.13	8.0
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	13,707	2.30	10.0	21,440	0.30	5.6	2,935	0.95	12.1

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:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2016 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, February 2017

	Bituminous			Subbituminous			Lignite		
Census Division and State	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	54	0.73	8.1	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	9	1.45	7.0	0	--	--	0	--	--
Massachusetts	45	0.55	8.4	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,433	2.83	8.8	0	--	--	0	--	--
New Jersey	58	1.61	7.5	0	--	--	0	--	--
New York	30	2.41	8.7	0	--	--	0	--	--
Pennsylvania	1,345	2.89	8.8	0	--	--	0	--	--
East North Central	2,094	3.26	11.5	2,221	0.20	4.6	0	--	--
Illinois	464	3.91	25.4	2,206	0.20	4.6	0	--	--
Indiana	121	3.91	8.4	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	1,509	3.07	8.8	15	0.33	5.4	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	808	3.05	9.2	0	--	--	0	--	--
Delaware	35	2.08	7.9	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	13	0.51	6.4	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	374	2.20	9.3	0	--	--	0	--	--
North Carolina	2	0.72	5.3	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	22	0.78	8.5	0	--	--	0	--	--
West Virginia	363	4.26	9.5	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	187	0.29	12.4
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	187	0.29	12.4
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	41	1.36	24.6	3,181	0.31	5.5	1,862	0.97	16.7
Arkansas	0	--	--	33	0.33	4.7	0	--	--
Louisiana	0	--	--	262	0.27	4.8	0	--	--
Oklahoma	41	1.36	24.6	42	0.24	4.9	0	--	--
Texas	0	--	--	2,844	0.31	5.5	1,862	0.97	16.7
Mountain	0	--	--	832	0.70	9.0	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	758	0.73	9.4	0	--	--
Nevada	0	--	--	31	0.33	4.6	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	43	0.47	6.6	0	--	--
Pacific Contiguous	0	--	--	139	0.41	7.1	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	139	0.41	7.1	0	--	--
Pacific Noncontiguous	0	--	--	59	0.13	4.2	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	59	0.13	4.2	0	--	--
U.S. Total	4,430	3.03	10.2	6,433	0.32	5.6	2,048	0.92	16.4

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 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, February 2017

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	4	2.95	8.3	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	4	2.95	8.3	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	4	2.95	8.3	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 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, February 2017

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	36	1.66	7.5	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	25	1.61	7.3	0	--	--	0	--	--
Pennsylvania	11	1.77	8.0	0	--	--	0	--	--
East North Central	68	3.65	8.5	48	0.80	6.5	0	--	--
Illinois	68	3.65	8.5	48	0.80	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	32	3.55	8.0	216	0.21	4.5	0	--	--
Iowa	32	3.55	8.0	137	0.21	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	80	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	103	0.99	9.9	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	11	0.65	7.7	0	--	--	0	--	--
Georgia	13	1.15	10.4	0	--	--	0	--	--
Maryland	19	1.87	23.2	0	--	--	0	--	--
North Carolina	28	0.93	6.9	0	--	--	0	--	--
South Carolina	8	0.78	6.4	0	--	--	0	--	--
Virginia	25	0.67	7.2	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	97	0.87	7.7	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	97	0.87	7.7	0	--	--	0	--	--
West South Central	5	0.62	7.4	30	0.18	4.6	0	--	--
Arkansas	5	0.62	7.4	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	30	0.18	4.6	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	66	0.48	9.7	0	--	--	0	--	--
California	66	0.48	9.7	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	407	1.52	8.7	295	0.31	4.8	0	--	--

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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 and 2017 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 5.1. Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2007 - February 2017 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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 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 2017					
January	128,997	109,225	75,596	666	314,483
February	101,141	99,478	71,741	636	272,996
Year to Date					
2015	261,603	217,102	156,358	1,372	636,435
2016	246,584	212,747	149,801	1,307	610,439
2017	230,138	208,702	147,336	1,303	587,479
Rolling 12 Months Ending in February					
2016	1,389,078	1,356,396	979,951	7,571	3,732,997
2017	1,390,948	1,355,572	933,803	7,495	3,687,818

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 2017 and 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-861M (formerly EIA-826), Monthly Electric Industry Power Report.
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, 2007 - February 2017 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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 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 2017					
January	15,758	11,126	4,964	62	31,910
February	12,961	10,424	4,755	60	28,201
Year to Date					
2015	31,880	22,709	10,586	144	65,320
2016	29,726	21,497	9,580	123	60,926
2017	28,719	21,550	9,720	122	60,111
Rolling 12 Months Ending in February					
2016	175,469	143,569	67,160	750	386,948
2017	175,579	140,991	63,340	710	380,620

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 2017 and 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-861M (formerly EIA-826), Monthly Electric Industry Power Report.
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, 2007 - February 2017 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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 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 2017					
January	12.22	10.19	6.57	9.32	10.15
February	12.82	10.48	6.63	9.47	10.33
Year to Date					
2015	12.19	10.46	6.77	10.47	10.26
2016	12.05	10.10	6.40	9.45	9.98
2017	12.48	10.33	6.60	9.39	10.23
Rolling 12 Months Ending in February					
2016	12.63	10.58	6.85	9.91	10.37
2017	12.62	10.40	6.78	9.47	10.32

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2015 and prior years are final. Values for 2017 and 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-861M (formerly EIA-826), Monthly Electric Industry Power Report.
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, February 2017 and 2016 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	3,808	3,995	3,997	4,135	1,268	1,356	51	49	9,123	9,535
Connecticut	1,039	1,106	942	995	239	248	18	15	2,238	2,364
Maine	390	408	290	317	191	220	0	0	872	944
Massachusetts	1,598	1,667	2,002	2,017	519	534	30	31	4,149	4,250
New Hampshire	377	393	340	373	150	164	0	0	867	930
Rhode Island	231	237	266	269	56	63	2	2	555	572
Vermont	173	185	156	163	112	128	0	0	441	476
Middle Atlantic	10,278	11,343	12,478	12,722	5,697	5,868	334	343	28,788	30,276
New Jersey	1,915	2,135	2,883	3,038	592	556	26	27	5,416	5,756
New York	3,870	4,078	6,212	6,023	1,285	1,398	241	248	11,607	11,746
Pennsylvania	4,494	5,130	3,384	3,660	3,821	3,914	67	68	11,765	12,773
East North Central	13,671	15,711	13,744	14,374	14,031	15,002	49	59	41,496	45,147
Illinois	3,186	3,626	3,841	3,959	3,113	3,353	43	52	10,183	10,990
Indiana	2,376	2,996	1,723	1,891	3,103	3,607	2	2	7,203	8,496
Michigan	2,503	2,681	2,873	2,964	2,340	2,366	0	0	7,717	8,012
Ohio	3,880	4,620	3,469	3,661	3,639	3,796	4	5	10,992	12,081
Wisconsin	1,726	1,789	1,838	1,899	1,836	1,881	0	0	5,401	5,569
West North Central	8,089	8,919	7,676	8,068	6,577	6,712	4	4	22,346	23,703
Iowa	1,151	1,169	964	966	1,684	1,743	0	0	3,799	3,877
Kansas	826	982	1,092	1,166	837	843	0	0	2,755	2,990
Minnesota	1,833	1,884	1,746	1,857	1,576	1,558	2	2	5,157	5,300
Missouri	2,530	3,086	2,212	2,387	879	1,005	2	2	5,623	6,480
Nebraska	817	874	740	772	785	744	0	0	2,342	2,391
North Dakota	484	479	526	522	606	606	0	0	1,616	1,608
South Dakota	447	446	395	399	212	213	0	0	1,054	1,057
South Atlantic	24,040	30,134	22,146	23,036	10,289	10,772	106	101	56,580	64,043
Delaware	380	438	305	312	159	189	0	0	845	940
District of Columbia	180	248	582	712	12	13	26	22	801	995
Florida	7,519	8,423	6,631	6,525	1,228	1,258	7	7	15,385	16,212
Georgia	3,706	4,723	3,250	3,530	2,327	2,480	15	16	9,298	10,749
Maryland	2,092	2,553	2,161	2,373	267	314	44	40	4,564	5,280
North Carolina	3,968	5,228	3,357	3,624	1,995	2,122	0	1	9,320	10,975
South Carolina	1,927	2,678	1,446	1,633	2,060	2,123	0	0	5,433	6,434
Virginia	3,409	4,585	3,855	3,704	1,236	1,266	15	15	8,514	9,571
West Virginia	858	1,257	557	623	1,005	1,007	0	0	2,420	2,887
East South Central	8,501	10,917	6,527	6,936	7,514	7,733	0	0	22,542	25,585
Alabama	2,061	2,653	1,570	1,669	2,513	2,598	0	0	6,144	6,919
Kentucky	1,939	2,499	1,398	1,513	2,111	2,215	0	0	5,448	6,227
Mississippi	1,251	1,580	981	1,021	1,281	1,303	0	0	3,514	3,904
Tennessee	3,249	4,185	2,578	2,733	1,609	1,617	0	0	7,437	8,535
West South Central	13,502	16,001	13,318	13,891	13,898	13,485	15	15	40,733	43,392
Arkansas	1,319	1,588	838	881	1,302	1,253	0	0	3,459	3,722
Louisiana	1,931	2,429	1,739	1,814	2,686	2,671	1	1	6,358	6,914
Oklahoma	1,407	1,669	1,344	1,384	1,336	1,300	0	0	4,087	4,354
Texas	8,845	10,315	9,398	9,812	8,573	8,261	14	14	26,830	28,402
Mountain	6,680	6,845	6,961	7,028	5,981	6,398	11	11	19,633	20,282
Arizona	1,850	1,959	1,984	2,048	1,008	1,177	0	0	4,841	5,185
Colorado	1,388	1,448	1,514	1,557	1,153	1,189	5	5	4,061	4,199
Idaho	791	750	502	502	460	471	0	0	1,753	1,723
Montana	525	463	430	413	349	347	0	0	1,305	1,223
Nevada	697	705	757	668	963	1,093	1	1	2,417	2,466
New Mexico	508	550	629	647	536	564	0	0	1,673	1,761
Utah	648	697	843	875	693	748	5	4	2,188	2,325
Wyoming	273	273	303	318	818	809	0	0	1,395	1,400
Pacific Contiguous	12,192	11,580	12,163	12,205	6,108	6,189	65	65	30,528	30,039
California	6,579	6,489	8,293	8,486	3,306	3,379	63	62	18,240	18,416
Oregon	1,850	1,681	1,316	1,285	890	870	2	2	4,059	3,837
Washington	3,763	3,410	2,553	2,434	1,912	1,940	0	0	8,228	7,785
Pacific Noncontiguous	381	375	467	482	378	394	0	0	1,226	1,252
Alaska	195	184	243	240	116	112	0	0	555	537
Hawaii	185	191	224	242	262	282	0	0	671	715
U.S. Total	101,141	115,820	99,478	102,877	71,741	73,909	636	647	272,996	293,253

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
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Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report. OPTIONS NOCENTER

Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through February 2017 and 2016 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	8,254	8,317	8,413	8,590	2,604	2,754	99	98	19,370	19,760
Connecticut	2,266	2,297	1,990	2,075	484	507	31	29	4,771	4,908
Maine	868	841	659	648	415	457	0	0	1,942	1,947
Massachusetts	3,410	3,456	4,148	4,210	1,041	1,098	63	65	8,663	8,829
New Hampshire	833	809	733	743	312	317	0	0	1,878	1,869
Rhode Island	496	518	564	580	120	124	5	5	1,184	1,226
Vermont	382	396	320	334	231	250	0	0	933	980
Middle Atlantic	22,510	23,361	25,710	25,817	11,465	11,751	688	676	60,372	61,605
New Jersey	4,266	4,536	6,041	6,160	1,142	1,109	52	55	11,502	11,859
New York	8,308	8,414	12,532	12,231	2,598	2,820	485	485	23,922	23,950
Pennsylvania	9,936	10,411	7,137	7,426	7,725	7,823	151	136	24,948	25,795
East North Central	31,410	33,842	29,165	29,885	28,922	30,091	103	110	89,600	93,928
Illinois	7,340	7,843	8,131	8,361	6,584	6,684	90	96	22,145	22,983
Indiana	5,574	6,321	3,722	3,875	6,388	7,169	3	4	15,688	17,369
Michigan	5,717	5,861	6,124	6,153	4,660	4,789	1	1	16,502	16,804
Ohio	8,891	9,862	7,321	7,586	7,529	7,663	9	10	23,749	25,120
Wisconsin	3,888	3,956	3,867	3,910	3,760	3,786	0	0	11,515	11,652
West North Central	18,872	19,502	16,340	16,716	13,414	13,495	9	9	48,636	49,722
Iowa	2,671	2,683	2,029	2,040	3,445	3,368	0	0	8,145	8,091
Kansas	2,051	2,235	2,305	2,418	1,711	1,709	0	0	6,067	6,362
Minnesota	4,130	4,078	3,753	3,826	3,238	3,192	5	5	11,126	11,101
Missouri	5,989	6,567	4,730	4,937	1,791	2,057	5	4	12,515	13,566
Nebraska	1,922	1,914	1,552	1,571	1,561	1,515	0	0	5,035	5,000
North Dakota	1,106	1,070	1,127	1,101	1,233	1,229	0	0	3,465	3,400
South Dakota	1,003	955	845	822	435	425	0	0	2,282	2,203
South Atlantic	54,803	63,042	46,195	48,351	21,159	21,910	214	231	122,371	133,534
Delaware	836	887	653	713	321	318	0	0	1,810	1,918
District of Columbia	402	441	1,248	1,443	25	31	51	57	1,726	1,971
Florida	16,315	17,379	13,685	13,524	2,550	2,586	14	14	32,565	33,504
Georgia	8,472	10,031	6,898	7,328	4,888	5,071	29	30	20,288	22,461
Maryland	4,695	5,471	4,566	4,803	564	614	88	96	9,914	10,984
North Carolina	9,332	11,236	7,127	7,548	4,019	4,091	1	1	20,479	22,877
South Carolina	4,557	5,639	3,101	3,436	4,209	4,298	0	0	11,867	13,373
Virginia	8,113	9,271	7,717	8,185	2,520	2,783	30	32	18,381	20,271
West Virginia	2,081	2,686	1,199	1,371	2,062	2,117	0	0	5,341	6,175
East South Central	19,333	22,294	13,688	14,212	15,565	15,632	0	0	48,585	52,138
Alabama	4,756	5,748	3,334	3,500	5,255	5,340	0	0	13,345	14,587
Kentucky	4,511	5,293	2,967	3,143	4,346	4,434	0	0	11,824	12,870
Mississippi	2,836	3,203	2,048	2,065	2,635	2,640	0	0	7,520	7,908
Tennessee	7,229	8,051	5,338	5,505	3,329	3,218	0	0	15,896	16,773
West South Central	31,633	34,473	28,211	28,755	28,559	27,870	31	30	88,433	91,128
Arkansas	3,058	3,269	1,766	1,817	2,592	2,510	0	0	7,417	7,596
Louisiana	4,448	5,003	3,652	3,739	5,527	5,453	2	2	13,629	14,198
Oklahoma	3,525	3,847	2,826	2,908	2,687	2,694	0	0	9,039	9,449
Texas	20,602	22,354	19,967	20,291	17,752	17,212	29	28	58,349	59,885
Mountain	15,301	15,425	14,616	14,533	12,433	12,994	23	22	42,374	42,973
Arizona	4,240	4,484	4,123	4,205	2,129	2,404	1	1	10,492	11,094
Colorado	3,143	3,184	3,203	3,255	2,337	2,423	11	11	8,694	8,874
Idaho	1,886	1,682	1,090	1,046	992	974	0	0	3,967	3,702
Montana	1,194	1,029	894	850	707	700	0	0	2,796	2,578
Nevada	1,615	1,712	1,553	1,347	1,948	2,146	1	1	5,117	5,206
New Mexico	1,125	1,213	1,319	1,339	1,131	1,150	0	0	3,575	3,703
Utah	1,482	1,518	1,784	1,829	1,478	1,529	10	9	4,755	4,886
Wyoming	617	602	650	661	1,711	1,668	0	0	2,978	2,931
Pacific Contiguous	27,184	25,514	25,406	24,918	12,439	12,498	135	131	65,163	63,060
California	14,446	14,297	17,299	17,193	6,798	6,755	129	126	38,673	38,371
Oregon	4,368	3,810	2,763	2,678	1,795	1,750	5	4	8,931	8,243
Washington	8,370	7,407	5,344	5,046	3,846	3,992	1	1	17,560	16,446
Pacific Noncontiguous	838	813	958	972	778	807	0	0	2,575	2,592
Alaska	431	400	500	485	231	231	0	0	1,163	1,116
Hawaii	407	413	458	487	547	576	0	0	1,412	1,476
U.S. Total	230,138	246,584	208,702	212,747	147,336	149,801	1,303	1,307	587,479	610,439

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-861M (formerly EIA-826), Monthly Electric Power Industry Report. OPTIONS NOCENTER

Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, February 2017 and 2016 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	734	768	611	645	157	167	5	5	1,507	1,585
Connecticut	207	229	150	161	32	33	2	2	390	425
Maine	63	62	37	39	18	20	0	0	117	121
Massachusetts	317	330	308	323	69	71	3	3	698	727
New Hampshire	71	72	51	55	19	21	0	0	141	148
Rhode Island	46	45	43	43	8	9	0	0	97	97
Vermont	30	31	23	23	11	13	0	0	64	67
Middle Atlantic	1,619	1,733	1,496	1,530	385	415	36	37	3,536	3,715
New Jersey	300	331	347	360	57	55	2	2	707	747
New York	677	683	834	819	64	85	29	29	1,603	1,616
Pennsylvania	642	719	315	351	264	275	5	6	1,226	1,351
East North Central	1,773	1,955	1,376	1,397	985	1,009	3	4	4,137	4,364
Illinois	389	433	325	337	198	213	3	3	915	986
Indiana	280	315	179	179	230	236	0	0	689	731
Michigan	386	399	323	314	171	158	0	0	880	871
Ohio	471	556	346	362	245	258	0	0	1,062	1,176
Wisconsin	247	252	203	205	141	144	0	0	591	601
West North Central	898	940	721	721	451	444	0	0	2,070	2,105
Iowa	128	128	84	83	93	91	0	0	305	302
Kansas	107	123	112	120	60	63	0	0	279	306
Minnesota	235	228	193	176	121	110	0	0	549	514
Missouri	252	285	185	195	55	61	0	0	493	541
Nebraska	81	84	63	65	54	53	0	0	198	202
North Dakota	46	45	47	47	52	50	0	0	145	142
South Dakota	48	47	36	36	16	15	0	0	100	98
South Atlantic	2,875	3,413	2,115	2,186	656	664	8	8	5,654	6,270
Delaware	51	57	32	33	12	15	0	0	95	105
District of Columbia	23	32	70	88	1	1	2	2	97	123
Florida	899	955	655	629	102	97	1	1	1,656	1,681
Georgia	431	497	326	334	129	126	1	1	887	958
Maryland	300	357	244	260	24	26	3	3	571	646
North Carolina	444	563	292	315	117	128	0	0	852	1,006
South Carolina	249	319	155	165	122	120	0	0	526	604
Virginia	378	499	286	302	81	85	1	1	746	887
West Virginia	99	134	55	59	69	66	0	0	223	259
East South Central	956	1,113	694	691	447	415	0	0	2,096	2,219
Alabama	267	305	188	185	150	138	0	0	606	628
Kentucky	205	243	136	141	119	115	0	0	460	498
Mississippi	141	163	103	100	79	73	0	0	323	336
Tennessee	342	402	267	265	98	89	0	0	707	756
West South Central	1,479	1,652	1,137	1,088	731	668	1	1	3,349	3,410
Arkansas	130	145	69	70	71	69	0	0	270	284
Louisiana	185	205	161	153	145	126	0	0	490	484
Oklahoma	156	161	107	96	67	58	0	0	329	315
Texas	1,009	1,141	800	769	449	415	1	1	2,259	2,326
Mountain	760	761	641	640	364	374	1	1	1,766	1,777
Arizona	216	225	194	202	59	63	0	0	468	489
Colorado	165	165	143	139	82	80	1	1	390	384
Idaho	76	72	38	38	27	28	0	0	142	138
Montana	56	49	43	41	17	17	0	0	116	106
Nevada	83	86	60	58	48	56	0	0	191	200
New Mexico	65	62	64	61	33	29	0	0	162	152
Utah	69	74	70	73	39	45	1	0	179	192
Wyoming	29	29	29	29	58	57	0	0	117	116
Pacific Contiguous	1,772	1,636	1,528	1,493	500	494	5	6	3,806	3,628
California	1,229	1,148	1,198	1,171	359	352	5	5	2,791	2,676
Oregon	195	174	115	114	54	52	0	0	364	340
Washington	349	314	215	207	88	90	0	0	651	611
Pacific Noncontiguous	95	88	105	100	79	71	0	0	279	258
Alaska	40	36	46	42	19	16	0	0	105	95
Hawaii	55	51	60	57	60	55	0	0	174	164
U.S. Total	12,961	14,060	10,424	10,491	4,755	4,720	60	61	28,201	29,332

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
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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-861M (formerly EIA-826), Monthly Electric Power Industry Report. OPTIONS NOCENTER

Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through February 2017 and 2016 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	1,572	1,579	1,274	1,318	324	336	9	9	3,180	3,242
Connecticut	443	465	314	327	64	67	3	3	825	862
Maine	139	128	82	80	39	41	0	0	260	249
Massachusetts	672	676	637	662	141	145	5	5	1,455	1,488
New Hampshire	155	147	107	109	39	40	0	0	302	297
Rhode Island	96	96	89	92	17	17	1	1	203	207
Vermont	66	66	46	48	23	25	0	0	136	139
Middle Atlantic	3,510	3,556	3,088	3,093	790	827	73	73	7,461	7,549
New Jersey	673	703	725	734	113	110	5	5	1,515	1,552
New York	1,444	1,401	1,710	1,652	142	164	58	58	3,354	3,274
Pennsylvania	1,393	1,452	652	707	536	553	11	11	2,592	2,723
East North Central	3,973	4,177	2,876	2,871	2,021	2,023	7	7	8,877	9,077
Illinois	857	915	681	706	418	422	5	6	1,961	2,050
Indiana	641	664	381	364	472	468	0	0	1,493	1,495
Michigan	875	860	676	640	343	325	0	0	1,894	1,825
Ohio	1,050	1,188	719	741	501	521	1	1	2,270	2,450
Wisconsin	550	550	421	420	288	287	0	0	1,259	1,257
West North Central	2,027	2,027	1,488	1,474	917	887	1	1	4,433	4,389
Iowa	292	286	176	171	189	179	0	0	658	636
Kansas	254	272	230	244	126	127	0	0	610	642
Minnesota	514	491	385	363	243	223	0	0	1,142	1,078
Missouri	576	603	389	396	113	121	0	0	1,079	1,120
Nebraska	184	181	131	131	108	106	0	0	423	418
North Dakota	102	96	100	96	105	99	0	0	307	291
South Dakota	105	99	76	74	33	31	0	0	214	204
South Atlantic	6,382	7,111	4,379	4,557	1,342	1,370	17	18	12,119	13,055
Delaware	109	116	66	74	25	26	0	0	201	216
District of Columbia	51	57	148	174	2	3	5	5	206	239
Florida	1,914	1,984	1,324	1,294	204	201	1	1	3,443	3,480
Georgia	948	1,049	684	700	268	267	1	1	1,901	2,017
Maryland	671	767	513	526	49	50	7	7	1,240	1,350
North Carolina	1,007	1,188	609	651	240	249	0	0	1,856	2,088
South Carolina	568	665	323	343	247	247	0	0	1,139	1,255
Virginia	876	998	596	669	165	190	2	3	1,639	1,860
West Virginia	238	287	116	127	140	137	0	0	494	551
East South Central	2,128	2,281	1,441	1,411	919	852	0	0	4,488	4,544
Alabama	594	647	391	382	311	286	0	0	1,295	1,315
Kentucky	469	517	285	289	245	233	0	0	999	1,039
Mississippi	309	333	211	205	161	153	0	0	681	690
Tennessee	757	785	554	535	202	180	0	0	1,513	1,500
West South Central	3,300	3,517	2,315	2,241	1,481	1,391	2	2	7,099	7,151
Arkansas	289	295	144	143	144	139	0	0	577	577
Louisiana	379	424	307	313	260	263	0	0	946	1,001
Oklahoma	348	342	223	200	137	121	0	0	708	663
Texas	2,283	2,457	1,641	1,584	940	868	2	2	4,867	4,910
Mountain	1,710	1,687	1,327	1,305	749	755	2	2	3,788	3,750
Arizona	486	500	400	409	126	128	0	0	1,012	1,037
Colorado	367	357	298	285	163	162	1	1	830	805
Idaho	178	161	82	79	57	57	0	0	317	297
Montana	127	106	89	82	35	34	0	0	250	223
Nevada	189	201	122	113	97	108	0	0	408	423
New Mexico	139	138	129	127	66	62	0	0	334	327
Utah	159	161	146	151	86	90	1	1	391	402
Wyoming	66	63	61	60	119	114	0	0	245	237
Pacific Contiguous	3,911	3,602	3,148	3,024	1,015	991	11	11	8,085	7,627
California	2,680	2,535	2,458	2,366	732	707	11	11	5,880	5,618
Oregon	457	391	241	234	109	104	0	0	807	729
Washington	774	676	448	424	174	180	0	0	1,397	1,280
Pacific Noncontiguous	206	189	214	203	162	149	0	0	582	541
Alaska	89	78	93	85	39	32	0	0	220	196
Hawaii	117	111	121	118	123	117	0	0	362	345
U.S. Total	28,719	29,726	21,550	21,497	9,720	9,580	122	123	60,111	60,926

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
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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-861M (formerly EIA-826), Monthly Electric Power Industry Report. OPTIONS NOCENTER

Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, February 2017 and 2016 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	19.28	19.23	15.29	15.59	12.37	12.31	9.60	9.67	16.52	16.62
Connecticut	19.91	20.68	15.93	16.16	13.17	13.50	10.40	11.63	17.44	17.97
Maine	16.02	15.24	12.61	12.29	9.35	9.17	--	--	13.43	12.84
Massachusetts	19.86	19.78	15.41	16.02	13.32	13.32	8.35	8.07	16.81	17.10
New Hampshire	18.91	18.37	14.88	14.79	12.53	12.71	--	--	16.23	15.93
Rhode Island	19.83	18.78	16.06	16.08	14.63	13.68	19.35	17.96	17.50	16.94
Vermont	17.51	16.89	14.54	14.34	10.10	9.94	--	--	14.57	14.15
Middle Atlantic	15.75	15.28	11.99	12.02	6.76	7.08	10.79	10.77	12.28	12.27
New Jersey	15.69	15.49	12.05	11.84	9.64	9.84	8.70	8.52	13.06	12.99
New York	17.48	16.76	13.42	13.59	4.98	6.11	11.92	11.71	13.81	13.76
Pennsylvania	14.29	14.02	9.30	9.59	6.91	7.04	7.54	8.26	10.42	10.58
East North Central	12.97	12.44	10.01	9.72	7.02	6.72	6.30	6.70	9.97	9.67
Illinois	12.21	11.94	8.46	8.50	6.36	6.34	5.96	6.49	8.98	8.97
Indiana	11.78	10.53	10.38	9.47	7.42	6.54	11.77	9.67	9.57	8.60
Michigan	15.41	14.88	11.25	10.59	7.33	6.68	12.33	11.21	11.41	10.87
Ohio	12.15	12.03	9.97	9.89	6.73	6.80	7.30	7.33	9.66	9.74
Wisconsin	14.34	14.07	11.04	10.81	7.66	7.64	14.00	14.55	10.94	10.79
West North Central	11.10	10.54	9.40	8.94	6.86	6.61	8.19	8.21	9.27	8.88
Iowa	11.16	10.92	8.70	8.54	5.50	5.25	--	--	8.03	7.78
Kansas	12.99	12.57	10.26	10.25	7.17	7.46	--	--	10.14	10.23
Minnesota	12.83	12.12	11.07	9.50	7.65	7.04	9.64	10.00	10.65	9.70
Missouri	9.96	9.23	8.38	8.17	6.30	6.06	6.76	6.32	8.77	8.35
Nebraska	9.96	9.65	8.52	8.39	6.88	7.16	--	--	8.47	8.47
North Dakota	9.46	9.41	8.98	8.96	8.63	8.27	--	--	9.00	8.83
South Dakota	10.68	10.45	9.15	9.07	7.62	7.24	--	--	9.49	9.28
South Atlantic	11.96	11.32	9.55	9.49	6.38	6.16	7.73	7.77	9.99	9.79
Delaware	13.37	12.99	10.58	10.68	7.58	7.96	--	--	11.28	11.21
District of Columbia	12.84	12.78	12.01	12.43	8.40	9.07	9.36	9.78	12.06	12.41
Florida	11.95	11.33	9.88	9.64	8.27	7.73	8.56	8.88	10.76	10.37
Georgia	11.62	10.52	10.04	9.47	5.56	5.06	4.48	4.28	9.54	8.91
Maryland	14.36	13.98	11.29	10.96	8.82	8.33	7.76	7.93	12.52	12.24
North Carolina	11.19	10.77	8.68	8.70	5.85	6.01	8.62	7.97	9.15	9.17
South Carolina	12.93	11.90	10.74	10.09	5.90	5.67	--	--	9.68	9.38
Virginia	11.09	10.89	7.41	8.15	6.57	6.69	7.57	7.60	8.76	9.27
West Virginia	11.58	10.68	9.87	9.47	6.86	6.55	--	--	9.23	8.98
East South Central	11.24	10.20	10.63	9.97	5.95	5.36	--	--	9.30	8.67
Alabama	12.97	11.50	11.99	11.07	5.99	5.32	--	--	9.86	9.08
Kentucky	10.59	9.71	9.75	9.31	5.63	5.19	--	--	8.45	8.01
Mississippi	11.27	10.32	10.47	9.84	6.19	5.58	--	--	9.20	8.61
Tennessee	10.52	9.61	10.34	9.70	6.10	5.49	--	--	9.50	8.86
West South Central	10.96	10.33	8.54	7.84	5.26	4.95	8.54	5.61	8.22	7.86
Arkansas	9.84	9.13	8.28	7.97	5.45	5.49	13.49	8.52	7.81	7.63
Louisiana	9.57	8.46	9.26	8.41	5.38	4.72	10.08	8.48	7.71	7.00
Oklahoma	11.07	9.63	7.95	6.96	5.00	4.48	--	--	8.06	7.24
Texas	11.41	11.06	8.51	7.84	5.24	5.02	8.41	5.43	8.42	8.19
Mountain	11.37	11.12	9.21	9.11	6.09	5.85	9.88	9.60	8.99	8.76
Arizona	11.66	11.46	9.76	9.87	5.87	5.32	7.97	8.04	9.67	9.44
Colorado	11.88	11.38	9.45	8.92	7.09	6.73	10.18	9.49	9.61	9.15
Idaho	9.66	9.66	7.64	7.59	5.85	5.91	--	--	8.08	8.03
Montana	10.61	10.51	9.96	9.87	4.96	4.79	--	--	8.89	8.67
Nevada	11.91	12.20	7.95	8.67	5.02	5.13	7.97	8.05	7.92	8.11
New Mexico	12.84	11.26	10.13	9.38	6.18	5.12	--	--	9.69	8.60
Utah	10.70	10.61	8.33	8.29	5.67	6.02	9.95	10.05	8.19	8.26
Wyoming	10.77	10.62	9.63	9.22	7.10	7.08	--	--	8.37	8.26
Pacific Contiguous	14.54	14.13	12.56	12.23	8.19	7.97	8.06	8.77	12.47	12.08
California	18.68	17.69	14.45	13.81	10.85	10.40	8.01	8.74	15.30	14.53
Oregon	10.53	10.35	8.74	8.87	6.07	6.00	9.22	9.21	8.97	8.87
Washington	9.27	9.21	8.41	8.52	4.58	4.62	9.12	10.40	7.91	7.85
Pacific Noncontiguous	24.89	23.35	22.50	20.66	20.94	18.06	--	--	22.76	20.65
Alaska	20.61	19.81	18.72	17.62	16.71	14.04	--	--	18.97	17.62
Hawaii	29.39	26.77	26.60	23.68	22.81	19.66	--	--	25.89	22.92
U.S. Total	12.82	12.14	10.48	10.20	6.63	6.39	9.47	9.49	10.33	10.00

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Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through February 2017 and 2016 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD	February 2017 YTD	February 2016 YTD
New England	19.04	18.99	15.15	15.34	12.46	12.21	9.58	9.25	16.42	16.41
Connecticut	19.56	20.25	15.76	15.76	13.27	13.25	10.98	11.28	17.28	17.57
Maine	15.98	15.26	12.48	12.30	9.46	9.02	--	--	13.40	12.81
Massachusetts	19.72	19.56	15.35	15.72	13.52	13.20	8.17	7.71	16.79	16.85
New Hampshire	18.67	18.18	14.58	14.69	12.64	12.71	--	--	16.07	15.86
Rhode Island	19.38	18.58	15.80	15.91	14.39	13.90	19.02	18.09	17.17	16.84
Vermont	17.26	16.75	14.43	14.29	10.15	10.14	--	--	14.53	14.22
Middle Atlantic	15.59	15.22	12.01	11.98	6.89	7.04	10.63	10.86	12.36	12.25
New Jersey	15.77	15.49	12.00	11.92	9.89	9.95	9.08	8.84	13.18	13.09
New York	17.39	16.65	13.65	13.51	5.46	5.81	11.91	11.90	14.02	13.67
Pennsylvania	14.02	13.95	9.14	9.52	6.93	7.07	7.04	7.95	10.39	10.56
East North Central	12.65	12.34	9.86	9.61	6.99	6.72	6.41	6.80	9.91	9.66
Illinois	11.68	11.67	8.37	8.45	6.34	6.32	6.08	6.59	8.86	8.92
Indiana	11.49	10.50	10.23	9.38	7.38	6.52	11.43	9.59	9.52	8.61
Michigan	15.31	14.68	11.03	10.40	7.35	6.79	12.30	11.47	11.47	10.86
Ohio	11.81	12.04	9.82	9.76	6.65	6.80	7.36	7.37	9.56	9.75
Wisconsin	14.15	13.90	10.88	10.75	7.66	7.57	13.48	13.64	10.93	10.79
West North Central	10.74	10.39	9.11	8.82	6.83	6.57	8.00	8.54	9.11	8.83
Iowa	10.95	10.64	8.68	8.36	5.50	5.33	--	--	8.08	7.86
Kansas	12.37	12.19	9.99	10.07	7.35	7.40	--	--	10.05	10.10
Minnesota	12.44	12.04	10.26	9.49	7.49	6.99	9.37	10.26	10.27	9.71
Missouri	9.61	9.18	8.23	8.02	6.33	5.89	6.60	6.57	8.62	8.26
Nebraska	9.57	9.44	8.46	8.35	6.91	7.02	--	--	8.40	8.36
North Dakota	9.19	8.94	8.86	8.68	8.54	8.09	--	--	8.85	8.55
South Dakota	10.48	10.35	9.04	9.00	7.50	7.29	--	--	9.38	9.25
South Atlantic	11.65	11.28	9.48	9.42	6.34	6.25	7.80	7.79	9.90	9.78
Delaware	13.08	13.08	10.16	10.35	7.80	8.14	--	--	11.09	11.25
District of Columbia	12.58	12.90	11.88	12.03	8.41	9.28	9.44	9.25	11.92	12.10
Florida	11.73	11.42	9.67	9.57	8.02	7.77	8.64	8.84	10.57	10.39
Georgia	11.19	10.46	9.91	9.55	5.49	5.26	4.71	4.44	9.37	8.98
Maryland	14.30	14.01	11.23	10.95	8.67	8.10	7.78	7.80	12.51	12.29
North Carolina	10.79	10.58	8.54	8.63	5.98	6.07	8.83	8.01	9.06	9.13
South Carolina	12.47	11.79	10.42	9.97	5.88	5.76	--	--	9.60	9.38
Virginia	10.80	10.77	7.72	8.17	6.56	6.84	7.66	7.86	8.92	9.17
West Virginia	11.42	10.68	9.71	9.25	6.78	6.49	--	--	9.25	8.93
East South Central	11.01	10.23	10.53	9.93	5.90	5.45	--	--	9.24	8.72
Alabama	12.48	11.25	11.73	10.92	5.91	5.36	--	--	9.71	9.02
Kentucky	10.40	9.76	9.61	9.20	5.63	5.26	--	--	8.45	8.07
Mississippi	10.88	10.38	10.29	9.93	6.11	5.78	--	--	9.05	8.73
Tennessee	10.47	9.75	10.38	9.72	6.07	5.60	--	--	9.52	8.94
West South Central	10.43	10.20	8.21	7.79	5.19	4.99	7.19	5.60	8.03	7.85
Arkansas	9.46	9.01	8.14	7.90	5.55	5.54	12.63	8.83	7.78	7.60
Louisiana	8.52	8.48	8.41	8.38	4.71	4.83	9.90	8.11	6.94	7.05
Oklahoma	9.88	8.88	7.88	6.89	5.10	4.49	--	--	7.83	7.02
Texas	11.08	10.99	8.22	7.81	5.30	5.04	6.97	5.42	8.34	8.20
Mountain	11.18	10.94	9.08	8.98	6.02	5.81	9.87	9.33	8.94	8.73
Arizona	11.46	11.14	9.71	9.72	5.90	5.34	7.99	8.14	9.64	9.35
Colorado	11.69	11.22	9.30	8.74	6.99	6.68	10.22	9.02	9.54	9.07
Idaho	9.43	9.60	7.52	7.51	5.78	5.80	--	--	7.99	8.01
Montana	10.61	10.33	9.92	9.68	4.96	4.89	--	--	8.96	8.64
Nevada	11.70	11.74	7.86	8.41	4.97	5.05	7.62	8.03	7.97	8.12
New Mexico	12.37	11.36	9.75	9.46	5.85	5.40	--	--	9.34	8.82
Utah	10.70	10.57	8.20	8.24	5.79	5.88	9.94	10.00	8.23	8.23
Wyoming	10.66	10.53	9.39	9.07	6.94	6.82	--	--	8.24	8.09
Pacific Contiguous	14.39	14.12	12.39	12.14	8.16	7.93	8.26	8.45	12.41	12.10
California	18.55	17.73	14.21	13.76	10.77	10.46	8.22	8.41	15.21	14.64
Oregon	10.45	10.26	8.73	8.74	6.06	5.94	9.16	9.18	9.04	8.85
Washington	9.25	9.13	8.39	8.40	4.53	4.51	9.54	9.89	7.96	7.78
Pacific Noncontiguous	24.58	23.28	22.32	20.91	20.83	18.43	--	--	22.61	20.88
Alaska	20.59	19.60	18.52	17.60	16.85	13.89	--	--	18.96	17.55
Hawaii	28.81	26.85	26.47	24.21	22.52	20.24	--	--	25.61	23.40
U.S. Total	12.48	12.05	10.33	10.10	6.60	6.40	9.39	9.45	10.23	9.98

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report. OPTIONS NOCENTER

Table 5.7. Number of Ultimate Customers Served by Sector: 2008 - February 2017

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
2016	131,092,578	18,139,923	811,825	83	150,044,409
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
Year 2017					
January	131,833,179	18,232,721	804,348	83	150,870,331
February	131,335,983	18,145,698	793,112	85	150,274,878
Rolling 12 Months Ending in February					
2016	130,014,458	18,004,052	833,900	78	148,852,488
2017	131,319,443	18,171,427	811,296	84	150,302,250

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 2017 and 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-861M (formerly EIA-826), Monthly Electric Industry Power Report.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: February 2017 and 2016

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	6,292,938	6,277,546	879,360	873,834	25,702	26,022	6	6	7,198,006	7,177,408
Connecticut	1,494,940	1,485,915	151,693	152,176	4,391	4,431	3	3	1,651,027	1,642,525
Maine	658,104	682,812	92,724	95,487	2,817	2,946	0	0	753,645	781,245
Massachusetts	2,769,599	2,747,007	411,737	406,628	13,222	13,369	2	2	3,194,560	3,167,006
New Hampshire	615,441	609,394	107,402	106,473	3,245	3,227	0	0	726,088	719,094
Rhode Island	442,452	440,768	59,918	58,970	1,816	1,833	1	1	504,187	501,572
Vermont	312,402	311,650	55,886	54,100	211	216	0	0	368,499	365,966
Middle Atlantic	15,998,724	15,925,218	2,294,658	2,268,244	42,205	42,972	22	19	18,335,609	18,236,453
New Jersey	3,518,488	3,495,372	515,151	511,373	11,769	11,941	6	6	4,045,414	4,018,692
New York	7,127,128	7,101,323	1,082,239	1,065,052	7,477	7,664	8	7	8,216,852	8,174,046
Pennsylvania	5,353,108	5,328,523	697,268	691,819	22,959	23,367	8	6	6,073,343	6,043,715
East North Central	20,089,624	19,949,275	2,482,754	2,461,909	51,748	52,107	8	8	22,624,134	22,463,299
Illinois	5,271,031	5,236,664	608,816	605,416	5,471	5,506	3	3	5,885,321	5,847,589
Indiana	2,831,630	2,808,817	348,799	346,604	17,279	17,408	1	1	3,197,709	3,172,830
Michigan	4,356,259	4,320,458	550,115	540,143	NM	NM	1	1	4,912,068	4,866,295
Ohio	4,947,799	4,923,296	621,733	620,153	18,584	18,789	2	2	5,588,118	5,562,240
Wisconsin	2,682,905	2,660,040	353,291	349,593	NM	NM	1	1	3,040,918	3,014,345
West North Central	9,462,737	9,331,007	1,443,920	1,428,737	112,534	113,150	3	2	11,019,194	10,872,896
Iowa	1,377,964	1,361,882	242,021	240,586	NM	NM	0	0	1,626,785	1,609,193
Kansas	1,262,671	1,252,838	233,275	232,209	25,200	25,448	0	0	1,521,146	1,510,495
Minnesota	2,377,288	2,352,077	287,403	282,910	NM	NM	1	1	2,672,725	2,643,114
Missouri	2,821,929	2,760,794	376,478	374,370	8,277	8,420	2	1	3,206,686	3,143,585
Nebraska	848,588	839,017	159,461	156,455	53,361	53,755	0	0	1,061,410	1,049,227
North Dakota	376,564	372,672	72,959	71,072	7,874	7,686	0	0	457,397	451,430
South Dakota	397,733	391,727	72,323	71,135	NM	NM	0	0	473,045	465,852
South Atlantic	27,450,115	27,014,781	3,753,830	3,710,979	79,491	79,074	13	11	31,283,449	30,804,845
Delaware	421,015	416,776	53,058	52,693	1,108	1,129	0	0	475,181	470,598
District of Columbia	265,178	257,547	26,021	25,915	1	1	3	1	291,203	283,464
Florida	9,198,852	8,973,714	1,218,483	1,198,676	20,608	20,281	2	2	10,437,945	10,192,673
Georgia	4,294,575	4,241,519	575,998	571,214	19,177	18,901	1	1	4,889,751	4,831,635
Maryland	2,306,734	2,287,202	251,384	250,022	8,827	8,780	5	5	2,566,950	2,546,009
North Carolina	4,468,260	4,412,517	696,630	683,595	9,884	10,000	1	1	5,174,775	5,106,113
South Carolina	2,241,731	2,209,657	360,560	356,822	4,527	4,416	0	0	2,606,818	2,570,895
Virginia	3,392,855	3,353,076	428,485	429,891	3,755	3,779	1	1	3,825,096	3,786,747
West Virginia	860,915	862,773	143,211	142,151	11,604	11,787	0	0	1,015,730	1,016,711
East South Central	8,342,893	8,278,453	1,379,859	1,370,646	24,428	24,912	0	0	9,747,180	9,674,011
Alabama	2,228,539	2,211,345	367,479	365,244	8,110	8,099	0	0	2,604,128	2,584,688
Kentucky	1,977,920	1,966,816	298,763	296,427	7,522	7,881	0	0	2,284,205	2,271,124
Mississippi	1,299,502	1,289,992	236,635	234,964	7,504	7,529	0	0	1,543,641	1,532,485
Tennessee	2,836,932	2,810,300	476,982	474,011	1,292	1,403	0	0	3,315,206	3,285,714
West South Central	15,606,996	15,491,007	2,176,812	2,179,299	179,576	179,233	6	6	17,963,390	17,849,545
Arkansas	1,375,666	1,366,006	189,170	188,244	33,942	34,789	2	2	1,598,780	1,589,041
Louisiana	2,072,654	2,055,838	288,212	288,879	18,347	18,400	1	1	2,379,214	2,363,118
Oklahoma	1,758,581	1,742,724	282,760	279,984	17,920	18,043	0	0	2,059,261	2,040,751
Texas	10,400,095	10,326,439	1,416,670	1,422,192	109,367	108,001	3	3	11,926,135	11,856,635
Mountain	9,615,768	9,489,244	1,375,270	1,355,344	85,434	84,850	4	4	11,076,476	10,929,442
Arizona	2,753,223	2,717,347	318,299	314,561	6,856	6,571	1	1	3,078,379	3,038,480
Colorado	2,276,333	2,247,123	358,638	352,000	13,777	13,748	1	1	2,648,749	2,612,872
Idaho	720,966	708,717	107,915	106,477	27,956	27,688	0	0	856,837	842,882
Montana	503,318	496,921	108,191	106,440	NM	NM	0	0	617,575	609,465
Nevada	1,154,293	1,136,682	162,813	161,038	NM	NM	1	1	1,320,239	1,300,935
New Mexico	891,810	886,619	138,783	137,343	8,528	8,463	0	0	1,039,121	1,032,425
Utah	1,044,306	1,025,986	122,303	119,529	9,412	9,423	1	1	1,176,022	1,154,939
Wyoming	271,519	269,849	58,328	57,956	9,707	9,639	0	0	339,554	337,444
Pacific Contiguous	17,759,448	17,638,590	2,244,884	2,248,410	189,859	195,328	23	24	20,194,214	20,082,352
California	13,033,522	12,981,021	1,620,029	1,642,753	138,428	142,523	15	16	14,791,994	14,766,313
Oregon	1,728,820	1,709,143	237,645	233,680	23,389	24,289	2	2	1,989,856	1,967,114
Washington	2,997,106	2,948,426	387,210	371,977	28,042	NM	6	6	3,412,364	3,348,925
Pacific Noncontiguous	716,740	713,564	114,351	111,540	NM	NM	0	0	833,226	827,251
Alaska	284,984	284,000	53,097	50,535	NM	NM	0	0	339,429	335,890
Hawaii	431,756	429,564	61,254	61,005	787	792	0	0	493,797	491,361
U.S. Total	131,335,983	130,108,685	18,145,698	18,008,942	793,112	799,795	85	80	150,274,878	148,917,502

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
NM = Not Meaningful due to large relative standard error or excessive percentage change.
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Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report. OPTIONS NOCENTER

Table 6.1. Electric Generating Summer Capacity Changes (MW), January 2017 to February 2017

		As of End of January 2017	Activity During February 2017 as Reported to EIA		As of End of February 2017	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*	*81,655.7*	*294.3*	*0.0*	*81,950.0*	*294.3*	*667.8*	*8,903.3*	*1,189.8*	*6,606.6*	*0.0*	*0.0*	*1,189.8*	*6,606.6*	*83,139.8*	*88,556.6*
..... *Offshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*29.3*	*29.3*
..... Wind (Summer Capacity)	Utility Scale Facilities	81,685.0	294.3	0.0	81,979.3	294.3	667.8	8,932.6	1,189.8	6,606.6	0.0	0.0	1,189.8	6,606.6	83,169.1	88,585.9
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*20,135.6*	*192.8*	*0.7*	*20,327.7*	*192.1*	*557.4*	*7,926.2*	*586.4*	*4,758.0*	*0.0*	*0.0*	*586.4*	*4,758.0*	*20,914.1*	*25,085.7*
..... *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	21,893.5	192.8	0.7	22,085.6	192.1	557.4	7,926.2	586.4	4,758.0	0.0	0.0	586.4	4,758.0	22,672.0	26,843.6
..... Conventional Hydroelectric	Utility Scale Facilities	79,986.0	2.0	2.2	79,985.8	-0.2	0.4	178.9	0.0	316.1	0.0	109.2	0.0	206.9	79,985.8	80,192.7
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,943.3*	*0.0*	*0.0*	*8,943.3*	*0.0*	*0.0*	*-12.0*	*62.0*	*105.0*	*10.5*	*10.5*	*51.5*	*94.5*	*8,994.8*	*9,037.8*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,118.1*	*17.1*	*6.6*	*2,128.6*	*10.5*	*12.1*	*42.9*	*8.4*	*18.1*	*0.0*	*1.4*	*8.4*	*16.7*	*2,137.0*	*2,145.3*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,247.3*	*0.0*	*0.0*	*2,247.3*	*0.0*	*0.2*	*-0.9*	*0.0*	*0.0*	*0.0*	*13.6*	*0.0*	*-13.6*	*2,247.3*	*2,233.7*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*771.0*	*0.0*	*0.0*	*771.0*	*0.0*	*0.0*	*-39.7*	*24.0*	*42.4*	*0.0*	*0.0*	*24.0*	*42.4*	*795.0*	*813.4*
..... Biomass Sources Subtotal	Utility Scale Facilities	14,079.7	17.1	6.6	14,090.2	10.5	12.3	-9.7	94.4	165.5	10.5	25.5	83.9	140.0	14,174.1	14,230.2
..... Geothermal	Utility Scale Facilities	2,511.5	0.0	0.0	2,511.5	0.0	0.0	-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***	***200,155.7***	***506.2***	***9.5***	***200,652.4***	***496.7***	***1,237.9***	***16,998.0***	***1,870.6***	***11,883.2***	***10.5***	***194.7***	***1,860.1***	***11,688.5***	***202,512.5***	***212,340.9***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*239,947.6*	*887.7*	*43.4*	*240,791.9*	*844.3*	*1,272.7*	*6,754.5*	*57.0*	*13,185.3*	*0.0*	*0.0*	*57.0*	*13,185.3*	*240,848.9*	*253,977.2*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*126,828.1*	*81.7*	*181.6*	*126,728.2*	*-99.9*	*-18.9*	*3,081.5*	*377.0*	*1,430.0*	*7.3*	*197.5*	*369.7*	*1,232.5*	*127,097.9*	*127,960.7*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*77,270.5*	*12.7*	*118.5*	*77,164.7*	*-105.8*	*738.5*	*-1,066.5*	*0.0*	*0.0*	*0.0*	*1,694.0*	*0.0*	*-1,694.0*	*77,164.7*	*75,470.7*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*4,205.8*	*47.0*	*2.8*	*4,250.0*	*44.2*	*211.2*	*669.3*	*40.8*	*139.0*	*0.9*	*0.9*	*39.9*	*138.1*	*4,289.9*	*4,388.1*
..... *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*	*116.3*	*0.1*	*0.0*	*116.4*	*0.1*	*0.1*	*9.3*	*0.0*	*29.2*	*0.0*	*0.0*	*0.0*	*29.2*	*116.4*	*145.6*
..... Natural Gas Subtotal	Utility Scale Facilities	448,478.3	1,029.2	346.3	449,161.2	682.9	2,203.6	9,448.1	474.8	14,783.5	8.2	1,892.4	466.6	12,891.1	449,627.8	462,052.3
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*268,354.6*	*115.3*	*6.3*	*268,463.6*	*109.0*	*-782.3*	*-9,878.0*	*0.0*	*0.0*	*188.1*	*4,888.1*	*-188.1*	*-4,888.1*	*268,275.5*	*263,575.5*
..... *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	269,169.6	115.3	6.3	269,278.6	109.0	-782.3	-9,878.0	0.0	0.0	188.1	4,888.1	-188.1	-4,888.1	269,090.5	264,390.5
..... Petroleum Coke	Utility Scale Facilities	1,540.3	0.0	0.0	1,540.3	0.0	0.0	-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	34,854.8	17.5	66.0	34,806.3	-48.5	-51.3	-215.6	6.0	21.3	13.7	508.3	-7.7	-487.0	34,798.6	34,319.3
..... Other Gases	Utility Scale Facilities	2,497.2	0.0	0.0	2,497.2	0.0	0.0	-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***	***756,540.2***	***1,162.0***	***418.6***	***757,283.6***	***743.4***	***1,370.0***	***-852.7***	***480.8***	***14,804.8***	***210.0***	***7,288.8***	***270.8***	***7,516.0***	***757,554.4***	***764,799.6***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,670.1	0.0	0.0	22,670.1	0.0	0.0	73.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0
..... Batteries	Utility Scale Facilities	549.7	7.5	0.0	557.2	7.5	17.5	183.0	72.0	133.1	0.0	0.0	72.0	133.1	629.2	690.3
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,263.8***	***7.5***	***0.0***	***23,271.3***	***7.5***	***17.5***	***256.0***	***72.0***	***247.1***	***0.0***	***0.0***	***72.0***	***247.1***	***23,343.3***	***23,518.4***
... Nuclear	***Utility Scale Facilities***	***99,315.9***	***24.6***	***13.0***	***99,327.5***	***11.6***	***11.6***	***655.5***	***0.0***	***20.0***	***0.0***	***0.0***	***0.0***	***20.0***	***99,327.5***	***99,347.5***
... All Other	***Utility Scale Facilities***	***1,484.8***	***0.0***	***0.0***	***1,484.8***	***0.0***	***0.0***	***24.4***	***1.5***	***30.9***	***0.0***	***0.0***	***1.5***	***30.9***	***1,486.3***	***1,515.7***
TOTAL	**UTILITY SCALE FACILITIES**	**1,080,760.4**	**1,700.3**	**441.1**	**1,082,019.6**	**1,259.2**	**2,637.0**	**17,081.2**	**2,424.9**	**26,986.0**	**220.5**	**7,483.5**	**2,204.4**	**19,502.5**	**1,084,224.0**	**1,101,522.1**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*13,348.4*			*13,807.7*	*459.2*	*624.5*	*3,321.1*								
..... Estimated Total Solar Photovoltaic	All Facilities	33,484.0			34,135.4	651.3	1,181.9	11,247.3								
... Estimated Total Solar	***All Facilities***	***35,241.9***			***35,893.3***	***651.3***	***1,181.9***	***11,247.3***								

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-861M, 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 - February 2017

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
2016	19,770.3	13,183.2	32,953.5
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
Year 2017			
January	20,135.6	13,348.4	33,484.0
February	20,327.7	13,807.7	34,135.4

Values are preliminary.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-826, Form EIA-861 and from

Table 6.1.B. Estimated Net Summer Solar Photovoltaic Capacity From Small Scale Facilities by Sector (Megawatts):
2014 - February 2017

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
2016	7,421.2	4,680.8	1,081.2	13,183.2
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
Year 2017				
January	7,548.4	4,710.9	1,089.1	13,348.4
February	7,890.4	4,704.1	1,213.2	13,807.7

Values are preliminary.

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

Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State, February 2017 and 2016 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	5,486.9	5,031.8	22,720.5	22,759.5	1,797.4	1,797.4	21.0	4.0	4,012.9	4,018.0	48.0	48.0	34,086.7	33,658.7
Connecticut	344.7	333.5	6,306.9	6,312.1	29.4	29.4	0.8	0.0	2,087.8	2,087.8	26.0	26.0	8,795.6	8,788.8
Maine	2,443.3	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	4,924.0	4,615.0
Massachusetts	1,075.1	998.4	9,786.9	9,843.0	1,768.0	1,768.0	2.0	2.0	677.2	682.3	0.0	0.0	13,309.2	13,293.7
New Hampshire	933.4	931.0	2,270.2	2,270.9	0.0	0.0	0.0	0.0	1,247.9	1,247.9	0.0	0.0	4,451.5	4,449.8
Rhode Island	100.1	57.3	1,814.3	1,791.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,914.4	1,848.6
Vermont	590.3	561.1	99.7	99.7	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	692.0	662.8
Middle Atlantic	10,958.9	10,699.6	69,279.3	68,019.2	3,409.1	3,409.1	70.5	60.0	19,237.3	19,224.5	11.2	11.2	102,966.3	101,423.6
New Jersey	856.4	728.9	13,581.6	13,539.5	420.0	420.0	0.0	0.0	4,107.9	4,107.9	11.2	11.2	18,977.1	18,807.5
New York	7,204.2	7,115.9	25,959.9	26,310.1	1,406.1	1,406.1	20.0	20.0	5,410.4	5,397.6	0.0	0.0	40,000.6	40,249.7
Pennsylvania	2,898.3	2,854.8	29,737.8	28,169.6	1,583.0	1,583.0	50.5	40.0	9,719.0	9,719.0	0.0	0.0	43,988.6	42,366.4
East North Central	10,819.8	10,208.0	113,693.9	116,165.7	2,037.0	1,964.0	187.4	150.4	18,900.0	18,896.1	110.1	109.1	145,748.2	147,493.3
Illinois	4,174.8	3,977.0	29,485.4	29,896.4	0.0	0.0	112.4	112.4	11,589.6	11,589.6	0.0	0.0	45,362.2	45,575.4
Indiana	2,200.2	2,159.5	23,103.5	24,167.9	0.0	0.0	22.0	2.0	0.0	0.0	89.0	88.0	25,414.7	26,417.4
Michigan	2,486.1	2,255.4	20,963.1	21,915.0	2,037.0	1,964.0	0.0	0.0	3,980.4	3,976.5	0.0	0.0	29,466.6	30,110.9
Ohio	840.3	715.6	25,801.8	25,835.0	0.0	0.0	53.0	36.0	2,134.0	2,134.0	0.0	0.0	28,829.1	28,720.6
Wisconsin	1,118.4	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	16,675.6	16,669.0
West North Central	24,603.9	21,455.0	60,807.7	61,068.9	657.0	657.0	2.0	2.0	5,377.4	5,855.5	24.5	24.5	91,472.5	89,062.9
Iowa	6,882.5	6,351.1	9,563.0	9,950.5	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,046.9	16,903.0
Kansas	4,472.0	3,789.9	9,782.3	9,569.3	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	15,430.1	14,535.0
Minnesota	4,450.6	3,916.0	10,180.0	10,160.6	0.0	0.0	1.0	1.0	1,647.0	1,647.0	18.4	18.4	16,297.0	15,743.0
Missouri	1,242.2	1,035.0	18,628.7	18,845.6	657.0	657.0	1.0	1.0	1,190.0	1,190.0	0.0	0.0	21,718.9	21,728.6
Nebraska	1,629.5	1,185.7	6,239.9	6,237.1	0.0	0.0	0.0	0.0	764.0	1,242.1	0.0	0.0	8,633.4	8,664.9
North Dakota	3,490.3	2,741.5	4,726.7	4,615.5	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,222.3	7,362.3
South Dakota	2,436.8	2,435.8	1,687.1	1,690.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,123.9	4,126.1
South Atlantic	16,481.1	14,330.3	162,184.6	157,659.7	7,905.2	7,905.2	77.5	77.5	24,578.6	24,578.6	509.7	509.7	211,736.7	205,061.0
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	1,686.3	1,425.5	55,816.0	53,037.6	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	348.7	61,423.0	58,383.8
Georgia	3,926.0	3,211.2	26,952.7	27,190.9	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	0.0	0.0	36,802.9	36,326.3
Maryland	1,057.7	1,024.7	10,282.7	9,630.7	0.0	0.0	11.0	11.0	1,707.8	1,707.8	0.0	0.0	13,059.2	12,374.2
North Carolina	5,050.2	4,136.8	22,021.3	22,021.3	86.0	86.0	0.0	0.0	5,113.6	5,113.6	161.0	161.0	32,432.1	31,518.7
South Carolina	1,807.2	1,790.4	11,633.0	11,633.0	2,716.0	2,716.0	0.0	0.0	6,556.2	6,556.2	0.0	0.0	22,712.4	22,695.6
Virginia	1,863.8	1,754.8	17,947.6	16,615.8	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	26,620.4	25,179.6
West Virginia	1,033.0	930.0	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	15,158.8
East South Central	8,318.7	8,111.0	65,840.7	67,273.3	1,616.3	1,616.3	0.0	0.0	10,990.1	9,868.1	1.4	1.4	86,767.2	86,870.1
Alabama	4,014.9	3,939.9	20,216.1	21,398.5	0.0	0.0	0.0	0.0	5,066.4	5,066.4	0.0	0.0	29,297.4	30,404.8
Kentucky	1,112.9	1,007.3	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	20,160.8
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	12,304.7	12,313.9	1,616.3	1,616.3	0.0	0.0	4,522.7	3,400.7	0.0	0.0	21,356.8	20,220.0
West South Central	32,142.9	27,351.2	143,600.1	145,857.7	286.0	286.0	41.0	40.0	8,896.2	8,896.2	527.2	512.2	185,493.4	182,943.3
Arkansas	1,591.6	1,590.6	11,256.6	11,284.8	28.0	28.0	0.0	0.0	1,808.5	1,808.5	0.0	0.0	14,684.7	14,711.9
Louisiana	687.1	687.1	21,229.0	23,176.6	0.0	0.0	0.0	0.0	2,127.7	2,127.7	290.9	275.9	24,334.7	26,267.3
Oklahoma	7,582.4	5,939.7	18,218.2	18,635.4	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	26,058.6	24,833.1
Texas	22,281.8	19,133.8	92,896.3	92,760.9	0.0	0.0	41.0	40.0	4,960.0	4,960.0	236.3	236.3	120,415.4	117,131.0
Mountain	24,828.3	22,331.9	63,948.2	64,069.6	778.8	778.8	12.6	2.6	3,937.0	3,937.0	119.8	111.4	93,624.7	91,231.3
Arizona	4,969.2	4,541.4	19,382.4	19,382.4	216.3	216.3	10.0	0.0	3,937.0	3,937.0	0.0	0.0	28,514.9	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	3,293.9	2,676.0	8,255.1	8,258.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,549.0	10,934.7
New Mexico	1,710.3	1,517.8	6,815.3	6,936.9	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,528.2	8,457.3
Utah	1,580.1	834.4	7,467.4	7,462.4	0.0	0.0	0.0	0.0	0.0	0.0	40.2	31.8	9,087.7	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	65,964.2	63,055.7	50,896.0	51,152.1	4,183.3	4,183.3	133.2	25.7	3,398.0	3,398.0	106.3	106.3	124,681.0	121,921.1
California	29,047.5	26,292.3	41,708.5	42,484.6	3,869.3	3,869.3	123.0	17.5	2,240.0	2,240.0	106.3	106.3	77,094.6	75,010.0
Oregon	12,129.6	12,041.1	4,372.8	3,859.8	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,507.4	15,905.9
Washington	24,787.1	24,722.3	4,814.7	4,807.7	314.0	314.0	5.2	3.2	1,158.0	1,158.0	0.0	0.0	31,079.0	31,005.2
Pacific Noncontiguous	1,047.7	1,079.9	4,312.6	4,110.6	0.0	0.0	56.0	56.0	0.0	0.0	26.6	26.6	5,442.9	5,273.1
Alaska	515.2	508.7	2,255.4	2,053.4	0.0	0.0	29.0	29.0	0.0	0.0	0.0	0.0	2,799.6	2,591.1
Hawaii	532.5	571.2	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	2,682.0
U.S. Total	200,652.4	183,654.4	757,283.6	758,136.3	22,670.1	22,597.1	601.2	418.2	99,327.5	98,672.0	1,484.8	1,460.4	1,082,019.6	1,064,938.4

NM = Not meaningful due to large relative standard error.
Values are preliminary.

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

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

Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, February 2017 and 2016 (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	
	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	1,348.0	1,011.3	528.5	421.7	0.0	0.0	1,953.8	1,951.6	1,656.6	1,647.2	0.0	0.0	5,486.9	5,031.8	1,468.1	1,102.1	1,996.6	1,523.8	1,996.6	1,523.8
Connecticut	1.1	1.1	22.2	11.0	0.0	0.0	122.2	122.2	199.2	199.2	0.0	0.0	344.7	333.5	274.0	193.7	296.2	204.7	296.2	204.7
Maine	898.8	612.8	0.0	0.0	0.0	0.0	728.7	728.9	815.8	808.8	0.0	0.0	2,443.3	2,150.5	24.5	17.8	24.5	17.8	24.5	17.8
Massachusetts	94.5	86.6	431.4	362.6	0.0	0.0	265.9	265.9	283.3	283.3	0.0	0.0	1,075.1	998.4	1,010.2	795.9	1,441.6	1,158.5	1,441.6	1,158.5
New Hampshire	183.1	183.1	0.0	0.0	0.0	0.0	504.8	504.8	245.5	243.1	0.0	0.0	933.4	931.0	58.8	30.4	58.8	30.4	58.8	30.4
Rhode Island	50.3	7.5	10.2	10.2	0.0	0.0	2.7	2.7	36.9	36.9	0.0	0.0	100.1	57.3	21.4	11.9	31.6	22.1	31.6	22.1
Vermont	120.2	120.2	64.7	37.9	0.0	0.0	329.5	327.1	75.9	75.9	0.0	0.0	590.3	561.1	79.2	52.4	143.9	90.3	143.9	90.3
Middle Atlantic	3,205.7	3,088.1	762.1	606.4	0.0	0.0	5,623.5	5,623.5	1,367.6	1,381.6	0.0	0.0	10,958.9	10,699.6	2,363.0	1,827.8	3,125.1	2,434.2	3,125.1	2,434.2
New Jersey	7.6	7.6	607.4	479.9	0.0	0.0	12.3	12.3	229.1	229.1	0.0	0.0	856.4	728.9	1,327.8	1,070.0	1,935.2	1,549.9	1,935.2	1,549.9
New York	1,824.7	1,747.0	108.3	82.1	0.0	0.0	4,711.6	4,711.6	559.6	575.2	0.0	0.0	7,204.2	7,115.9	794.7	566.0	903.0	648.1	903.0	648.1
Pennsylvania	1,373.4	1,333.5	46.4	44.4	0.0	0.0	899.6	899.6	578.9	577.3	0.0	0.0	2,898.3	2,854.8	240.5	191.8	286.9	236.2	286.9	236.2
East North Central	8,327.3	7,814.1	292.6	212.3	0.0	0.0	913.2	910.3	1,286.7	1,271.3	0.0	0.0	10,819.8	10,208.0	208.2	153.5	500.8	365.8	500.8	365.8
Illinois	3,983.8	3,799.8	32.8	32.8	0.0	0.0	34.1	34.1	124.1	110.3	0.0	0.0	4,174.8	3,977.0	27.5	22.7	60.3	55.5	60.3	55.5
Indiana	1,889.7	1,889.7	172.6	131.9	0.0	0.0	60.4	60.4	77.5	77.5	0.0	0.0	2,200.2	2,159.5	15.7	8.5	188.3	140.4	188.3	140.4
Michigan	1,588.5	1,360.1	12.5	3.9	0.0	0.0	324.6	330.9	560.5	560.5	0.0	0.0	2,486.1	2,255.4	NM	29.2	NM	33.1	NM	33.1
Ohio	533.9	433.1	66.6	42.7	0.0	0.0	101.9	101.9	137.9	137.9	0.0	0.0	840.3	715.6	87.1	71.7	153.7	114.4	153.7	114.4
Wisconsin	331.4	331.4	8.1	1.0	0.0	0.0	392.2	383.0	386.7	385.1	0.0	0.0	1,118.4	1,100.5	32.5	21.4	40.6	22.4	40.6	22.4
West North Central	20,491.5	17,606.7	283.4	19.3	0.0	0.0	3,278.1	3,278.1	550.9	550.9	0.0	0.0	24,603.9	21,455.0	210.6	162.7	494.0	182.0	494.0	182.0
Iowa	6,712.6	6,183.0	1.8	0.0	0.0	0.0	144.9	144.9	23.2	23.2	0.0	0.0	6,882.5	6,351.1	47.8	35.5	49.6	35.5	49.6	35.5
Kansas	4,455.0	3,772.9	1.0	1.0	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	4,472.0	3,789.9	7.4	5.3	8.4	6.3	8.4	6.3
Minnesota	3,531.7	3,240.7	247.6	4.0	0.0	0.0	194.6	194.6	476.7	476.7	0.0	0.0	4,450.6	3,916.0	31.9	22.1	279.5	26.1	279.5	26.1
Missouri	654.3	458.5	25.7	14.3	0.0	0.0	545.7	545.7	16.5	16.5	0.0	0.0	1,242.2	1,035.0	120.2	97.8	145.9	112.1	145.9	112.1
Nebraska	1,329.6	892.1	6.3	0.0	0.0	0.0	277.9	277.9	15.7	15.7	0.0	0.0	1,629.5	1,185.7	2.4	1.3	8.7	1.3	8.7	1.3
North Dakota	2,970.5	2,221.7	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	3,490.3	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	0.7	0.5	1.7	0.5	1.7	0.5
South Atlantic	1,086.3	775.3	3,962.4	2,132.7	0.0	0.0	7,251.3	7,249.3	4,181.1	4,173.0	0.0	0.0	16,481.1	14,330.3	1,227.8	818.9	5,190.2	2,951.6	5,190.2	2,951.6
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	86.2	64.6	116.9	95.3	116.9	95.3
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	43.1	24.5	43.1	24.5	43.1	24.5
Florida	0.0	0.0	344.8	82.4	0.0	0.0	54.5	54.5	1,287.0	1,288.6	0.0	0.0	1,686.3	1,425.5	145.5	127.1	490.3	209.5	490.3	209.5
Georgia	0.0	0.0	981.1	270.3	0.0	0.0	2,047.1	2,045.1	897.8	895.8	0.0	0.0	3,926.0	3,211.2	NM	97.6	NM	367.9	NM	367.9
Maryland	190.0	190.0	135.7	101.6	0.0	0.0	590.0	590.0	142.0	143.1	0.0	0.0	1,057.7	1,024.7	599.9	380.5	735.6	482.1	735.6	482.1
North Carolina	208.0	0.0	2,345.4	1,645.2	0.0	0.0	2,004.1	2,004.1	492.7	487.5	0.0	0.0	5,050.2	4,136.8	114.8	88.9	2,460.2	1,734.1	2,460.2	1,734.1
South Carolina	0.0	0.0	19.3	2.5	0.0	0.0	1,345.1	1,345.1	442.8	442.8	0.0	0.0	1,807.2	1,790.4	66.1	8.5	85.4	11.0	85.4	11.0
Virginia	0.0	0.0	105.4	0.0	0.0	0.0	866.0	866.0	892.4	888.8	0.0	0.0	1,863.8	1,754.8	41.3	23.6	146.7	23.6	146.7	23.6
West Virginia	686.3	583.3	0.0	0.0	0.0	0.0	344.5	344.5	2.2	2.2	0.0	0.0	1,033.0	930.0	4.7	3.6	4.7	3.6	4.7	3.6
East South Central	29.1	29.1	157.3	45.2	0.0	0.0	6,921.8	6,826.2	1,210.5	1,210.5	0.0	0.0	8,318.7	8,111.0	59.3	55.0	216.6	100.2	216.6	100.2
Alabama	0.0	0.0	75.0	0.0	0.0	0.0	3,271.0	3,271.0	668.9	668.9	0.0	0.0	4,014.9	3,939.9	NM	2.3	NM	2.3	NM	2.3
Kentucky	0.0	0.0	10.0	0.0	0.0	0.0	1,032.2	936.6	70.7	70.7	0.0	0.0	1,112.9	1,007.3	12.6	10.3	22.6	10.3	22.6	10.3
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	3.7	2.9	6.8	2.9	6.8	2.9
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	39.8	39.5	109.0	84.7	109.0	84.7
West South Central	27,189.0	22,659.3	594.4	332.4	0.0	0.0	2,986.5	2,986.5	1,373.0	1,373.0	0.0	0.0	32,142.9	27,351.2	415.5	284.5	1,009.9	616.9	1,009.9	616.9
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	5.7	4.1	18.7	16.1	18.7	16.1
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	125.7	108.1	125.7	108.1	125.7	108.1
Oklahoma	6,644.1	5,001.4	2.5	2.5	0.0	0.0	859.6	859.6	76.2	76.2	0.0	0.0	7,582.4	5,939.7	13.6	2.8	16.1	5.3	16.1	5.3
Texas	20,544.9	17,657.9	578.9	317.9	0.0	0.0	668.7	668.7	489.3	489.3	0.0	0.0	22,281.8	19,133.8	270.5	169.5	849.4	487.4	849.4	487.4
Mountain	8,068.9	7,839.3	4,992.6	2,727.2	473.9	473.9	10,561.7	10,560.5	186.4	186.2	544.8	544.8	24,828.3	22,331.9	1,638.0	1,376.2	6,630.6	4,103.4	7,104.5	4,577.3
Arizona	267.3	267.3	1,654.9	1,227.1	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	4,969.2	4,541.4	921.1	791.1	2,576.0	2,018.2	2,871.4	2,313.6
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	295.5	263.5	713.0	455.5	713.0	455.5
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	7.7	5.0	127.7	5.0	127.7	5.0
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	8.5	6.3	8.5	6.3	8.5	6.3
Nevada	150.0	150.0	1,444.2	826.3	178.5	178.5	1,051.4	1,051.4	9.6	9.6	460.2	460.2	3,293.9	2,676.0	171.6	172.1	1,615.8	998.4	1,794.3	1,176.9
New Mexico	1,112.3	1,112.3	507.9	315.4	0.0	0.0	82.9	82.9	5.6	5.6	1.6	1.6	1,710.3	1,517.8	98.3	77.6	606.2	393.0	606.2	393.0
Utah	388.2	324.4	848.1	166.4	0.0	0.0	256.4	256.4	14.4	14.2	73.0	73.0	1,580.1	834.4	132.8	58.7	980.9	225.1	980.9	225.1
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	2.5	1.9	2.5	1.9	2.5	1.9
Pacific Contiguous	11,967.3	11,957.3	8,703.7	5,860.1	1,284.0	1,284.0	40,022.4	39,954.8	2,063.1	2,045.8	1,923.7	1,953.7	65,964.2	63,055.7	5,686.4	4,315.6	14,390.1	10,175.7	15,674.1	11,459.7
California	5,726.8	5,726.8	8,603.3	5,838.4	1,284.0	1,284.0	10,186.7	10,186.7	1,342.5	1,322.2	1,904.2	1,934.2	29,047.5	26,292.3	5,506.1	4,183.0	14,109.4	10,021.4	15,393.4	11,305.4
Oregon	3,167.4	3,157.4	99.9	21.2	0.0	0.0	8,525.2	8,525.4	317.6	317.6	19.5	19.5	12,129.6	12,041.1	103.0	73.1	202.9	94.3	202.9	94.3
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,310.5	21,242.7	403.0	406.0	0.0	0.0	24,787.1	24,722.3	NM	59.5	NM	60.0	NM	60.0
Pacific Noncontiguous	266.2	266.2	50.7	44.2	0.0	0.0	473.5	466.1	214.3	260.4	43.0	43.0	1,047.7	1,079.9	530.7	390.3	581.4	434.5	581.4	434.5
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	1.6	0.0	1.6	0.0	1.6	0.0
Hawaii	205.6	205.6	50.7	44.2	0.0	0.0	25.9	25.0	207.3	253.4	43.0	43.0	532.5	571.2	529.1	390.3	579.8	434.5	579.8	434.5
U.S. Total	81,979.3	73,046.7	20,327.7	12,401.5	1,757.9	1,757.9	79,985.8	79,806.9	14,090.2	14,099.9	2,511.5	2,541.5	200,652.4	183,654.4	13,807.7	10,486.5	34,135.4	22,888.0	35,893.3	24,645.9

NM = Not meaningful due to large relative standard error.
Values are preliminary.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
Estimated small scale solar photovoltaic capacity is based on data from Form EIA-861M, 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, February 2017 and 2016 (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	
	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016	February 2017	February 2016
New England	11,899.7	11,893.0	1,117.3	1,115.5	648.0	646.5	1,955.3	1,988.3	0.0	0.0	7,100.2	7,116.2	0.0	0.0	22,720.5	22,759.5
Connecticut	2,540.8	2,547.5	479.3	479.3	423.1	421.6	383.4	383.4	0.0	0.0	2,480.3	2,480.3	0.0	0.0	6,306.9	6,312.1
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	5,089.0	5,098.6	337.1	335.3	198.0	198.0	1,038.0	1,071.0	0.0	0.0	3,124.8	3,140.1	0.0	0.0	9,786.9	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	497.3	498.0	0.0	0.0	2,270.2	2,270.9
Rhode Island	1,784.7	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	1,814.3	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	26,303.8	24,621.1	7,556.8	7,599.7	15,203.8	13,211.8	14,618.0	16,993.0	78.6	78.6	5,394.5	5,391.2	123.8	123.8	69,279.3	68,019.2
New Jersey	8,104.3	8,047.5	2,810.4	2,817.1	1,113.2	1,113.2	1,245.0	1,245.0	11.6	11.6	273.7	281.7	23.4	23.4	13,581.6	13,539.5
New York	8,129.0	8,069.1	3,069.0	3,105.2	9,516.8	9,522.0	1,749.6	2,129.6	0.0	0.0	3,495.5	3,484.2	0.0	0.0	25,959.9	26,310.1
Pennsylvania	10,070.5	8,504.5	1,677.4	1,677.4	4,573.8	2,576.6	11,623.4	13,618.4	67.0	67.0	1,625.3	1,625.3	100.4	100.4	29,737.8	28,169.6
East North Central	17,043.4	17,001.6	26,128.0	25,595.3	3,904.8	3,486.6	62,437.3	65,690.1	317.6	521.6	2,722.9	2,727.4	1,139.9	1,143.1	113,693.9	116,165.7
Illinois	3,549.8	3,543.0	10,210.1	10,164.4	281.4	281.4	14,644.6	15,109.6	0.0	0.0	685.0	680.3	114.5	117.7	29,485.4	29,896.4
Indiana	2,480.2	2,480.2	3,206.2	3,127.6	706.1	288.1	15,790.4	17,136.4	70.0	274.0	262.3	273.3	588.3	588.3	23,103.5	24,167.9
Michigan	4,296.5	4,296.5	3,921.9	3,513.5	2,466.0	2,465.8	9,451.0	10,811.5	47.2	47.2	530.5	530.5	250.0	250.0	20,963.1	21,915.0
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	647.7	645.9	187.1	187.1	25,801.8	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	6,027.7	5,917.9	11,469.5	11,380.8	4,114.6	3,617.1	35,122.6	36,016.3	32.0	32.0	4,032.9	4,096.4	8.4	8.4	60,807.7	61,068.9
Iowa	1,125.8	1,125.8	1,193.3	1,105.6	572.8	467.4	5,681.7	6,205.1	32.0	32.0	957.4	1,014.6	0.0	0.0	9,563.0	9,950.5
Kansas	266.0	149.0	2,171.8	2,171.8	2,109.9	2,024.0	4,698.2	4,687.2	0.0	0.0	536.4	537.3	0.0	0.0	9,782.3	9,569.3
Minnesota	2,166.0	2,173.2	2,539.8	2,534.1	375.5	353.8	4,300.1	4,300.1	0.0	0.0	798.6	799.4	0.0	0.0	10,180.0	10,160.6
Missouri	1,837.3	1,837.3	3,390.5	3,395.2	346.0	349.9	11,910.2	12,118.5	0.0	0.0	1,144.7	1,144.7	0.0	0.0	18,628.7	18,845.6
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	111.6	0.0	4,216.4	4,214.4	0.0	0.0	62.3	64.7	8.4	8.4	4,726.7	4,615.5
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	474.0	475.0	0.0	0.0	219.8	222.0	0.0	0.0	1,687.1	1,690.3
South Atlantic	52,446.1	48,550.2	32,728.9	31,109.1	6,977.7	7,070.6	58,031.6	58,781.6	83.8	83.8	11,781.5	11,929.4	135.0	135.0	162,184.6	157,659.7
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	27,976.6	26,245.6	9,117.2	7,480.4	2,893.3	3,034.7	9,984.0	10,341.0	0.0	0.0	5,844.9	5,935.9	0.0	0.0	55,816.0	53,037.6
Georgia	7,949.0	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	26,952.7	27,190.9
Maryland	976.0	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	1,597.9	0.0	0.0	10,282.7	9,630.7
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	296.0	5,547.0	5,547.0	0.0	0.0	525.4	525.4	0.0	0.0	11,633.0	11,633.0
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	2,348.4	2,343.3	0.0	0.0	17,947.6	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	13,005.7	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	65,840.7	67,273.3
Alabama	9,397.8	9,397.8	2,532.2	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	20,216.1	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	3,778.0	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	12,304.7	12,313.9
West South Central	58,949.1	58,956.1	13,365.9	12,815.1	33,048.7	34,865.6	36,436.0	37,420.5	959.3	959.3	181.3	181.3	659.8	659.8	143,600.1	145,857.7
Arkansas	4,602.9	4,602.9	702.8	731.0	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	11,284.8
Louisiana	7,521.4	7,557.4	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	23,176.6
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	40,104.6	40,075.6	9,011.8	8,433.8	19,822.5	19,769.6	23,592.0	24,116.5	63.8	63.8	49.2	49.2	252.4	252.4	92,896.3	92,760.9
Mountain	22,473.3	22,487.3	8,842.0	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	63,948.2	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	5,415.0	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	8,255.1	8,258.7
New Mexico	1,469.0	1,469.0	959.0	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	6,815.3	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	11,859.8	11,447.0	10,311.6	11,890.1	2,015.0	2,015.0	17.0	17.0	422.3	422.3	209.3	209.3	50,896.0	51,152.1
California	19,960.9	19,571.3	10,964.6	10,551.8	10,059.6	11,638.1	90.0	90.0	17.0	17.0	407.1	407.1	209.3	209.3	41,708.5	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	547.0	418.0	654.3	654.3	175.0	175.0	333.8	283.8	0.0	0.0	2,592.9	2,569.9	9.6	9.6	4,312.6	4,110.6
Alaska	547.0	418.0	654.3	654.3	175.0	175.0	153.8	103.8	0.0	0.0	725.3	702.3	0.0	0.0	2,255.4	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	240,791.9	234,037.4	126,728.2	123,646.7	81,641.1	82,029.0	269,278.6	279,156.6	1,540.3	1,744.3	34,806.3	35,021.9	2,497.2	2,500.4	757,283.6	758,136.3

NM = Not meaningful due to large relative standard error.
Values are preliminary.

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

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

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2017

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	60639	AEP Renewables	IPP	Boulder Solar II, LLC	NV	60885	BSII	50.0	Solar Photovoltaic	SUN	PV
2017	1	59050	Algonquin Power Co	IPP	Algonquin SKIC 10 Solar, LLC	CA	60242	SKI10	10.0	Solar Photovoltaic	SUN	PV
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	11	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	12	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	13	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	14	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	15	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	16	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	17	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	18	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	19	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	20	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	21	9.3	Natural Gas Internal Combustion Engine	NG	IC
2017	1	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	22	9.3	Natural Gas Internal Combustion Engine	NG	IC
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
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
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
2017	1	56769	Consolidated Edison Development Inc.	IPP	Oro Loma	CA	59915	ORCA	20.0	Solar Photovoltaic	SUN	PV
2017	1	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Bowling Green	OH	60622	AMPBG	20.0	Solar Photovoltaic	SUN	PV
2017	1	15470	Duke Energy Indiana, LLC	Electric Utility	Crane Solar Facility	IN	60435	XXXXX	7.1	Solar Photovoltaic	SUN	PV
2017	1	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park	IN	60253	SANDE	5.0	Solar Photovoltaic	SUN	PV
2017	1	60304	Innovative Solar 31, LLC	IPP	Innovative Solar 31	NC	60540	IS031	35.0	Solar Photovoltaic	SUN	PV
2017	1	49893	Invenergy Services LLC	IPP	Bethel Wind Farm LLC	TX	60414	GEN1	276.0	Onshore Wind Turbine	WND	WT
2017	1	59973	Marshall Solar Energy Project	IPP	Marshall Solar Energy Project	MN	59875	PV1	62.3	Solar Photovoltaic	SUN	PV
2017	1	59483	Metropolitan Airports Commission	IPP	St. Paul Intl Airport Red & Blue Parking	MN	59709	PV2	0.9	Solar Photovoltaic	SUN	PV
2017	1	60471	Mt. Tom Solar, LLC	IPP	Mt. Tom Solar Project	MA	60906	PV1	4.5	Solar Photovoltaic	SUN	PV
2017	1	60562	Oliver Wind III, LLC	IPP	Oliver Wind III, LLC	ND	60905	WT1	99.3	Onshore Wind Turbine	WND	WT
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS1	0.9	Solar Photovoltaic	SUN	PV
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS2	0.9	Solar Photovoltaic	SUN	PV
2017	1	60439	Orion Community Solar	IPP	Orion Community Solar	MN	60716	OCS3	0.9	Solar Photovoltaic	SUN	PV
2017	1	60438	Paynesville Community Solar	IPP	Paynesville Community Solar	MN	60715	PCS5	0.9	Solar Photovoltaic	SUN	PV
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
2017	1	60520	SoCore Energy LLC	IPP	Mt. Hope DPC Solar	WI	60893	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	1	60520	SoCore Energy LLC	IPP	Sauk DPC Solar	WI	60887	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	1	57313	SolarCity Corporation	IPP	Weber State University - Davis Campus Solar	UT	60821	PV1	1.3	Solar Photovoltaic	SUN	PV
2017	1	59138	SunPower Corporation, Systems	IPP	Wildwood Solar II	CA	59253	PV1	14.7	Solar Photovoltaic	SUN	PV
2017	1	60046	TPE Alta Luna, LLC	IPP	Alta Luna	NM	60258	ALPV1	28.1	Solar Photovoltaic	SUN	PV
2017	1	18454	Tampa Electric Co	Electric Utility	Polk	FL	7242	2CC	459.0	Natural Gas Fired Combined Cycle	NG	CA
2017	1	24211	Tucson Electric Power Co	Electric Utility	Demoss Petrie	AZ	124	BA1	10.0	Batteries	MWH	BA
2017	1	24211	Tucson Electric Power Co	Electric Utility	Fort Huachuca Solar PV Project	AZ	58972	FHUA2	4.1	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS1	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS2	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS3	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS4	0.9	Solar Photovoltaic	SUN	PV
2017	1	60435	Ursa Community Solar	IPP	Ursa Community Solar	MN	60712	UCS5	0.9	Solar Photovoltaic	SUN	PV
2017	1	60419	WakeSun LLC	IPP	WakeSun, LLC	MN	60694	MLC27	1.0	Solar Photovoltaic	SUN	PV
2017	1	60419	WakeSun LLC	IPP	WakeSun, LLC	MN	60694	MLC28	1.0	Solar Photovoltaic	SUN	PV
2017	1	60419	WakeSun LLC	IPP	WakeSun, LLC	MN	60694	MLC29	1.0	Solar Photovoltaic	SUN	PV
2017	2	55918	Acciona Wind Energy USA LLC	IPP	San Roman Wind I, LLC	TX	59712	SRWI	95.3	Onshore Wind Turbine	WND	WT
2017	2	599	Anchorage Municipal Light and Power	Electric Utility	George M Sullivan Generation Plant 2	AK	6559	10	50.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	599	Anchorage Municipal Light and Power	Electric Utility	George M Sullivan Generation Plant 2	AK	6559	11	29.0	Natural Gas Fired Combined Cycle	NG	CA
2017	2	599	Anchorage Municipal Light and Power	Electric Utility	George M Sullivan Generation Plant 2	AK	6559	9	50.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	803	Arizona Public Service Co	Electric Utility	Red Rock	AZ	60467	PV1	40.0	Solar Photovoltaic	SUN	PV
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG2	205.0	Natural Gas Fired Combined Cycle	NG	CT
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	STGEN	316.0	Natural Gas Fired Combined Cycle	NG	CA
2017	2	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT1	41.6	Onshore Wind Turbine	WND	WT
2017	2	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT2	74.5	Onshore Wind Turbine	WND	WT
2017	2	60537	Deerfield Wind Energy, LLC	IPP	Deerfield Wind Energy, LLC	MI	60883	WT3	32.9	Onshore Wind Turbine	WND	WT
2017	2	60501	Farmington Holdco LLC	IPP	Farmington Holdco Solar	MN	60832	FARMI	5.0	Solar Photovoltaic	SUN	PV
2017	2	60507	Fresh Air Energy XXXV, LLC	IPP	Turkey Creek PV1	NC	60000	TRKCK	13.5	Solar Photovoltaic	SUN	PV
2017	2	4361	Ingredion Inc - Stockton	Industrial	Ingredion Stockton	CA	52115	GEN2	6.5	Natural Gas Fired Combustion Turbine	NG	GT
2017	2	60618	Lindberg Field Solar 2, LLC	IPP	Lindberg Field Solar 2	CA	60984	PV1	1.9	Solar Photovoltaic	SUN	PV
2017	2	58887	Michelangelo Wind 3 LLC	IPP	Michelangelo Wind 3 LLC	IA	59053	WT1	3.0	Onshore Wind Turbine	WND	WT
2017	2	12667	Minnesota Municipal Power Agny	Electric Utility	Shakopee Energy Park	MN	60647	SQA01	46.5	Natural Gas Internal Combustion Engine	NG	IC
2017	2	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 4	0.6	Natural Gas Steam Turbine	NG	ST
2017	2	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 5	0.6	Natural Gas Steam Turbine	NG	ST
2017	2	60490	Pine Island Holdco, LLC	IPP	Pine Island Solar	MN	60835	PINEI	3.9	Solar Photovoltaic	SUN	PV
2017	2	60412	Portal Ridge Solar, LLC	IPP	Portal Ridge Solar B, LLC	CA	60310	GEN01	20.0	Solar Photovoltaic	SUN	PV
2017	2	60412	Portal Ridge Solar, LLC	IPP	Portal Ridge Solar C, LLC	CA	60311	GEN01	11.4	Solar Photovoltaic	SUN	PV
2017	2	60336	SDGE Batteries	Electric Utility	El Cajon Energy Storage	CA	60569	SES	7.5	Batteries	MWH	BA
2017	2	60520	SoCore Energy LLC	IPP	Downsville DPC Solar	WI	60892	PV1	1.0	Solar Photovoltaic	SUN	PV
2017	2	60520	SoCore Energy LLC	IPP	Medford DPC Solar	WI	60894	PV1	2.0	Solar Photovoltaic	SUN	PV
2017	2	57313	SolarCity Corporation	IPP	CMEEC - Rogers Rd Solar	CT	60605	PV1	1.5	Solar Photovoltaic	SUN	PV
2017	2	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	1	19.0	Solar Photovoltaic	SUN	PV
2017	2	57081	WGL Energy Systems, Inc	IPP	Lind Solar CSG	MN	60966	S0222	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, and Month, 2017

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	57440	SABIC IP Mt. Vernon, LLC	Industrial	SABIC Innovative Plastics Mt. Vernon	IN	58063	1	3.0	Conventional Steam Coal	BIT	ST

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	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	60571	AEP Onsite Partners	IPP	Canandaigua Westbrook Solar Array	NY	61042	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	3	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	7.0
2017	3	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	7.0
2017	3	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	7.0
2017	3	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	3	60281	Altus Power America Management, LLC	IPP	Spartan	NJ	60755	PV1	8.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.3
2017	3	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	3	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	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	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	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
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	(V) Under construction, more than 50 percent complete	30.0
2017	3	60518	California PV Energy 2, LLC	IPP	Dept of General Services -FTB	CA	60861	PV1	2.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.7
2017	3	60429	Chicago Bridge & Iron Company	IPP	JED Solid Waste Mgmt Renewable LFG 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 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 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 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 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 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	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	3	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	3	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	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	Other Waste Biomass	OBG	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	Other Waste Biomass	OBG	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	Other Waste Biomass	OBG	GT	(V) Under construction, more than 50 percent complete	11.0
2017	3	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	3	5416	Duke Energy Carolinas, LLC	Electric Utility	Monroe Solar Facility	NC	60383	MONPV	27.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	60.0
2017	3	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	3	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	3	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	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	Eastwood Solar	MN	60524	PV1	5.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.5
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	Lawrence Creek Solar	MN	60528	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	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	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	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	3	60457	FLS Energy, Inc	IPP	Franklinton Solar	NC	59708	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	3	58909	Fremont Farm LLC	IPP	Fremont Farm	NC	59103	1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	3	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	3	60343	Hector Farm, LLC	IPP	Hector Farm	NC	60577	1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	3	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	3	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	3	60633	Iron Horse Battery Storage, LLC	IPP	Iron Horse Battery Storage	AZ	60996	BA1	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2017	3	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	3	60198	Kennedy Solar, LLC	IPP	Kennedy Solar, LLC	NC	60397	FLS1	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	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	59026	Michelangelo Wind 1 LLC	IPP	Michelangelo Wind 1 LLC	IA	59231	WT1	3.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	3.0
2017	3	58689	Milan Energy LLC	IPP	Milan	PA	58818	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	7.0
2017	3	58689	Milan Energy LLC	IPP	Milan	PA	58818	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	7.0
2017	3	58689	Milan Energy LLC	IPP	Milan	PA	58818	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	7.0
2017	3	59469	Mt. Home Solar 1, LLC	IPP	Mt. Home Solar 1, LLC	ID	59695	MHPV1	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2017	3	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	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	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	3	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	3	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT3	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	3	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT4	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	3	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT5	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	3	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT6	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	71.2
2017	3	58489	OCI Solar Power	IPP	OCI Alamo 6 LLC	TX	59206	OCIA6	105.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	105.0
2017	3	59025	Optimum Wind 3 LLC	IPP	Optimum Wind 3 LLC	IA	59227	WT1	3.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	3.0
2017	3	59024	Optimum Wind 4 LLC	IPP	Optimum Wind 4 LLC	IA	59226	WT1	3.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	3.0
2017	3	59017	Optimum Wind 5 LLC	IPP	Optimum Wind 5 LLC	IA	59223	WT1	3.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	3.0
2017	3	59018	Optimum Wind 6 LLC	IPP	Optimum Wind 6 LLC	IA	59224	WT1	3.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	3.0
2017	3	59019	Optimum Wind 7 LLC	IPP	Optimum Wind 7 LLC	IA	59225	WT1	3.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	3.0
2017	3	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	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	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	3	60336	SDGE Batteries	Electric Utility	Escondido Energy Storage	CA	60570	SES	30.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	30.0
2017	3	60448	Simcoe Solar	IPP	Simcoe Solar	ID	60748	IDSS	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
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	(U) Under construction, less than or equal to 50 percent complete	2.3
2017	3	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	3	60651	Spring Street Solar 1, LLC	IPP	Spring Street Solar 1	MA	61009	SPRIN	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	3	59338	Spring Valley Farm 2, LLC	IPP	Spring Valley Farm 2, LLC	NC	59593	PV1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	3	60197	St. Pauls Solar 1, LLC	IPP	St. Pauls Solar 1, LLC	NC	60396	FLS1	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
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	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	59021	Venus Wind 3 LLC	IPP	Venus Wind 3 LLC	IA	59230	WT1	3.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	3.0
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	3	59116	WED Coventry Five, LLC	IPP	WED Coventry 5	RI	59313	COV5	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2017	3	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	3	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	3	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	3	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	4	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	4	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	4	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	4	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	4	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	4	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	4	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	4	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	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	(V) Under construction, more than 50 percent complete	1.0
2017	4	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	4	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	4	60588	Aries Community Solar	IPP	Aries Community Solar	MN	60938	AACS4	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

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	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	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	4	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	4	59308	Bearford Farm, LLC	IPP	Bearford Farm Solar Project	NC	59567	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	4	7294	City of Glendale - (CA)	Electric Utility	Glendale Battery Energy Storage System	CA	60974	2BESS	2.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.0
2017	4	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	4	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	4	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	4	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	4	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	4	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	4	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	4	59997	Customized Energy Solutions	IPP	NA 1(Hagerstown)	MD	60213	MPSHG	2.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.0
2017	4	60670	Floyd Road Solar Farm, LLC	IPP	Floyd Road Solar Farm	NC	61031	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	4	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	4	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	IS037	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2017	4	59436	Innovative Solar 47, LLC	IPP	Innovative Solar 47	NC	59666	IS047	33.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	33.8
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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	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	(TS) Construction complete, but not yet in commercial operation	260.5
2017	4	60633	Iron Horse Battery Storage, LLC	IPP	Iron Horse Battery Storage	AZ	60996	PV1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	4	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	4	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	4	60591	Mapleton Community Solar	IPP	Mapleton Community Solar	MN	60941	DMCS3	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	BMCS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	4	60592	Morgan Community Solar	IPP	Morgan Community Solar	MN	60942	BMCS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2017	4	13511	New York State Elec & Gas Corp	Electric Utility	Harris Lake	NY	2528	2	2.3	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	4	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	4	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	4	60400	Phantom Solar, LLC	IPP	Phantom Solar	TX	60774	GEN1	15.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.4
2017	4	16609	San Diego Gas & Electric Co	Electric Utility	Ramona Solar Energy	CA	60995	1	3.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.3
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	60636	SolaireHolman 1, LLC	IPP	SolaireHolman Solar Project	TX	60989	PV1	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2017	4	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	4	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	4	57313	SolarCity Corporation	IPP	Time Warner Cable - Knowles	NY	60904	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	4	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	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	(V) Under construction, more than 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	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	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	4	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	4	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	4	60614	Westside Solar, LLC	IPP	NextEra Westside PV	CA	60981	WS526	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	5	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	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	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	58695	Coronal Development Services	IPP	Gulf Coast Solar Center I	FL	59689	GCSC1	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2017	5	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Front Royal	VA	61055	AMPFR	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2017	5	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	5	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	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	(V) Under construction, more than 50 percent complete	100.0
2017	5	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	5	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP1	2.5	Other Waste Biomass	OBL	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP2	2.5	Other Waste Biomass	OBL	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP3	2.5	Other Waste Biomass	OBL	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP4	2.5	Other Waste Biomass	OBL	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2017	5	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	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	56990	NJR Clean Energy Ventures Corporation	IPP	Pemberton Road I	NJ	61073	PEMB1	9.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	9.9
2017	5	56990	NJR Clean Energy Ventures Corporation	IPP	Pemberton Road II	NJ	61074	PEMB2	9.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	9.9
2017	5	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	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	CMEEC - Navy NE Trident	CT	60608	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	5	57313	SolarCity Corporation	IPP	Garrett County - DPU Treatment Plant	MD	60847	PV1	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2017	5	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	5	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	5	60246	Sunray Energy 2, LLC	IPP	Sunray 2	CA	10437	SUN2	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	10.0
2017	5	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	5	60619	Whitney Point Solar, LLC	IPP	Whitney Point Solar	CA	60975	WS532	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	6	60118	83WI 8ME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2017	6	60248	Agilon Energy LLC	IPP	Chamon Power LLC	TX	60460	CH1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2017	6	60248	Agilon Energy LLC	IPP	Chamon Power LLC	TX	60460	CH2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	50.0
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	60692	Ameresco BWC Wading River LLC	IPP	BWC Wading River One, Two, Three	MA	61069	62381	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
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	60500	Bluesphere Corporate	IPP	Orbit Energy RI	RI	60831	1	3.2	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	3.2
2017	6	60650	Brook Street Solar 1, LLC	IPP	Brook Street Solar 1	MA	61008	BROOK	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2017	6	59365	Capital Power Corporation	IPP	CP Bloom Wind LLC	KS	59888	GEN	178.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	178.2
2017	6	56769	Consolidated Edison Development Inc.	IPP	Blackwell Solar Park	CA	59524	FRBSP	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	6	59997	Customized Energy Solutions	IPP	ESS Fairgrounds	MD	60215	ESSFG	4.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	4.0
2017	6	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	6	59997	Customized Energy Solutions	IPP	ESS Wesel	MD	60214	ESSWL	6.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	6.0
2017	6	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	CT004	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	45.0
2017	6	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	CT005	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	45.0
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

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	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	60252	Friendswood Energy Genco, LLC	IPP	Friendswood Energy	TX	60468	GT-1	117.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	121.5
2017	6	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	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	369.0
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	231.3
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	60695	Lemond Solar Center LLC	IPP	Lemond Solar	MN	61072	LEMND	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2017	6	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	6	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J116	0.9	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.9
2017	6	60645	OEE XXIII LLC	Industrial	Whirlpool Corporation - Marion Wind Farm	OH	61005	W1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	6	60645	OEE XXIII LLC	Industrial	Whirlpool Corporation - Marion Wind Farm	OH	61005	W2	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	6	60645	OEE XXIII LLC	Industrial	Whirlpool Corporation - Marion Wind Farm	OH	61005	W3	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	6	60644	OEE XXIV LLC	Industrial	Whirlpool Corporation - Ottawa Wind Farm	OH	61004	W1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2017	6	60393	Ridgeland Solar Farm I, LLC	IPP	Ridgeland Solar Project	SC	60659	PV1	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
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	CMEEC - Polaris Park Solar	CT	60607	BA1	0.8	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.8
2017	6	57313	SolarCity Corporation	IPP	CMEEC - Polaris Park Solar	CT	60607	PV1	3.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.5
2017	6	57313	SolarCity Corporation	IPP	Hampshire College	MA	60815	PV1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2017	6	57313	SolarCity Corporation	IPP	Hampshire College	MA	60815	PV2	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
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	(TS) Construction complete, but not yet in commercial operation	2.8
2017	6	57313	SolarCity Corporation	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.4
2017	6	57313	SolarCity Corporation	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	BA1	11.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	11.0
2017	6	57313	SolarCity Corporation	IPP	KIUC Kapaia PV and BA Storage Project	HI	60546	PV1	15.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	15.0
2017	6	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	6	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	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	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	6	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	6	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	7	60634	AEM 9Wind LLC	IPP	Sterling I Wind Farm	NM	60991	STER1	29.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	29.9
2017	7	60074	Ajax Solar, LLC	IPP	Ajax Solar	NC	60288	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	7	60513	Bird Machine Solar Farm, LLC	IPP	Bird Machine Solar Farm	MA	60854	BRDMA	3.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.5
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	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	7	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	7	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60590	Gemini Community Solar	IPP	Gemini Community Solar	MN	60940	LGCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	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	7	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	7	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	7	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	7	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	7	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	7	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	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3A	122.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	122.0
2017	7	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	7	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	7	60520	SoCore Energy LLC	IPP	Michael Solar	MN	60971	PV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
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	60073	St. Matthews Solar, LLC	IPP	St. Matthews Solar	SC	60293	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	7	60403	TRS Fuel Cell, LLC	Electric CHP	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	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	7	60594	Vega Community Solar	IPP	Vega Community Solar	MN	60944	NVCS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
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	Apache Solar 1	AZ	60964	AEPSI	17.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	17.0
2017	8	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	8	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	8	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	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	1.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.7
2017	8	58519	Clean Energy Collective LLC	IPP	Weld 1 Community Solar Array	CO	60720	WELD1	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
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	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	8	58970	Ecoplexus, Inc	IPP	American Legion PV 1	NC	59516	AMLEG	16.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.0
2017	8	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	8	58970	Ecoplexus, Inc	IPP	Underwood PV2	NC	60998	UNWD2	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
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	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation Scheid Vineyards	CA	61067	WTG1	1.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	8	60598	Jacumba Solar, LLC	IPP	Jacumba Solar Farm	CA	60947	Q644A	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	IA	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	(TS) Construction complete, but not yet in commercial operation	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

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	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
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	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
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	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
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	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	(U) Under construction, less than or equal to 50 percent complete	9.3
2017	9	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	9	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	9	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	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	West 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	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN4	2.0	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	9	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN5	2.0	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	9	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	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	60575	Scarlet Solar, LLC	IPP	Scarlet Solar	NC	60921	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
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	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	60652	Stafford St Solar 1, LLC	IPP	Stafford St Solar 1	MA	61016	STAF1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60653	Stafford St Solar 2, LLC	IPP	Stafford St Solar 2	MA	61017	STAF2	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2017	9	60654	Stafford St Solar 3, LLC	IPP	Stafford St Solar 3	MA	61018	STAF3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2017	9	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	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	9	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	9	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	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	60617	Buckthorn Wind Project, LLC	IPP	Buckthorn Wind Project	TX	60983	BWIND	100.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.5
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	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	60690	Foundation CA Fund VIII Manager, LLC	IPP	Foundation CDCR LAC	CA	61066	WTG1	1.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.9
2017	10	60556	Fusion Solar Centre, L.L.C	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	59633	Great Bay Solar I LLC	IPP	Great Bay Solar 1	MD	59851	GBS01	57.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	9234	Indiana Municipal Power Agency	Electric Utility	Greenfield Solar Park	IN	61053	SGREE	2.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.8
2017	10	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park 2	IN	61054	SAND2	8.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	8.1
2017	10	60303	Innovative Solar 42, LLC	IPP	Innovative Solar 42	NC	60539	IS042	71.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	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	10	60576	Ruskin Solar, LLC	IPP	Ruskin Solar	NC	60922	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	10	60520	SoCore Energy LLC	IPP	Dakota Solar	MN	60977	PV1	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	10	60520	SoCore Energy LLC	IPP	Dakota Solar	MN	60977	PV2	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2017	10	60520	SoCore Energy LLC	IPP	Dakota Solar	MN	60977	PV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
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	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	9.7
2017	10	58661	Sustainable Power Group, LLC	IPP	Marin Clean Energy Solar One	CA	61013	MCES1	10.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.5
2017	10	59598	Tooele Army Depot	IPP	Tooele Army Depot	UT	59817	PV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2017	10	19876	Virginia Electric & Power Co	Electric Utility	Remington Solar Facility	VA	59685	01	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	11	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	11	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	11	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	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	58468	Dominion Renewable Energy	IPP	Scott-II Solar LLC	VA	60968	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
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	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	11	60649	Redbrook Solar 1, LLC	IPP	Redbrook Solar 1	MA	61007	REDBR	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
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	11	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	12	60277	54 KR 8me LLC	IPP	Redwood 4 Solar Farm	CA	60490	RW4SF	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	12	60347	AL Solar A, LLC	IPP	LaFayette Solar Farm	AL	60583	PV1	79.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	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	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	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	12	15399	Avangrid Renewables Inc	IPP	Deerfield Wind LLC	VT	61039	WT1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
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	15399	Avangrid Renewables Inc	IPP	Roaring Brook, LLC	NY	61041	WT1	78.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	78.0
2017	12	15399	Avangrid Renewables Inc	IPP	Twin Buttes II Wind	CO	61040	WT1	75.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	75.0

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	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	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	12	60655	Bullock Road Solar 1, LLC	IPP	Bullock Road Solar 1	MA	61010	BULLO	3.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.9
2017	12	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	12	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	12	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	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	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	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
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
2017	12	56769	Consolidated Edison Development Inc.	IPP	Upton County Solar	TX	60581	UCTX	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2017	12	60380	Cork Oak Solar LLC	IPP	Cork Oak Solar	NC	60637	NC160	26.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	228.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	228.0
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	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	58135	Ecos Energy LLC	IPP	Apple Hill Solar	VT	61037	APPL	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	12	58135	Ecos Energy LLC	IPP	Weybridge 1 Solar	VT	61038	WEY1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
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	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Hammock Solar	FL	61024	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Horizon Solar Energy Center	FL	61021	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Indian River Solar Center	FL	61020	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2017	12	6452	Florida Power & Light Co	Electric Utility	Wildflower Solar Energy Center	FL	61050	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
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	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
2017	12	60534	Halifax Solar LLC	IPP	Halifax Solar LLC	NC	60884	HALFX	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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	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	59446	Innovative Solar 55, LLC	IPP	Innovative Solar 55	NC	59676	IS044	6.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.5
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	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	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	(L) Regulatory approvals pending. Not under construction	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	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	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	(V) Under construction, more than 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	12341	MidAmerican Energy Co	Electric Utility	Beaver Creek Wind	IA	61079	1	170.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2017	12	12341	MidAmerican Energy Co	IPP	Prairie Wind Farm	IA	60873	PWE	168.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	168.0
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	60635	Northern Cardinal Solar LLC	IPP	Northern Cardinal Solar	NC	60992	NCARD	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2017	12	60685	Novel Energy Solutions	IPP	Novel - OYA of Mapleton	MN	61060	0000I	3.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.5
2017	12	60685	Novel Energy Solutions	IPP	Novel CSG of Kramer	MN	61058	0000B	3.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.3
2017	12	60685	Novel Energy Solutions	IPP	Novel OYA of Osakis	MN	61059	0000G	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	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	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	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	(T) Regulatory approvals received. Not under construction	98.0
2017	12	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	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	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	12	60648	SCDA Solar 1, LLC	IPP	SCDA Solar 1	CA	61006	SCAIR	7.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.0
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	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	57313	SolarCity Corporation	IPP	CMEEC - Hollyhock Solar	CT	60606	PV1	6.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	6.0
2017	12	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	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	(U) Under construction, less than or equal to 50 percent complete	10.5
2017	12	60381	Sunflower Solar LLC	IPP	Sunflower Solar	NC	60638	NC160	20.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	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	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	12	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	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	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	56204	Diamond Generating Corp- Ops 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 Corp- Ops 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 Corp- Ops 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	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
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

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	GT6	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	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	244.8
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	244.8
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	244.8
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	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	57484	Foundation CA Fund V Manager, LLC	IPP	Foundation NWNA	CA	58114	WTG3	1.9	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.9
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	60018	NET Power, LLC	IPP	NET Power La Porte Station	TX	60910	NPLPS	25.5	Other Natural Gas	NG	OT	(V) Under construction, more than 50 percent complete	25.5
2018	2	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
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	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
2018	3	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
2018	3	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
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	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
2018	3	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
2018	3	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
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	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
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	60076	Crawford Solar, LLC	IPP	Crawford Solar	NC	60294	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
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	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
2018	3	6452	Florida Power & Light Co	Electric Utility	Barefoot Bay Solar Energy Center	FL	61051	1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.5
2018	3	6452	Florida Power & Light Co	Electric Utility	Blue Cypress Solar Energy Center	FL	61029	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2018	3	6452	Florida Power & Light Co	Electric Utility	Loggerhead Solar Energy Center	FL	61052	1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.5
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	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
2018	3	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
2018	3	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
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	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
2018	3	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
2018	3	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
2018	3	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
2018	3	60509	Thigpen Farms Solar, LLC	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	3	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
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	58970	Ecoplexus, Inc	IPP	Everett PV1	NC	60997	EVRT1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	4	58135	Ecos Energy LLC	IPP	Lake Perris Solar	CA	60973	LKPR	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	4	58135	Ecos Energy LLC	IPP	San Jacinto Solar	CA	60972	SJAC	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2018	4	49893	Invenergy Services LLC	IPP	Santa Rita Wind Energy	TX	60987	GEN1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
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	59701	RE Tranquillity 8 LLC	IPP	RE Tranquillity 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	205.3
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	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
2018	6	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
2018	6	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
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	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	6	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	6	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

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	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	6	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
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
2018	6	13402	Nevada Irrigation District	IPP	Loma Rica Hydroelectric Powerhouse	CA	60988	HY1	1.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.4
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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	106.0
2018	6	60647	RES Cactus Flats Wind Energy, LLC	IPP	Cactus Flats Wind Energy Project	TX	61001	WT1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
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	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	6	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	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
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	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
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	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
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	9	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
2018	9	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	9.3
2018	9	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	9.3
2018	9	60499	Eastway Solar, LLC	IPP	Eastway Solar, LLC	NC	60829	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2018	9	60457	FLS Energy, Inc	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	9	60498	Osceola Solar, LLC	IPP	Osceola Solar, LLC	NC	60828	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC1	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC2	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC3	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC4	18.5	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.8
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	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	2.7
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	60691	AES LAWAI SOLAR, LLC	IPP	AES LAWAI SOLAR	HI	61068	LAWA1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	11	60691	AES LAWAI SOLAR, LLC	IPP	AES LAWAI SOLAR	HI	61068	LAWA2	20.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	20.0
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	60656	Chestnut Solar LLC	IPP	Chestnut Solar	NC	61011	PV1	74.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	74.9
2018	11	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
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	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	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	15399	Avangrid Renewables Inc	IPP	Coyote Ridge	SD	61047	WT1	98.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	98.0
2018	12	15399	Avangrid Renewables Inc	IPP	Gala Solar	OR	61048	PV1	56.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.0
2018	12	15399	Avangrid Renewables Inc	IPP	La Joya NM	NM	61044	WT1	400.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	400.0
2018	12	15399	Avangrid Renewables Inc	IPP	Lund Hill	WA	61045	WT1	60.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.0
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	58190	Bluestem LLC	IPP	Seward Wind Farm	NE	61056	T1	1,836.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	1.7
2018	12	58190	Bluestem LLC	IPP	West Liberty Wind Farm	IA	61057	T1	1,980.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2018	12	58190	Bluestem LLC	IPP	West Liberty Wind Farm	IA	61057	T2	1,980.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
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	58840	Copenhagen Wind Farm, LLC	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	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

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	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	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
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	JWP1	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	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE2	240.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	240.0
2018	12	60668	Heart of Texas Wind, LLC	IPP	Heart of Texas Wind Project	TX	61032	HTX	160.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	160.0
2018	12	54769	INEOS USA LLC	Industrial	Chocolate Bayou Works	TX	10154	GEN2	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	45.0
2018	12	54769	INEOS USA LLC	Industrial	Chocolate Bayou Works	TX	10154	GEN3	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	45.0
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
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	60569	Lincoln Land Wind, LLC	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	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	60601	River Otter Solar, LLC	IPP	River Otter Solar	NC	60969	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	60693	Saratoga Wind Energy LLC	IPP	Saratoga Wind Farm	IA	61070	SWE	66.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	66.0
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	IL	60871	HOMES	35.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	35.0
2018	12	60568	Sugar Creek Wind One LLC	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	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	60602	Tyler Solar, LLC	IPP	Tyler Solar	NC	60970	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
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	19876	Virginia Electric & Power Co	Electric Utility	Hollyfield	VA	61023	1	17.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	17.0
2018	12	60694	Washburn Wind Energy LLC	IPP	Washburn Wind Farm	IA	61071	WASH	70.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	70.0
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	60667	Aksamit Energy Development	IPP	Monument Road	NE	61033	MR001	66.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	66.0
2019	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	1	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2019	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	2	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
2019	1	60687	Alpine Pacific Utilities Hydro	IPP	Fresno Dam Site Water Power Project	MT	61061	3	0.5	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.5
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	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	2	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2019	1	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	3	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2019	1	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	4	390.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	390.0
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	59458	Landfill Energy Systems Florida	IPP	Sarasota County LFGTE Facility	FL	59686	LESF4	1.6	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
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	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
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	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
2019	4	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
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	60672	Birdsboro Power LLC	IPP	Birdsboro Power	PA	61035	GEN1	476.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	488.0
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

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	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	56615	First Solar Project Development	IPP	Morada del Sol, LLC	TX	61049	PV1	239.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	247.0
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	6	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
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	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
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	11	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2019	11	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2019	11	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
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	15399	Avangrid Renewables Inc	IPP	Tatanka Ridge	SD	61046	WT1	98.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	98.0
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	Cardinal Point LLC	IL	59902	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
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	Poplars Ranch Solar LLC	OR	59890	GEN	16.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	16.0
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
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	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
2019	12	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
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	12341	MidAmerican Energy Co	Electric Utility	Orient Wind Farm	IA	61077	1	482.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	482.0
2019	12	12341	MidAmerican Energy Co	Electric Utility	Plum Creek Wind	IA	61078	1	500.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	500.0
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	60646	Reading Wind Energy, LLC	IPP	Reading Wind Project	KS	60999	READW	200.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.1
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	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
2020	1	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
2020	1	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
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	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
2020	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
2020	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
2020	3	60350	CPV Fairview, LLC	IPP	CPV Fairview Energy Center	PA	60589	GEN1	1,100.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,100.0
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	60385	Energy Nuevo Storage Farm	Industrial	Energy Nuevo Storage Farm	CA	60646	NUEVO	20.0	Flywheels	MWH	FW	(P) Planned for installation, but regulatory approvals not initiated	20.0
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	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

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)
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	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG1	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG2	283.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	311.0
2020	6	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	STG1	437.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	450.0
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	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	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
2020	9	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
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	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
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	Hopeful Solar LLC	GA	59892	GEN	20.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.7
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 Energy Center	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 Energy Center	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	Natural Gas Fired Combined Cycle	NG	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	Natural Gas Fired Combined Cycle	NG	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	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	500.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	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 Energy Center	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 Energy Center	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	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
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
2026	5	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM1	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	6	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM2	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	7	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM3	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM4	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	9	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM5	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	10	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM6	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	11	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM7	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2026	12	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM8	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	1	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM9	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	2	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM10	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	3	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM11	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
2027	4	40575	Utah Associated Mun Power Sys	Electric Utility	UAMPS Carbon Free Power Plant	ID	61075	NPM12	47.5	Nuclear	NUC	ST	(P) Planned for installation, but regulatory approvals not initiated	50.0
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	3	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	1	0.3	Petroleum Liquids	DFO	IC
2017	3	1871	City of Blooming Prairie - (MN)	Electric Utility	Blooming Prairie	MN	1966	2	0.7	Petroleum Liquids	DFO	IC
2017	3	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2017	3	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2017	3	3046	Duke Energy Progress - (NC)	Electric Utility	L V Sutton Steam	NC	2713	GT1	11.0	Petroleum Liquids	DFO	GT
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	7570	Great River Energy	Electric Utility	Stanton	ND	2824	1	188.1	Conventional Steam Coal	SUB	ST
2017	3	7570	Great River Energy	Electric Utility	Stanton	ND	2824	2	1.0	Petroleum Liquids	DFO	IC
2017	3	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	GT7	7.3	Natural Gas Fired Combustion Turbine	NG	GT
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	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	ST1	106.0	Natural Gas Steam Turbine	NG	ST
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	29849	Wasatch Integrated Waste Management	Electric CHP	Wasatch Energy Systems Energy Recovery	UT	55302	1	1.6	Municipal Solid Waste	MSW	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	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	1	27.9	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	3	80.8	Natural Gas Steam Turbine	NG	ST
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	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4	103.8	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2017	9	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
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	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	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	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	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	5	184.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	2	340.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	3	497.0	Conventional Steam Coal	BIT	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	1	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	2	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	3	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	4	107.0	Conventional Steam Coal	SUB	ST
2018	1	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN1	0.5	Petroleum Liquids	DFO	IC
2018	1	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN2	0.5	Petroleum Liquids	DFO	IC
2018	1	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN3	0.7	Petroleum Liquids	DFO	IC
2018	1	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN4	0.7	Petroleum Liquids	DFO	IC
2018	1	6636	Foss Manufacturing Company LLC	Industrial	Hampton Facility	NH	10108	GEN5	0.7	Petroleum Liquids	DFO	IC
2018	2	57305	Wright Patterson AFB	Commercial	Heat Plant 770	OH	57926	HP	0.0	Natural Gas Steam Turbine	NG	ST
2018	2	57305	Wright Patterson AFB	Commercial	Heat Plant 770	OH	57926	LP	0.0	Natural Gas Steam Turbine	NG	ST
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	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C1	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C2	0.8	Petroleum Liquids	DFO	IC
2018	10	11560	City of Manassas - (VA)	Electric Utility	Church Street Plant	VA	7438	C4	1.0	Petroleum Liquids	DFO	IC
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	10	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	787.4	Nuclear	NUC	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

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	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
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	5	29926	Entergy Nuclear Generation Co	IPP	Pilgrim Nuclear Power Station	MA	1590	1	677.2	Nuclear	NUC	ST
2019	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	3	148.0	Petroleum Liquids	RFO	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	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	4	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
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 Corp.	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

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
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY1	0.7	Conventional Hydroelectric	WAT	HY
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY2	0.7	Conventional Hydroelectric	WAT	HY
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT3	1.8	Landfill Gas	LFG	IC
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	20.5	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	20.5	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
2047	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT

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-February 2017

	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 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
Year 2017								
January	58.6%	50.6%	5.8%	4.1%	NA	10.0%	1.4%	NA
February	48.7%	48.6%	6.1%	3.6%	NA	8.9%	1.8%	NA

Values for 2015 and prior years are final. Values for 2016 and 2017 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-February 2017

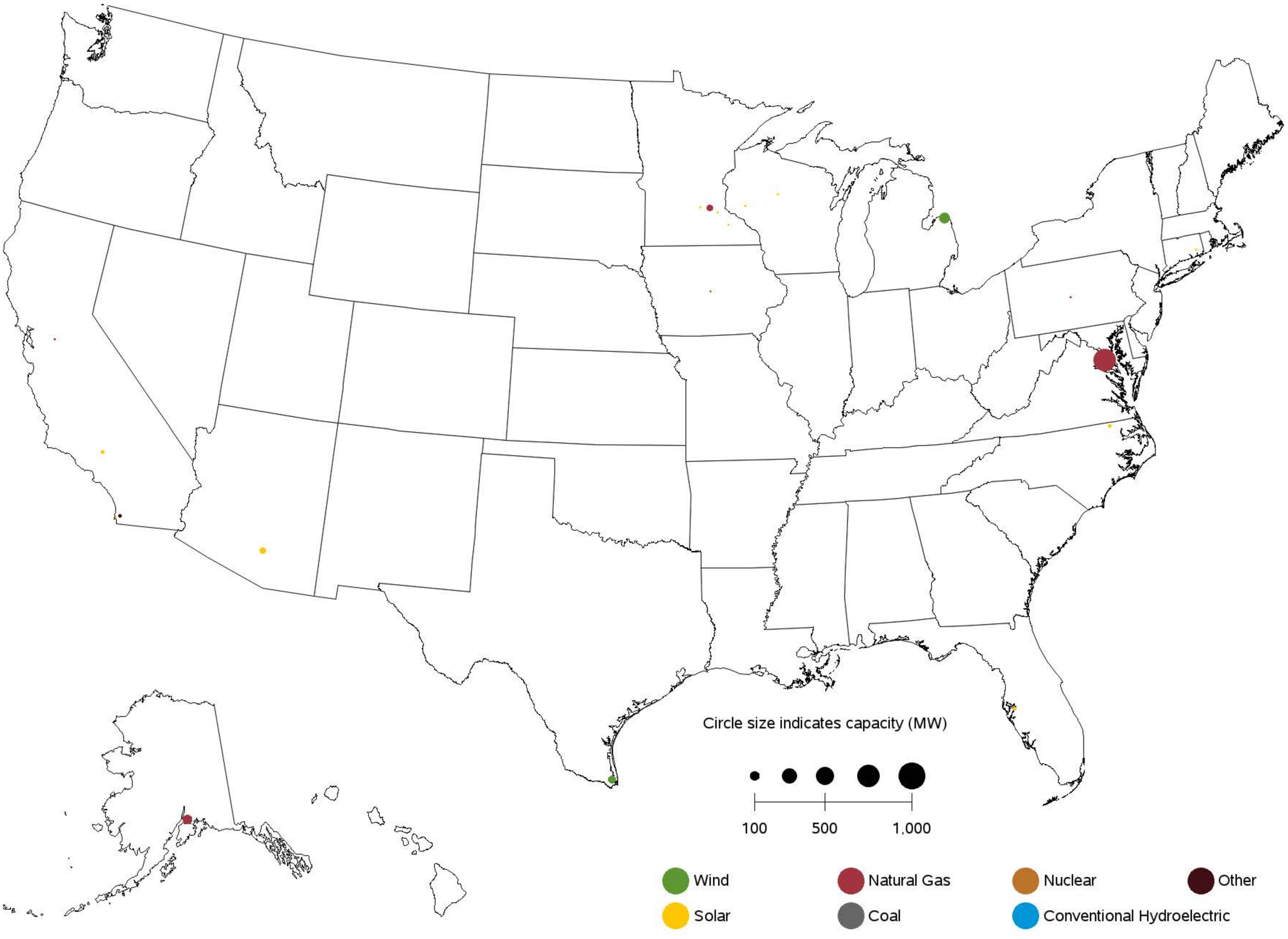
Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.3%	35.8%	32.2%	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 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%	39.4%	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%
Year 2017								
January	99.0%	48.4%	36.6%	16.9%	7.3%	74.2%	42.4%	79.8%
February	96.0%	47.7%	42.5%	20.0%	11.7%	70.6%	51.3%	78.1%

Values for 2015 and prior years are final. Values for 2016 and 2017 are preliminary. NA = Not Available

Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.

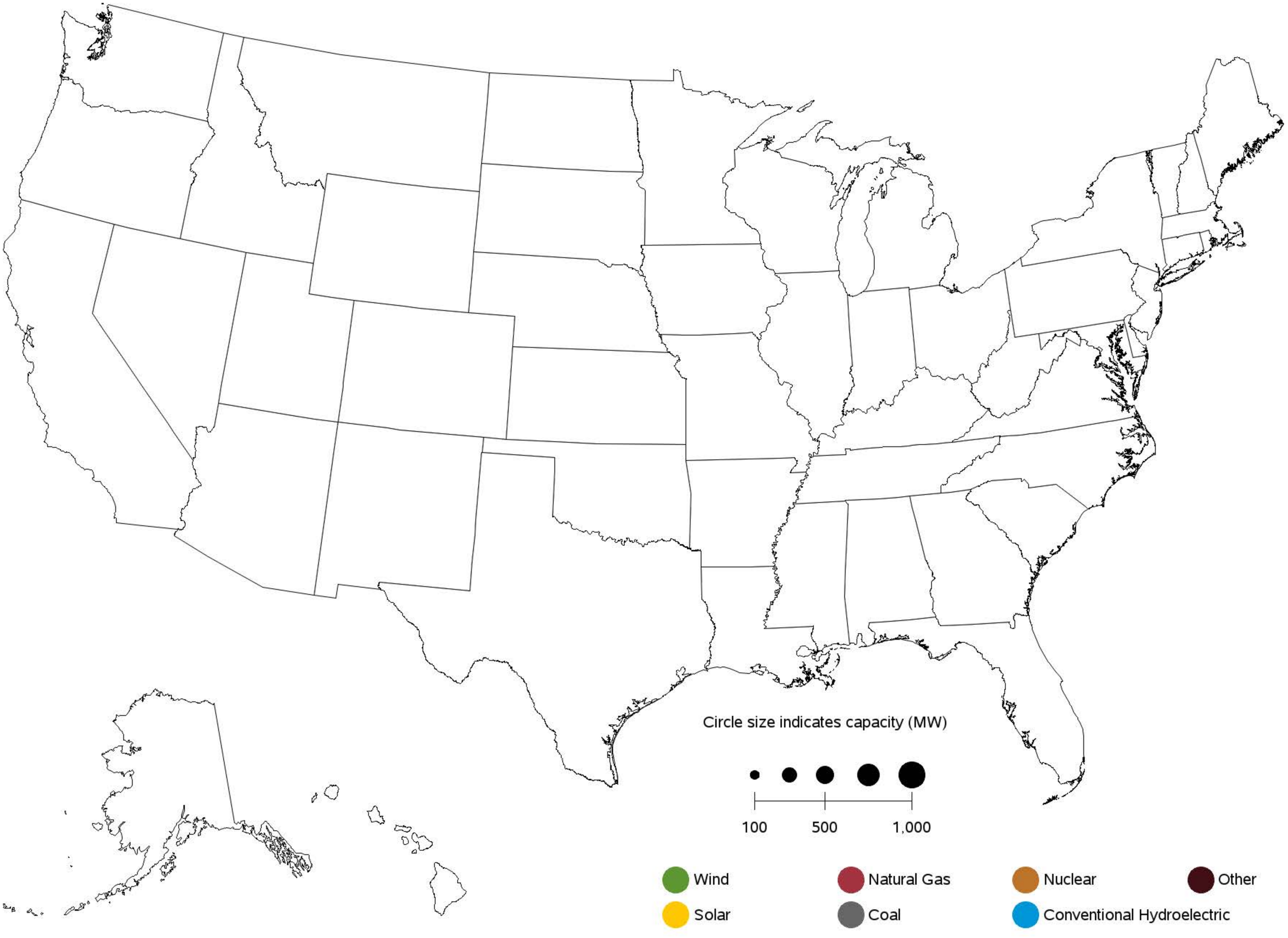
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.A. Utility-Scale Generating Units Added in February 2017



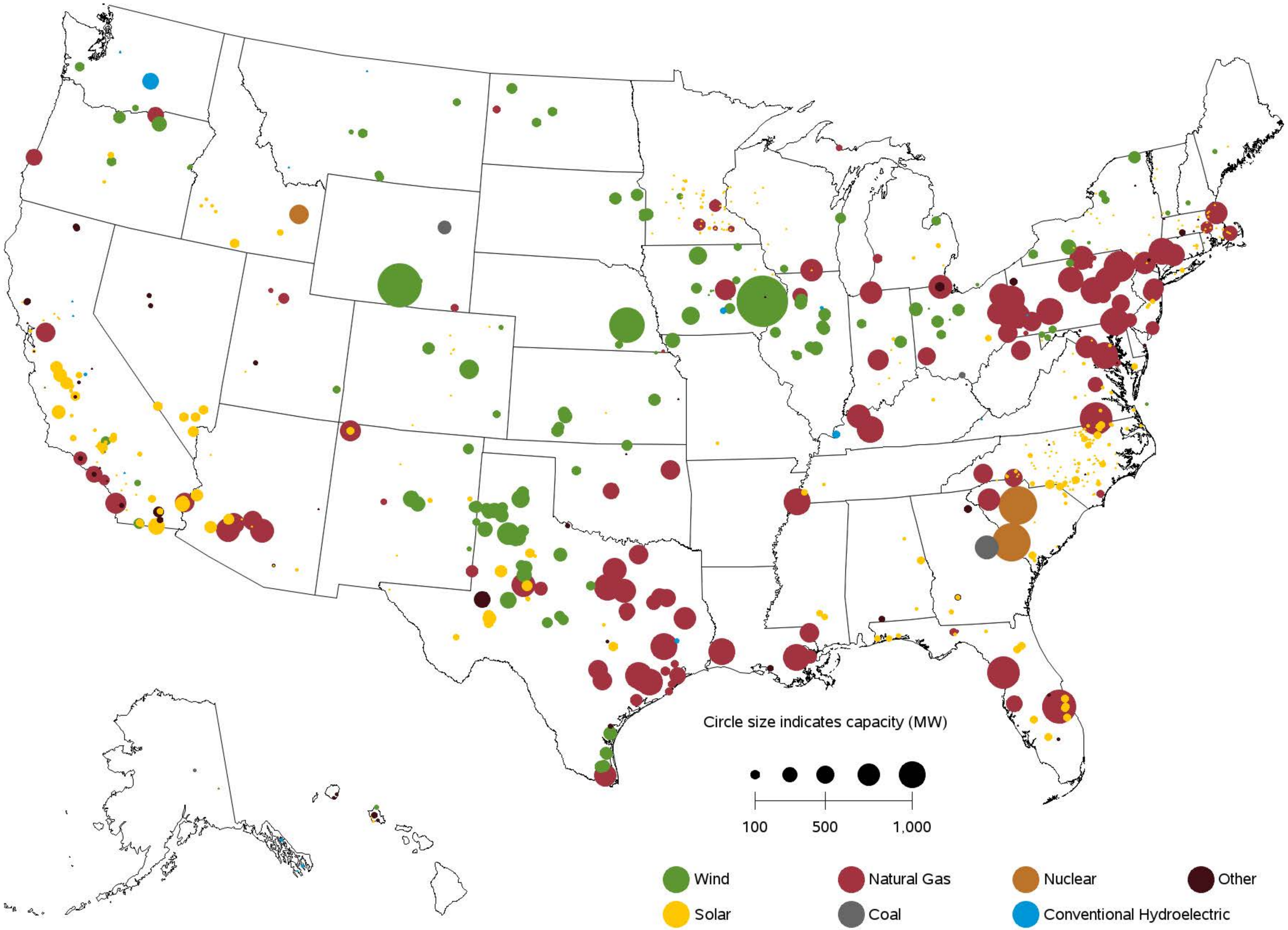
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in February 2017



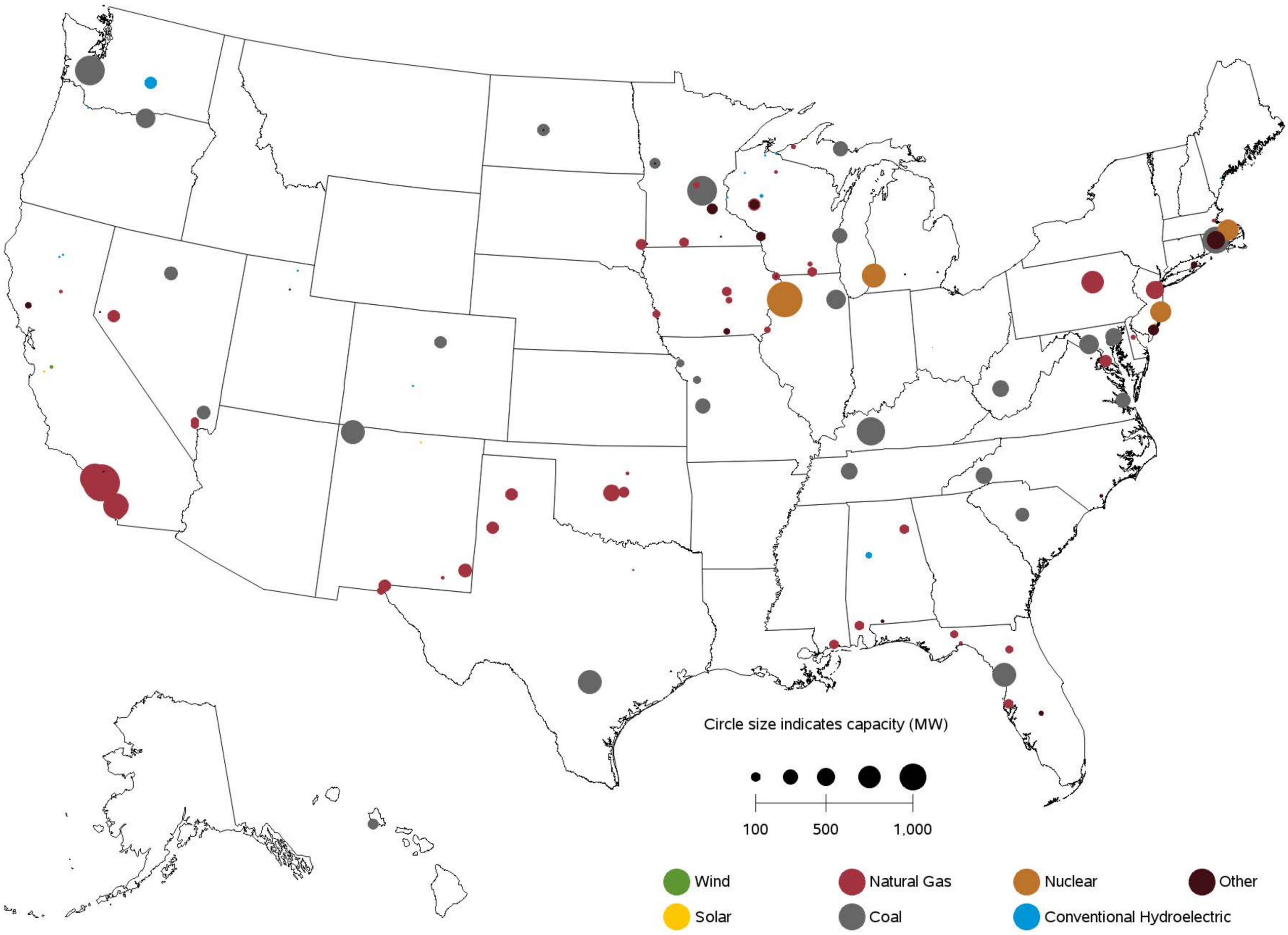
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from March 2017 to February 2018



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 March 2017 to February 2018



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, February 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**1**	**20**	**0**	**5**	**0**	**0**	**7**
Connecticut	0	47	0	3	0	0	30
Maine	27	38	0	48	0	0	9
Massachusetts	0	23	0	7	0	0	19
New Hampshire	0	9	0	0	0	0	16
Rhode Island	0	275	0	31	0	0	0
Vermont	0	30	0	0	0	0	15
Middle Atlantic	**3**	**23**	**40**	**2**	**26**	**0**	**2**
New Jersey	0	307	0	9	0	0	171
New York	56	29	0	4	0	0	1
Pennsylvania	3	14	61	2	36	0	11
East North Central	**0**	**15**	**14**	**2**	**10**	**0**	**18**
Illinois	0	4	0	4	0	0	40
Indiana	0	4	0	4	16	0	26
Michigan	2	43	0	3	0	0	34
Ohio	1	5	28	1	26	0	24
Wisconsin	0	224	0	7	0	0	27
West North Central	**1**	**39**	**0**	**15**	**0**	**0**	**12**
Iowa	2	80	0	27	0	0	44
Kansas	5	15	0	21	0	0	0
Minnesota	3	201	0	17	0	0	43
Missouri	0	6	0	47	0	0	13
Nebraska	3	543	0	80	0	0	33
North Dakota	2	14	0	40	0	0	28
South Dakota	0	335	0	47	0	0	19
South Atlantic	**1**	**12**	**8**	**2**	**30**	**0**	**6**
Delaware	0	90	0	13	32	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	6	0	2	0	0	32
Georgia	1	43	61	4	0	0	9
Maryland	0	24	0	10	0	0	1
North Carolina	0	21	0	2	0	0	9
South Carolina	0	58	0	9	0	0	13
Virginia	5	35	0	5	0	0	18
West Virginia	1	0	0	9	0	0	16
East South Central	**1**	**7**	**0**	**4**	**45**	**0**	**4**
Alabama	0	58	0	6	76	0	5
Kentucky	2	7	0	2	0	0	10
Mississippi	0	147	0	7	0	0	0
Tennessee	0	0	0	1	0	0	6
West South Central	**0**	**10**	**0**	**3**	**6**	**0**	**7**
Arkansas	0	9	0	14	0	0	9
Louisiana	0	87	0	4	8	0	16
Oklahoma	0	22	0	6	0	0	10
Texas	0	14	25	3	7	0	20
Mountain	**1**	**16**	**0**	**1**	**0**	**0**	**8**
Arizona	0	13	0	1	0	0	8
Colorado	0	282	0	0	0	0	28
Idaho	72	0	0	17	0	0	15
Montana	3	113	0	24	0	0	13
Nevada	0	0	0	0	0	0	2
New Mexico	0	50	0	1	0	0	116
Utah	0	2	0	2	0	0	46
Wyoming	2	1	0	10	0	0	44
Pacific Contiguous	**0**	**24**	**0**	**1**	**3**	**0**	**2**
California	0	30	0	1	4	0	7
Oregon	0	48	0	5	0	0	5
Washington	0	65	0	9	0	0	2
Pacific Noncontiguous	**13**	**2**	**0**	**25**	**0**	**0**	**32**
Alaska	42	10	0	25	0	0	33
Hawaii	0	2	0	0	0	0	120
U.S. Total	**0**	**3**	**4**	**1**	**6**	**0**	**2**

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

Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, February 2017 (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**	**12**	**5**	**0**	**1**	**2**
Connecticut	0	0	0	51	11	0	0	1
Maine	0	0	0	0	8	0	0	8
Massachusetts	0	0	0	14	9	0	2	4
New Hampshire	0	0	0	0	13	0	0	2
Rhode Island	0	0	0	87	12	0	0	28
Vermont	0	0	0	35	18	0	0	12
Middle Atlantic	**0**	**0**	**0**	**10**	**5**	**0**	**1**	**1**
New Jersey	0	0	0	12	6	0	0	3
New York	0	0	0	22	7	0	2	2
Pennsylvania	0	0	0	39	8	0	0	1
East North Central	**0**	**0**	**0**	**15**	**5**	**0**	**4**	**0**
Illinois	0	0	0	22	6	0	0	1
Indiana	0	0	0	20	10	0	0	1
Michigan	0	0	0	59	9	0	12	1
Ohio	0	0	0	34	7	0	0	1
Wisconsin	0	0	0	96	12	0	33	2
West North Central	**0**	**0**	**0**	**10**	**5**	**0**	**6**	**1**
Iowa	0	0	0	202	6	0	0	3
Kansas	0	0	0	0	3	0	0	2
Minnesota	0	0	0	10	8	0	3	3
Missouri	0	0	0	40	13	0	0	1
Nebraska	0	0	0	67	10	0	0	3
North Dakota	0	0	0	0	8	0	45	3
South Dakota	0	0	0	271	16	0	0	10
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**1**	**1**
Delaware	0	0	0	50	32	0	0	12
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	5	3	0	1	1
Georgia	0	0	0	7	3	0	14	2
Maryland	0	0	0	20	15	0	0	2
North Carolina	0	0	0	5	3	0	0	1
South Carolina	0	0	0	62	4	0	0	1
Virginia	0	0	0	23	6	0	0	2
West Virginia	0	0	0	0	19	0	0	1
East South Central	**0**	**0**	**0**	**21**	**3**	**0**	**0**	**1**
Alabama	0	0	0	31	4	0	0	2
Kentucky	0	0	0	0	15	0	0	2
Mississippi	0	0	0	154	4	0	0	5
Tennessee	0	0	0	33	7	0	0	1
West South Central	**0**	**0**	**0**	**8**	**2**	**0**	**3**	**1**
Arkansas	0	0	0	21	5	0	69	3
Louisiana	0	0	0	0	4	0	3	3
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	8	2	0	5	1
Mountain	**0**	**6**	**0**	**3**	**3**	**0**	**0**	**1**
Arizona	0	0	0	4	5	0	0	1
Colorado	0	0	0	13	3	0	0	1
Idaho	0	23	0	20	14	0	0	10
Montana	0	0	0	0	18	0	0	5
Nevada	0	6	0	5	4	0	0	1
New Mexico	0	0	0	11	5	0	0	1
Utah	0	10	0	9	6	0	0	1
Wyoming	0	0	0	0	14	0	0	2
Pacific Contiguous	**0**	**2**	**0**	**3**	**3**	**0**	**2**	**1**
California	0	2	0	3	2	0	2	2
Oregon	0	14	0	27	11	0	0	3
Washington	0	0	0	0	8	0	0	1
Pacific Noncontiguous	**0**	**14**	**0**	**25**	**11**	**0**	**0**	**5**
Alaska	0	0	0	0	56	0	0	15
Hawaii	0	14	0	25	10	0	0	2
U.S. Total	**0**	**3**	**0**	**2**	**2**	**0**	**1**	**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 February 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**1**	**20**	**0**	**5**	**0**	**0**	**7**
Connecticut	0	47	0	3	0	0	30
Maine	27	38	0	48	0	0	9
Massachusetts	0	23	0	7	0	0	19
New Hampshire	0	9	0	0	0	0	16
Rhode Island	0	275	0	31	0	0	0
Vermont	0	30	0	0	0	0	15
Middle Atlantic	**3**	**23**	**40**	**2**	**26**	**0**	**2**
New Jersey	0	307	0	9	0	0	171
New York	56	29	0	4	0	0	1
Pennsylvania	3	14	61	2	36	0	11
East North Central	**0**	**15**	**14**	**2**	**10**	**0**	**18**
Illinois	0	4	0	4	0	0	40
Indiana	0	4	0	4	16	0	26
Michigan	2	43	0	3	0	0	34
Ohio	1	5	28	1	26	0	24
Wisconsin	0	224	0	7	0	0	27
West North Central	**1**	**39**	**0**	**15**	**0**	**0**	**12**
Iowa	2	80	0	27	0	0	44
Kansas	5	15	0	21	0	0	0
Minnesota	3	201	0	17	0	0	43
Missouri	0	6	0	47	0	0	13
Nebraska	3	543	0	80	0	0	33
North Dakota	2	14	0	40	0	0	28
South Dakota	0	335	0	47	0	0	19
South Atlantic	**1**	**12**	**8**	**2**	**30**	**0**	**6**
Delaware	0	90	0	13	32	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	6	0	2	0	0	32
Georgia	1	43	61	4	0	0	9
Maryland	0	24	0	10	0	0	1
North Carolina	0	21	0	2	0	0	9
South Carolina	0	58	0	9	0	0	13
Virginia	5	35	0	5	0	0	18
West Virginia	1	0	0	9	0	0	16
East South Central	**1**	**7**	**0**	**4**	**45**	**0**	**4**
Alabama	0	58	0	6	76	0	5
Kentucky	2	7	0	2	0	0	10
Mississippi	0	147	0	7	0	0	0
Tennessee	0	0	0	1	0	0	6
West South Central	**0**	**10**	**0**	**3**	**6**	**0**	**7**
Arkansas	0	9	0	14	0	0	9
Louisiana	0	87	0	4	8	0	16
Oklahoma	0	22	0	6	0	0	10
Texas	0	14	25	3	7	0	20
Mountain	**1**	**16**	**0**	**1**	**0**	**0**	**8**
Arizona	0	13	0	1	0	0	8
Colorado	0	282	0	0	0	0	28
Idaho	72	0	0	17	0	0	15
Montana	3	113	0	24	0	0	13
Nevada	0	0	0	0	0	0	2
New Mexico	0	50	0	1	0	0	116
Utah	0	2	0	2	0	0	46
Wyoming	2	1	0	10	0	0	44
Pacific Contiguous	**0**	**24**	**0**	**1**	**3**	**0**	**2**
California	0	30	0	1	4	0	7
Oregon	0	48	0	5	0	0	5
Washington	0	65	0	9	0	0	2
Pacific Noncontiguous	**13**	**2**	**0**	**25**	**0**	**0**	**32**
Alaska	42	10	0	25	0	0	33
Hawaii	0	2	0	0	0	0	120
U.S. Total	**0**	**3**	**4**	**1**	**6**	**0**	**2**

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

Table A.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, Year-to-Date through February 2017 (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**	**12**	**5**	**0**	**1**	**2**
Connecticut	0	0	0	51	11	0	0	1
Maine	0	0	0	0	8	0	0	8
Massachusetts	0	0	0	14	9	0	2	4
New Hampshire	0	0	0	0	13	0	0	2
Rhode Island	0	0	0	87	12	0	0	28
Vermont	0	0	0	35	18	0	0	12
Middle Atlantic	**0**	**0**	**0**	**10**	**5**	**0**	**1**	**1**
New Jersey	0	0	0	12	6	0	0	3
New York	0	0	0	22	7	0	2	2
Pennsylvania	0	0	0	39	8	0	0	1
East North Central	**0**	**0**	**0**	**15**	**5**	**0**	**4**	**0**
Illinois	0	0	0	22	6	0	0	1
Indiana	0	0	0	20	10	0	0	1
Michigan	0	0	0	59	9	0	12	1
Ohio	0	0	0	34	7	0	0	1
Wisconsin	0	0	0	96	12	0	33	2
West North Central	**0**	**0**	**0**	**10**	**5**	**0**	**6**	**1**
Iowa	0	0	0	202	6	0	0	3
Kansas	0	0	0	0	3	0	0	2
Minnesota	0	0	0	10	8	0	3	3
Missouri	0	0	0	40	13	0	0	1
Nebraska	0	0	0	67	10	0	0	3
North Dakota	0	0	0	0	8	0	45	3
South Dakota	0	0	0	271	16	0	0	10
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**1**	**1**
Delaware	0	0	0	50	32	0	0	12
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	5	3	0	1	1
Georgia	0	0	0	7	3	0	14	2
Maryland	0	0	0	20	15	0	0	2
North Carolina	0	0	0	5	3	0	0	1
South Carolina	0	0	0	62	4	0	0	1
Virginia	0	0	0	23	6	0	0	2
West Virginia	0	0	0	0	19	0	0	1
East South Central	**0**	**0**	**0**	**21**	**3**	**0**	**0**	**1**
Alabama	0	0	0	31	4	0	0	2
Kentucky	0	0	0	0	15	0	0	2
Mississippi	0	0	0	154	4	0	0	5
Tennessee	0	0	0	33	7	0	0	1
West South Central	**0**	**0**	**0**	**8**	**2**	**0**	**3**	**1**
Arkansas	0	0	0	21	5	0	69	3
Louisiana	0	0	0	0	4	0	3	3
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	8	2	0	5	1
Mountain	**0**	**6**	**0**	**3**	**3**	**0**	**0**	**1**
Arizona	0	0	0	4	5	0	0	1
Colorado	0	0	0	13	3	0	0	1
Idaho	0	23	0	20	14	0	0	10
Montana	0	0	0	0	18	0	0	5
Nevada	0	6	0	5	4	0	0	1
New Mexico	0	0	0	11	5	0	0	1
Utah	0	10	0	9	6	0	0	1
Wyoming	0	0	0	0	14	0	0	2
Pacific Contiguous	**0**	**2**	**0**	**3**	**3**	**0**	**2**	**1**
California	0	2	0	3	2	0	2	2
Oregon	0	14	0	27	11	0	0	3
Washington	0	0	0	0	8	0	0	1
Pacific Noncontiguous	**0**	**14**	**0**	**25**	**11**	**0**	**0**	**5**
Alaska	0	0	0	0	56	0	0	15
Hawaii	0	14	0	25	10	0	0	2
U.S. Total	**0**	**3**	**0**	**2**	**2**	**0**	**1**	**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, February 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**37**	**0**	**150**	**0**	**0**	**17**
Connecticut	0	34	0	0	0	0	38
Maine	0	0	0	0	0	0	0
Massachusetts	0	261	0	209	0	0	39
New Hampshire	0	8	0	0	0	0	29
Rhode Island	0	0	0	0	0	0	0
Vermont	0	45	0	0	0	0	25
Middle Atlantic	**0**	**32**	**0**	**9**	**0**	**0**	**1**
New Jersey	0	311	0	0	0	0	0
New York	0	32	0	9	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**0**	**22**	**0**	**3**	**12**	**0**	**19**
Illinois	0	54	0	168	0	0	71
Indiana	0	5	0	5	65	0	26
Michigan	2	49	0	10	0	0	36
Ohio	3	4	0	0	0	0	33
Wisconsin	0	230	0	8	0	0	29
West North Central	**1**	**39**	**0**	**17**	**0**	**0**	**12**
Iowa	2	81	0	34	0	0	44
Kansas	5	15	0	21	0	0	0
Minnesota	3	228	0	19	0	0	57
Missouri	0	6	0	60	0	0	13
Nebraska	3	543	0	80	0	0	33
North Dakota	2	14	0	40	0	0	28
South Dakota	0	335	0	47	0	0	19
South Atlantic	**0**	**15**	**0**	**2**	**0**	**0**	**7**
Delaware	0	0	0	0	0	0	0
Florida	0	6	0	2	0	0	32
Georgia	0	39	0	4	0	0	9
Maryland	0	22	0	0	0	0	0
North Carolina	0	23	0	0	0	0	9
South Carolina	0	61	0	9	0	0	13
Virginia	6	81	0	6	0	0	18
West Virginia	0	0	0	0	0	0	29
East South Central	**1**	**4**	**0**	**5**	**0**	**0**	**4**
Alabama	0	11	0	11	0	0	5
Kentucky	2	7	0	0	0	0	10
Mississippi	0	272	0	8	0	0	0
Tennessee	0	0	0	1	0	0	6
West South Central	**0**	**26**	**0**	**9**	**0**	**0**	**7**
Arkansas	0	61	0	96	0	0	9
Louisiana	0	87	0	9	0	0	0
Oklahoma	0	23	0	9	0	0	10
Texas	0	26	0	22	0	0	20
Mountain	**1**	**16**	**0**	**1**	**0**	**0**	**8**
Arizona	0	13	0	1	0	0	8
Colorado	0	282	0	0	0	0	29
Idaho	0	0	0	24	0	0	15
Montana	0	2,844	0	30	0	0	13
Nevada	0	0	0	0	0	0	0
New Mexico	0	50	0	1	0	0	116
Utah	0	2	0	2	0	0	47
Wyoming	2	1	0	105	0	0	44
Pacific Contiguous	**0**	**51**	**0**	**2**	**0**	**0**	**2**
California	0	86	0	1	0	0	6
Oregon	0	48	0	12	0	0	4
Washington	0	114	0	11	0	0	2
Pacific Noncontiguous	**73**	**3**	**0**	**27**	**0**	**0**	**33**
Alaska	73	11	0	27	0	0	33
Hawaii	0	2	0	0	0	0	0
U.S. Total	**0**	**4**	**0**	**2**	**12**	**0**	**2**

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Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Electric Utilities by Census Division and State, February 2017 (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**	**43**	**14**	**0**	**0**	**11**
Connecticut	0	0	0	0	0	0	0	11
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	57	87	0	0	64
New Hampshire	0	0	0	0	0	0	0	7
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	56	20	0	0	16
Middle Atlantic	**0**	**0**	**0**	**38**	**38**	**0**	**0**	**3**
New Jersey	0	0	0	38	38	0	0	6
New York	0	0	0	0	0	0	0	3
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**29**	**13**	**0**	**4**	**1**
Illinois	0	0	0	0	51	0	0	5
Indiana	0	0	0	35	19	0	0	1
Michigan	0	0	0	59	19	0	0	1
Ohio	0	0	0	106	103	0	0	2
Wisconsin	0	0	0	0	21	0	38	2
West North Central	**0**	**0**	**0**	**134**	**6**	**0**	**12**	**1**
Iowa	0	0	0	202	6	0	0	4
Kansas	0	0	0	0	14	0	0	3
Minnesota	0	0	0	179	13	0	0	2
Missouri	0	0	0	0	56	0	0	1
Nebraska	0	0	0	0	41	0	0	3
North Dakota	0	0	0	0	15	0	45	3
South Dakota	0	0	0	0	26	0	0	12
South Atlantic	**0**	**0**	**0**	**7**	**7**	**0**	**0**	**1**
Delaware	0	0	0	138	138	0	0	68
Florida	0	0	0	5	5	0	0	1
Georgia	0	0	0	16	16	0	0	2
Maryland	0	0	0	118	118	0	0	81
North Carolina	0	0	0	21	21	0	0	0
South Carolina	0	0	0	0	9	0	0	1
Virginia	0	0	0	35	16	0	0	3
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**35**	**0**	**0**	**1**
Alabama	0	0	0	0	0	0	0	2
Kentucky	0	0	0	0	35	0	0	2
Mississippi	0	0	0	0	0	0	0	6
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**73**	**7**	**0**	**0**	**3**
Arkansas	0	0	0	271	271	0	0	3
Louisiana	0	0	0	0	0	0	0	4
Oklahoma	0	0	0	0	7	0	0	4
Texas	0	0	0	0	25	0	0	6
Mountain	**0**	**14**	**0**	**12**	**12**	**0**	**0**	**1**
Arizona	0	0	0	13	13	0	0	1
Colorado	0	0	0	0	33	0	0	1
Idaho	0	0	0	0	105	0	0	13
Montana	0	0	0	0	51	0	0	13
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	26	26	0	0	1
Utah	0	14	0	0	14	0	0	1
Wyoming	0	0	0	0	19	0	0	2
Pacific Contiguous	**0**	**0**	**0**	**17**	**7**	**0**	**0**	**2**
California	0	0	0	17	5	0	0	3
Oregon	0	0	0	143	14	0	0	4
Washington	0	0	0	0	10	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**37**	**0**	**0**	**8**
Alaska	0	0	0	0	76	0	0	17
Hawaii	0	0	0	0	0	0	0	2
U.S. Total	**0**	**4**	**0**	**5**	**5**	**0**	**3**	**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 February 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**37**	**0**	**150**	**0**	**0**	**17**
Connecticut	0	34	0	0	0	0	38
Maine	0	0	0	0	0	0	0
Massachusetts	0	261	0	209	0	0	39
New Hampshire	0	8	0	0	0	0	29
Rhode Island	0	0	0	0	0	0	0
Vermont	0	45	0	0	0	0	25
Middle Atlantic	**0**	**32**	**0**	**9**	**0**	**0**	**1**
New Jersey	0	311	0	0	0	0	0
New York	0	32	0	9	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**0**	**22**	**0**	**3**	**12**	**0**	**19**
Illinois	0	54	0	168	0	0	71
Indiana	0	5	0	5	65	0	26
Michigan	2	49	0	10	0	0	36
Ohio	3	4	0	0	0	0	33
Wisconsin	0	230	0	8	0	0	29
West North Central	**1**	**39**	**0**	**17**	**0**	**0**	**12**
Iowa	2	81	0	34	0	0	44
Kansas	5	15	0	21	0	0	0
Minnesota	3	228	0	19	0	0	57
Missouri	0	6	0	60	0	0	13
Nebraska	3	543	0	80	0	0	33
North Dakota	2	14	0	40	0	0	28
South Dakota	0	335	0	47	0	0	19
South Atlantic	**0**	**15**	**0**	**2**	**0**	**0**	**7**
Delaware	0	0	0	0	0	0	0
Florida	0	6	0	2	0	0	32
Georgia	0	39	0	4	0	0	9
Maryland	0	22	0	0	0	0	0
North Carolina	0	23	0	0	0	0	9
South Carolina	0	61	0	9	0	0	13
Virginia	6	81	0	6	0	0	18
West Virginia	0	0	0	0	0	0	29
East South Central	**1**	**4**	**0**	**5**	**0**	**0**	**4**
Alabama	0	11	0	11	0	0	5
Kentucky	2	7	0	0	0	0	10
Mississippi	0	272	0	8	0	0	0
Tennessee	0	0	0	1	0	0	6
West South Central	**0**	**26**	**0**	**9**	**0**	**0**	**7**
Arkansas	0	61	0	96	0	0	9
Louisiana	0	87	0	9	0	0	0
Oklahoma	0	23	0	9	0	0	10
Texas	0	26	0	22	0	0	20
Mountain	**1**	**16**	**0**	**1**	**0**	**0**	**8**
Arizona	0	13	0	1	0	0	8
Colorado	0	282	0	0	0	0	29
Idaho	0	0	0	24	0	0	15
Montana	0	2,844	0	30	0	0	13
Nevada	0	0	0	0	0	0	0
New Mexico	0	50	0	1	0	0	116
Utah	0	2	0	2	0	0	47
Wyoming	2	1	0	105	0	0	44
Pacific Contiguous	**0**	**51**	**0**	**2**	**0**	**0**	**2**
California	0	86	0	1	0	0	6
Oregon	0	48	0	12	0	0	4
Washington	0	114	0	11	0	0	2
Pacific Noncontiguous	**73**	**3**	**0**	**27**	**0**	**0**	**33**
Alaska	73	11	0	27	0	0	33
Hawaii	0	2	0	0	0	0	0
U.S. Total	**0**	**4**	**0**	**2**	**12**	**0**	**2**

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

Table A.2.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Electric Utilities by Census Division and State, Year-to-Date through February 2017 (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**	**43**	**14**	**0**	**0**	**11**
Connecticut	0	0	0	0	0	0	0	11
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	57	87	0	0	64
New Hampshire	0	0	0	0	0	0	0	7
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	56	20	0	0	16
Middle Atlantic	**0**	**0**	**0**	**38**	**38**	**0**	**0**	**3**
New Jersey	0	0	0	38	38	0	0	6
New York	0	0	0	0	0	0	0	3
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**29**	**13**	**0**	**4**	**1**
Illinois	0	0	0	0	51	0	0	5
Indiana	0	0	0	35	19	0	0	1
Michigan	0	0	0	59	19	0	0	1
Ohio	0	0	0	106	103	0	0	2
Wisconsin	0	0	0	0	21	0	38	2
West North Central	**0**	**0**	**0**	**134**	**6**	**0**	**12**	**1**
Iowa	0	0	0	202	6	0	0	4
Kansas	0	0	0	0	14	0	0	3
Minnesota	0	0	0	179	13	0	0	2
Missouri	0	0	0	0	56	0	0	1
Nebraska	0	0	0	0	41	0	0	3
North Dakota	0	0	0	0	15	0	45	3
South Dakota	0	0	0	0	26	0	0	12
South Atlantic	**0**	**0**	**0**	**7**	**7**	**0**	**0**	**1**
Delaware	0	0	0	138	138	0	0	68
Florida	0	0	0	5	5	0	0	1
Georgia	0	0	0	16	16	0	0	2
Maryland	0	0	0	118	118	0	0	81
North Carolina	0	0	0	21	21	0	0	0
South Carolina	0	0	0	0	9	0	0	1
Virginia	0	0	0	35	16	0	0	3
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**35**	**0**	**0**	**1**
Alabama	0	0	0	0	0	0	0	2
Kentucky	0	0	0	0	35	0	0	2
Mississippi	0	0	0	0	0	0	0	6
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**73**	**7**	**0**	**0**	**3**
Arkansas	0	0	0	271	271	0	0	3
Louisiana	0	0	0	0	0	0	0	4
Oklahoma	0	0	0	0	7	0	0	4
Texas	0	0	0	0	25	0	0	6
Mountain	**0**	**14**	**0**	**12**	**12**	**0**	**0**	**1**
Arizona	0	0	0	13	13	0	0	1
Colorado	0	0	0	0	33	0	0	1
Idaho	0	0	0	0	105	0	0	13
Montana	0	0	0	0	51	0	0	13
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	26	26	0	0	1
Utah	0	14	0	0	14	0	0	1
Wyoming	0	0	0	0	19	0	0	2
Pacific Contiguous	**0**	**0**	**0**	**17**	**7**	**0**	**0**	**2**
California	0	0	0	17	5	0	0	3
Oregon	0	0	0	143	14	0	0	4
Washington	0	0	0	0	10	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**37**	**0**	**0**	**8**
Alaska	0	0	0	0	76	0	0	17
Hawaii	0	0	0	0	0	0	0	2
U.S. Total	**0**	**4**	**0**	**5**	**5**	**0**	**3**	**0**

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

Table A.3.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, February 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**24**	**0**	**5**	**0**	**0**	**8**
Connecticut	0	50	0	2	0	0	32
Maine	0	14	0	67	0	0	10
Massachusetts	0	24	0	7	0	0	21
New Hampshire	0	1,218	0	0	0	0	18
Rhode Island	0	1,137	0	31	0	0	0
Vermont	0	0	0	0	0	0	19
Middle Atlantic	**3**	**35**	**0**	**2**	**0**	**0**	**9**
New Jersey	0	309	0	9	0	0	171
New York	78	67	0	4	0	0	9
Pennsylvania	3	14	0	2	0	0	11
East North Central	**0**	**6**	**28**	**1**	**12**	**0**	**44**
Illinois	0	3	0	2	0	0	42
Indiana	0	0	0	6	0	0	0
Michigan	0	0	0	2	0	0	143
Ohio	0	10	28	1	32	0	34
Wisconsin	0	0	0	2	0	0	131
West North Central	**0**	**89**	**0**	**59**	**0**	**0**	**84**
Iowa	0	112	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	147	0	50	0	0	97
Missouri	0	0	0	81	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**5**	**10**	**0**	**7**	**0**	**0**	**4**
Delaware	0	98	0	15	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	96	0	40	0	0	0
Georgia	0	79	0	15	0	0	83
Maryland	0	26	0	11	0	0	1
North Carolina	0	43	0	16	0	0	72
South Carolina	0	0	0	18	0	0	66
Virginia	0	3	0	1	0	0	45
West Virginia	8	0	0	105	0	0	28
East South Central	**0**	**79**	**0**	**5**	**0**	**0**	**174**
Alabama	0	102	0	6	0	0	0
Kentucky	0	0	0	0	0	0	174
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**3**	**0**	**3**	**7**	**0**	**15**
Arkansas	0	0	0	4	0	0	134
Louisiana	0	0	0	0	0	0	16
Oklahoma	0	0	0	0	0	0	0
Texas	0	11	0	3	7	0	0
Mountain	**3**	**11**	**0**	**3**	**0**	**0**	**39**
Arizona	0	0	0	1	0	0	0
Colorado	0	0	0	0	0	0	97
Idaho	0	0	0	27	0	0	48
Montana	3	14	0	17	0	0	111
Nevada	0	0	0	0	0	0	72
New Mexico	0	0	0	2	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**30**	**0**	**1**	**0**	**0**	**31**
California	0	0	0	1	0	0	36
Oregon	0	0	0	1	0	0	84
Washington	0	45	0	14	0	0	75
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	44	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**7**	**19**	**1**	**8**	**0**	**7**

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, February 2017 (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**	**13**	**7**	**0**	**1**	**2**
Connecticut	0	0	0	56	11	0	0	1
Maine	0	0	0	0	10	0	0	10
Massachusetts	0	0	0	14	9	0	2	4
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	87	13	0	0	28
Vermont	0	0	0	44	34	0	0	17
Middle Atlantic	**0**	**0**	**0**	**11**	**6**	**0**	**0**	**1**
New Jersey	0	0	0	13	7	0	0	3
New York	0	0	0	22	8	0	0	2
Pennsylvania	0	0	0	43	10	0	0	1
East North Central	**0**	**0**	**0**	**18**	**5**	**0**	**26**	**0**
Illinois	0	0	0	23	6	0	0	1
Indiana	0	0	0	25	10	0	0	5
Michigan	0	0	0	0	10	0	31	2
Ohio	0	0	0	37	7	0	0	0
Wisconsin	0	0	0	96	20	0	0	2
West North Central	**0**	**0**	**0**	**10**	**5**	**0**	**0**	**4**
Iowa	0	0	0	0	10	0	0	6
Kansas	0	0	0	0	3	0	0	3
Minnesota	0	0	0	10	9	0	0	8
Missouri	0	0	0	42	14	0	0	25
Nebraska	0	0	0	67	10	0	0	10
North Dakota	0	0	0	0	9	0	0	9
South Dakota	0	0	0	271	18	0	0	18
South Atlantic	**0**	**0**	**0**	**5**	**3**	**0**	**1**	**3**
Delaware	0	0	0	55	38	0	0	14
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	44	3	0	1	17
Georgia	0	0	0	8	6	0	0	12
Maryland	0	0	0	20	17	0	0	2
North Carolina	0	0	0	6	4	0	0	8
South Carolina	0	0	0	62	22	0	0	14
Virginia	0	0	0	30	13	0	0	1
West Virginia	0	0	0	0	19	0	0	7
East South Central	**0**	**0**	**0**	**23**	**15**	**0**	**0**	**5**
Alabama	0	0	0	31	16	0	0	6
Kentucky	0	0	0	0	0	0	0	80
Mississippi	0	0	0	154	88	0	0	0
Tennessee	0	0	0	34	32	0	0	30
West South Central	**0**	**0**	**0**	**8**	**2**	**0**	**0**	**1**
Arkansas	0	0	0	0	31	0	0	2
Louisiana	0	0	0	0	40	0	0	2
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	8	2	0	0	1
Mountain	**0**	**6**	**0**	**3**	**3**	**0**	**0**	**2**
Arizona	0	0	0	4	5	0	0	3
Colorado	0	0	0	13	3	0	0	3
Idaho	0	23	0	20	16	0	0	14
Montana	0	0	0	0	19	0	0	4
Nevada	0	6	0	5	4	0	0	3
New Mexico	0	0	0	13	5	0	0	3
Utah	0	15	0	9	6	0	0	5
Wyoming	0	0	0	0	18	0	0	14
Pacific Contiguous	**0**	**3**	**0**	**3**	**3**	**0**	**0**	**2**
California	0	3	0	3	2	0	0	2
Oregon	0	15	0	28	13	0	0	6
Washington	0	0	0	0	16	0	0	6
Pacific Noncontiguous	**0**	**14**	**0**	**57**	**14**	**0**	**0**	**4**
Alaska	0	0	0	0	107	0	0	44
Hawaii	0	14	0	57	13	0	0	4
U.S. Total	**0**	**3**	**0**	**2**	**2**	**0**	**1**	**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.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, Year-to-Date through February 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**24**	**0**	**5**	**0**	**0**	**8**
Connecticut	0	50	0	2	0	0	32
Maine	0	14	0	67	0	0	10
Massachusetts	0	24	0	7	0	0	21
New Hampshire	0	1,218	0	0	0	0	18
Rhode Island	0	1,137	0	31	0	0	0
Vermont	0	0	0	0	0	0	19
Middle Atlantic	**3**	**35**	**0**	**2**	**0**	**0**	**9**
New Jersey	0	309	0	9	0	0	171
New York	78	67	0	4	0	0	9
Pennsylvania	3	14	0	2	0	0	11
East North Central	**0**	**6**	**28**	**1**	**12**	**0**	**44**
Illinois	0	3	0	2	0	0	42
Indiana	0	0	0	6	0	0	0
Michigan	0	0	0	2	0	0	143
Ohio	0	10	28	1	32	0	34
Wisconsin	0	0	0	2	0	0	131
West North Central	**0**	**89**	**0**	**59**	**0**	**0**	**84**
Iowa	0	112	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	147	0	50	0	0	97
Missouri	0	0	0	81	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**5**	**10**	**0**	**7**	**0**	**0**	**4**
Delaware	0	98	0	15	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	96	0	40	0	0	0
Georgia	0	79	0	15	0	0	83
Maryland	0	26	0	11	0	0	1
North Carolina	0	43	0	16	0	0	72
South Carolina	0	0	0	18	0	0	66
Virginia	0	3	0	1	0	0	45
West Virginia	8	0	0	105	0	0	28
East South Central	**0**	**79**	**0**	**5**	**0**	**0**	**174**
Alabama	0	102	0	6	0	0	0
Kentucky	0	0	0	0	0	0	174
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**3**	**0**	**3**	**7**	**0**	**15**
Arkansas	0	0	0	4	0	0	134
Louisiana	0	0	0	0	0	0	16
Oklahoma	0	0	0	0	0	0	0
Texas	0	11	0	3	7	0	0
Mountain	**3**	**11**	**0**	**3**	**0**	**0**	**39**
Arizona	0	0	0	1	0	0	0
Colorado	0	0	0	0	0	0	97
Idaho	0	0	0	27	0	0	48
Montana	3	14	0	17	0	0	111
Nevada	0	0	0	0	0	0	72
New Mexico	0	0	0	2	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**30**	**0**	**1**	**0**	**0**	**31**
California	0	0	0	1	0	0	36
Oregon	0	0	0	1	0	0	84
Washington	0	45	0	14	0	0	75
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	44	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**7**	**19**	**1**	**8**	**0**	**7**

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 February 2017 (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**	**13**	**7**	**0**	**1**	**2**
Connecticut	0	0	0	56	11	0	0	1
Maine	0	0	0	0	10	0	0	10
Massachusetts	0	0	0	14	9	0	2	4
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	87	13	0	0	28
Vermont	0	0	0	44	34	0	0	17
Middle Atlantic	**0**	**0**	**0**	**11**	**6**	**0**	**0**	**1**
New Jersey	0	0	0	13	7	0	0	3
New York	0	0	0	22	8	0	0	2
Pennsylvania	0	0	0	43	10	0	0	1
East North Central	**0**	**0**	**0**	**18**	**5**	**0**	**26**	**0**
Illinois	0	0	0	23	6	0	0	1
Indiana	0	0	0	25	10	0	0	5
Michigan	0	0	0	0	10	0	31	2
Ohio	0	0	0	37	7	0	0	0
Wisconsin	0	0	0	96	20	0	0	2
West North Central	**0**	**0**	**0**	**10**	**5**	**0**	**0**	**4**
Iowa	0	0	0	0	10	0	0	6
Kansas	0	0	0	0	3	0	0	3
Minnesota	0	0	0	10	9	0	0	8
Missouri	0	0	0	42	14	0	0	25
Nebraska	0	0	0	67	10	0	0	10
North Dakota	0	0	0	0	9	0	0	9
South Dakota	0	0	0	271	18	0	0	18
South Atlantic	**0**	**0**	**0**	**5**	**3**	**0**	**1**	**3**
Delaware	0	0	0	55	38	0	0	14
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	44	3	0	1	17
Georgia	0	0	0	8	6	0	0	12
Maryland	0	0	0	20	17	0	0	2
North Carolina	0	0	0	6	4	0	0	8
South Carolina	0	0	0	62	22	0	0	14
Virginia	0	0	0	30	13	0	0	1
West Virginia	0	0	0	0	19	0	0	7
East South Central	**0**	**0**	**0**	**23**	**15**	**0**	**0**	**5**
Alabama	0	0	0	31	16	0	0	6
Kentucky	0	0	0	0	0	0	0	80
Mississippi	0	0	0	154	88	0	0	0
Tennessee	0	0	0	34	32	0	0	30
West South Central	**0**	**0**	**0**	**8**	**2**	**0**	**0**	**1**
Arkansas	0	0	0	0	31	0	0	2
Louisiana	0	0	0	0	40	0	0	2
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	8	2	0	0	1
Mountain	**0**	**6**	**0**	**3**	**3**	**0**	**0**	**2**
Arizona	0	0	0	4	5	0	0	3
Colorado	0	0	0	13	3	0	0	3
Idaho	0	23	0	20	16	0	0	14
Montana	0	0	0	0	19	0	0	4
Nevada	0	6	0	5	4	0	0	3
New Mexico	0	0	0	13	5	0	0	3
Utah	0	15	0	9	6	0	0	5
Wyoming	0	0	0	0	18	0	0	14
Pacific Contiguous	**0**	**3**	**0**	**3**	**3**	**0**	**0**	**2**
California	0	3	0	3	2	0	0	2
Oregon	0	15	0	28	13	0	0	6
Washington	0	0	0	0	16	0	0	6
Pacific Noncontiguous	**0**	**14**	**0**	**57**	**14**	**0**	**0**	**4**
Alaska	0	0	0	0	107	0	0	44
Hawaii	0	14	0	57	13	0	0	4
U.S. Total	**0**	**3**	**0**	**2**	**2**	**0**	**1**	**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.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, February 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**25**	**0**	**26**	**0**	**0**	**0**
Connecticut	0	11,257	0	38	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	52	0	42	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**160**	**0**	**24**	**0**	**0**	**0**
New Jersey	0	0	0	27	0	0	0
New York	0	176	0	34	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**80**	**4**	**0**	**11**	**0**	**0**	**0**
Illinois	80	0	0	42	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	4	0	9	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	11	0	0	0
West North Central	**0**	**25**	**0**	**6**	**0**	**0**	**0**
Iowa	0	0	0	10	0	0	0
Minnesota	0	29	0	9	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0
South Dakota	0	625	0	0	0	0	0
South Atlantic	**0**	**1**	**0**	**0**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	20	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**34**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	36	0	0	0
West South Central	**0**	**0**	**0**	**21**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	31	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	26	0	0	0
Mountain	**0**	**0**	**0**	**13**	**0**	**0**	**0**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	50	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**23**	**0**	**5**	**0**	**0**	**315**
California	0	41	0	5	0	0	315
Oregon	0	0	0	26	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**43**	**4**	**0**	**0**	**0**	**0**	**0**
Alaska	43	5	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**14**	**45**	**0**	**6**	**0**	**0**	**144**

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, February 2017 (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**	**59**	**1**	**0**	**0**	**19**
Connecticut	0	0	0	0	0	0	0	38
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	59	5	0	0	36
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**26**	**6**	**0**	**4**	**11**
New Jersey	0	0	0	27	10	0	0	9
New York	0	0	0	145	9	0	8	21
Pennsylvania	0	0	0	144	11	0	0	4
East North Central	**0**	**0**	**0**	**195**	**9**	**0**	**0**	**8**
Illinois	0	0	0	0	335	0	0	38
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	6
Ohio	0	0	0	195	23	0	0	1
Wisconsin	0	0	0	0	24	0	0	12
West North Central	**0**	**0**	**0**	**0**	**25**	**0**	**33**	**8**
Iowa	0	0	0	0	35	0	0	7
Minnesota	0	0	0	0	90	0	33	23
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	625
South Atlantic	**0**	**0**	**0**	**33**	**9**	**0**	**0**	**3**
Delaware	0	0	0	168	18	0	0	18
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	0	35	0	0	24
Georgia	0	0	0	186	186	0	0	109
Maryland	0	0	0	150	40	0	0	2
North Carolina	0	0	0	36	25	0	0	15
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	4	0	0	2
East South Central	**0**	**0**	**0**	**189**	**189**	**0**	**0**	**34**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	189	189	0	0	36
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**20**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	31
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	24
Mountain	**0**	**0**	**0**	**37**	**29**	**0**	**0**	**12**
Arizona	0	0	0	86	86	0	0	8
Colorado	0	0	0	84	89	0	0	71
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	46	46	0	0	23
New Mexico	0	0	0	0	233	0	0	49
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**34**	**8**	**0**	**0**	**5**
California	0	0	0	34	8	0	0	5
Oregon	0	0	0	0	46	0	0	24
Washington	0	0	0	0	72	0	0	28
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**8**
Alaska	0	0	0	0	0	0	0	32
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**16**	**4**	**0**	**2**	**4**

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 February 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**25**	**0**	**26**	**0**	**0**	**0**
Connecticut	0	11,257	0	38	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	52	0	42	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**160**	**0**	**24**	**0**	**0**	**0**
New Jersey	0	0	0	27	0	0	0
New York	0	176	0	34	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**80**	**4**	**0**	**11**	**0**	**0**	**0**
Illinois	80	0	0	42	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	4	0	9	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	11	0	0	0
West North Central	**0**	**25**	**0**	**6**	**0**	**0**	**0**
Iowa	0	0	0	10	0	0	0
Minnesota	0	29	0	9	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0
South Dakota	0	625	0	0	0	0	0
South Atlantic	**0**	**1**	**0**	**0**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	20	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**34**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	36	0	0	0
West South Central	**0**	**0**	**0**	**21**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	31	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	26	0	0	0
Mountain	**0**	**0**	**0**	**13**	**0**	**0**	**0**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	50	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**23**	**0**	**5**	**0**	**0**	**315**
California	0	41	0	5	0	0	315
Oregon	0	0	0	26	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**43**	**4**	**0**	**0**	**0**	**0**	**0**
Alaska	43	5	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**14**	**45**	**0**	**6**	**0**	**0**	**144**

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 February 2017 (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**	**59**	**1**	**0**	**0**	**19**
Connecticut	0	0	0	0	0	0	0	38
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	59	5	0	0	36
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**26**	**6**	**0**	**4**	**11**
New Jersey	0	0	0	27	10	0	0	9
New York	0	0	0	145	9	0	8	21
Pennsylvania	0	0	0	144	11	0	0	4
East North Central	**0**	**0**	**0**	**195**	**9**	**0**	**0**	**8**
Illinois	0	0	0	0	335	0	0	38
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	6
Ohio	0	0	0	195	23	0	0	1
Wisconsin	0	0	0	0	24	0	0	12
West North Central	**0**	**0**	**0**	**0**	**25**	**0**	**33**	**8**
Iowa	0	0	0	0	35	0	0	7
Minnesota	0	0	0	0	90	0	33	23
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	625
South Atlantic	**0**	**0**	**0**	**33**	**9**	**0**	**0**	**3**
Delaware	0	0	0	168	18	0	0	18
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	0	35	0	0	24
Georgia	0	0	0	186	186	0	0	109
Maryland	0	0	0	150	40	0	0	2
North Carolina	0	0	0	36	25	0	0	15
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	4	0	0	2
East South Central	**0**	**0**	**0**	**189**	**189**	**0**	**0**	**34**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	189	189	0	0	36
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**20**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	31
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	24
Mountain	**0**	**0**	**0**	**37**	**29**	**0**	**0**	**12**
Arizona	0	0	0	86	86	0	0	8
Colorado	0	0	0	84	89	0	0	71
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	46	46	0	0	23
New Mexico	0	0	0	0	233	0	0	49
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**34**	**8**	**0**	**0**	**5**
California	0	0	0	34	8	0	0	5
Oregon	0	0	0	0	46	0	0	24
Washington	0	0	0	0	72	0	0	28
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**8**
Alaska	0	0	0	0	0	0	0	32
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**16**	**4**	**0**	**2**	**4**

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, February 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**101**	**78**	**0**	**17**	**0**	**0**	**23**
Connecticut	0	0	0	29	0	0	0
Maine	101	97	0	33	0	0	24
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**12**	**10**	**40**	**17**	**26**	**0**	**21**
New Jersey	0	0	0	18	0	0	0
New York	0	7	0	19	0	0	21
Pennsylvania	28	489	61	26	36	0	0
East North Central	**7**	**9**	**0**	**10**	**13**	**0**	**69**
Illinois	6	0	0	32	0	0	0
Indiana	0	1	0	14	15	0	0
Michigan	85	19	0	18	0	0	111
Ohio	77	0	0	8	0	0	0
Wisconsin	20	382	0	17	0	0	79
West North Central	**3**	**20**	**0**	**5**	**0**	**0**	**57**
Iowa	4	0	0	0	0	0	0
Kansas	0	0	0	132	0	0	0
Minnesota	7	21	0	10	0	0	57
Missouri	0	0	0	0	0	0	0
Nebraska	6	0	0	0	0	0	0
North Dakota	61	0	0	0	0	0	0
South Atlantic	**29**	**82**	**61**	**10**	**30**	**0**	**21**
Delaware	0	0	0	29	32	0	0
Florida	74	196	0	17	0	0	0
Georgia	82	181	61	29	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	19	117	0	60	0	0	427
South Carolina	0	0	0	26	0	0	0
Virginia	13	124	0	8	0	0	0
West Virginia	0	0	0	0	0	0	21
East South Central	**14**	**182**	**0**	**12**	**45**	**0**	**0**
Alabama	121	259	0	21	76	0	0
Kentucky	0	0	0	18	0	0	0
Mississippi	0	0	0	30	0	0	0
Tennessee	0	0	0	14	0	0	0
West South Central	**0**	**128**	**8**	**2**	**8**	**0**	**0**
Arkansas	0	2,681	0	29	0	0	0
Louisiana	0	0	0	2	8	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	25	3	13	0	0
Mountain	**20**	**0**	**0**	**4**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	72	0	0	27	0	0	0
Montana	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	21	0	0	8	0	0	0
Pacific Contiguous	**0**	**10**	**0**	**2**	**4**	**0**	**0**
California	0	1	0	1	4	0	0
Oregon	0	0	0	51	0	0	0
Washington	0	87	0	38	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**147**
Alaska	0	9	0	0	0	0	0
Hawaii	0	0	0	0	0	0	147
U.S. Total	**4**	**8**	**18**	**2**	**7**	**0**	**17**

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, February 2017 (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**	**7**	**0**	**0**	**8**
Connecticut	0	0	0	0	0	0	0	29
Maine	0	0	0	0	7	0	0	9
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**94**	**7**	**0**	**0**	**9**
New Jersey	0	0	0	157	157	0	0	8
New York	0	0	0	0	13	0	0	7
Pennsylvania	0	0	0	113	8	0	0	14
East North Central	**0**	**0**	**0**	**0**	**7**	**0**	**3**	**5**
Illinois	0	0	0	0	0	0	0	7
Indiana	0	0	0	0	35	0	0	11
Michigan	0	0	0	0	11	0	0	10
Ohio	0	0	0	0	23	0	0	10
Wisconsin	0	0	0	0	10	0	45	11
West North Central	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	131	0	0	69
Minnesota	0	0	0	0	0	0	0	6
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	6
North Dakota	0	0	0	0	108	0	0	32
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**1**	**3**
Delaware	0	0	0	0	78	0	0	22
Florida	0	0	0	0	5	0	0	6
Georgia	0	0	0	0	4	0	14	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	5	0	0	6
South Carolina	0	0	0	0	3	0	0	3
Virginia	0	0	0	0	0	0	0	2
West Virginia	0	0	0	0	0	0	0	11
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**4**
Alabama	0	0	0	0	4	0	0	7
Kentucky	0	0	0	0	17	0	0	12
Mississippi	0	0	0	0	4	0	0	7
Tennessee	0	0	0	0	6	0	0	4
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**3**	**2**
Arkansas	0	0	0	0	5	0	69	6
Louisiana	0	0	0	0	4	0	3	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	10	0	6	2
Mountain	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	3	0	0	9
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	6
Pacific Contiguous	**0**	**0**	**0**	**76**	**6**	**0**	**2**	**2**
California	0	0	0	76	10	0	2	1
Oregon	0	0	0	0	13	0	0	13
Washington	0	0	0	0	8	0	0	8
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**129**	**0**	**0**	**19**
Alaska	0	0	0	0	129	0	0	7
Hawaii	0	0	0	0	0	0	0	28
U.S. Total	**0**	**0**	**0**	**56**	**2**	**0**	**1**	**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 February 2017

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**101**	**78**	**0**	**17**	**0**	**0**	**23**
Connecticut	0	0	0	29	0	0	0
Maine	101	97	0	33	0	0	24
Massachusetts	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0
Middle Atlantic	**12**	**10**	**40**	**17**	**26**	**0**	**21**
New Jersey	0	0	0	18	0	0	0
New York	0	7	0	19	0	0	21
Pennsylvania	28	489	61	26	36	0	0
East North Central	**7**	**9**	**0**	**10**	**13**	**0**	**69**
Illinois	6	0	0	32	0	0	0
Indiana	0	1	0	14	15	0	0
Michigan	85	19	0	18	0	0	111
Ohio	77	0	0	8	0	0	0
Wisconsin	20	382	0	17	0	0	79
West North Central	**3**	**20**	**0**	**5**	**0**	**0**	**57**
Iowa	4	0	0	0	0	0	0
Kansas	0	0	0	132	0	0	0
Minnesota	7	21	0	10	0	0	57
Missouri	0	0	0	0	0	0	0
Nebraska	6	0	0	0	0	0	0
North Dakota	61	0	0	0	0	0	0
South Atlantic	**29**	**82**	**61**	**10**	**30**	**0**	**21**
Delaware	0	0	0	29	32	0	0
Florida	74	196	0	17	0	0	0
Georgia	82	181	61	29	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	19	117	0	60	0	0	427
South Carolina	0	0	0	26	0	0	0
Virginia	13	124	0	8	0	0	0
West Virginia	0	0	0	0	0	0	21
East South Central	**14**	**182**	**0**	**12**	**45**	**0**	**0**
Alabama	121	259	0	21	76	0	0
Kentucky	0	0	0	18	0	0	0
Mississippi	0	0	0	30	0	0	0
Tennessee	0	0	0	14	0	0	0
West South Central	**0**	**128**	**8**	**2**	**8**	**0**	**0**
Arkansas	0	2,681	0	29	0	0	0
Louisiana	0	0	0	2	8	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	25	3	13	0	0
Mountain	**20**	**0**	**0**	**4**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	72	0	0	27	0	0	0
Montana	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	21	0	0	8	0	0	0
Pacific Contiguous	**0**	**10**	**0**	**2**	**4**	**0**	**0**
California	0	1	0	1	4	0	0
Oregon	0	0	0	51	0	0	0
Washington	0	87	0	38	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**147**
Alaska	0	9	0	0	0	0	0
Hawaii	0	0	0	0	0	0	147
U.S. Total	**4**	**8**	**18**	**2**	**7**	**0**	**17**

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 February 2017 (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**	**7**	**0**	**0**	**8**
Connecticut	0	0	0	0	0	0	0	29
Maine	0	0	0	0	7	0	0	9
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**94**	**7**	**0**	**0**	**9**
New Jersey	0	0	0	157	157	0	0	8
New York	0	0	0	0	13	0	0	7
Pennsylvania	0	0	0	113	8	0	0	14
East North Central	**0**	**0**	**0**	**0**	**7**	**0**	**3**	**5**
Illinois	0	0	0	0	0	0	0	7
Indiana	0	0	0	0	35	0	0	11
Michigan	0	0	0	0	11	0	0	10
Ohio	0	0	0	0	23	0	0	10
Wisconsin	0	0	0	0	10	0	45	11
West North Central	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	131	0	0	69
Minnesota	0	0	0	0	0	0	0	6
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	6
North Dakota	0	0	0	0	108	0	0	32
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**1**	**3**
Delaware	0	0	0	0	78	0	0	22
Florida	0	0	0	0	5	0	0	6
Georgia	0	0	0	0	4	0	14	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	5	0	0	6
South Carolina	0	0	0	0	3	0	0	3
Virginia	0	0	0	0	0	0	0	2
West Virginia	0	0	0	0	0	0	0	11
East South Central	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**4**
Alabama	0	0	0	0	4	0	0	7
Kentucky	0	0	0	0	17	0	0	12
Mississippi	0	0	0	0	4	0	0	7
Tennessee	0	0	0	0	6	0	0	4
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**3**	**2**
Arkansas	0	0	0	0	5	0	69	6
Louisiana	0	0	0	0	4	0	3	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	10	0	6	2
Mountain	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**3**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	3	0	0	9
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	6
Pacific Contiguous	**0**	**0**	**0**	**76**	**6**	**0**	**2**	**2**
California	0	0	0	76	10	0	2	1
Oregon	0	0	0	0	13	0	0	13
Washington	0	0	0	0	8	0	0	8
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**129**	**0**	**0**	**19**
Alaska	0	0	0	0	129	0	0	7
Hawaii	0	0	0	0	0	0	0	28
U.S. Total	**0**	**0**	**0**	**56**	**2**	**0**	**1**	**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, February 2017

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

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

Table A.6.B. Relative Standard Error for Sales of Electricity to Ultimate Customers

by End-Use Sector, Census Division, and State, Year-to-Date through February 2017

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**1**	**0**	**3**	**0**	**1**
Connecticut	0	1	5	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	7	0	1
New Hampshire	1	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	3	3	6	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	0	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	6	4	0	2
Kansas	2	1	5	0	2
Minnesota	2	4	5	0	2
Missouri	1	1	6	0	1
Nebraska	2	6	6	0	3
North Dakota	2	3	7	0	3
South Dakota	3	7	9	0	3
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	1	1	3	0	1
Maryland	0	0	4	0	0
North Carolina	1	1	2	0	1
South Carolina	2	1	2	0	1
Virginia	1	0	3	0	1
West Virginia	0	0	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	2	1	2	0	1
Kentucky	2	2	3	0	1
Mississippi	2	1	4	0	2
Tennessee	1	1	4	0	1
West South Central	**1**	**0**	**1**	**0**	**0**
Arkansas	2	1	3	0	1
Louisiana	2	1	1	0	1
Oklahoma	2	1	4	0	1
Texas	1	0	1	0	1
Mountain	**1**	**2**	**1**	**0**	**1**
Arizona	1	2	3	0	1
Colorado	2	4	5	0	2
Idaho	1	4	4	0	1
Montana	2	6	6	0	3
Nevada	1	2	1	0	1
New Mexico	3	7	6	0	3
Utah	2	4	2	0	2
Wyoming	2	6	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	7	0	2
Washington	1	3	5	0	2
Pacific Noncontiguous	**1**	**4**	**3**	**0**	**2**
Alaska	3	8	10	0	4
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**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, February 2017

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**1**	**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	4	4	6	0	3
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	1	0	3	0	0
New York	0	0	2	0	0
Pennsylvania	1	0	1	0	0
East North Central	**1**	**1**	**2**	**0**	**1**
Illinois	1	1	3	0	1
Indiana	2	2	2	0	1
Michigan	1	2	4	0	1
Ohio	1	1	3	0	1
Wisconsin	2	3	6	0	2
West North Central	**1**	**2**	**4**	**0**	**1**
Iowa	3	7	8	0	3
Kansas	2	2	6	0	2
Minnesota	2	3	7	0	2
Missouri	3	2	7	0	2
Nebraska	3	7	11	0	4
North Dakota	3	4	8	0	3
South Dakota	4	7	13	0	4
South Atlantic	**1**	**0**	**2**	**0**	**0**
Delaware	2	3	12	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	5	0	1
Georgia	1	1	4	0	1
Maryland	1	1	4	0	0
North Carolina	1	1	3	0	1
South Carolina	2	1	3	0	1
Virginia	1	1	4	0	1
West Virginia	1	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	3	0	1
Kentucky	3	3	4	0	2
Mississippi	2	2	5	0	2
Tennessee	2	2	5	0	1
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	2	4	0	2
Louisiana	2	1	1	0	1
Oklahoma	2	2	5	0	2
Texas	1	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	2	3	5	0	2
Colorado	3	5	7	0	3
Idaho	2	4	6	0	2
Montana	3	5	17	0	3
Nevada	1	4	2	0	1
New Mexico	5	8	11	0	4
Utah	4	6	3	0	3
Wyoming	4	6	4	0	3
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	1	1	2	0	1
Oregon	2	3	11	0	2
Washington	1	3	9	0	2
Pacific Noncontiguous	**1**	**3**	**3**	**0**	**1**
Alaska	3	6	11	0	4
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 February 2017

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	0	1	2	0	0
Maine	1	1	2	0	1
Massachusetts	1	1	4	0	1
New Hampshire	1	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	3	3	5	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	1	3	0	1
Ohio	1	1	3	0	1
Wisconsin	1	2	5	0	2
West North Central	**1**	**1**	**3**	**0**	**1**
Iowa	2	6	7	0	3
Kansas	2	2	5	0	1
Minnesota	2	3	6	0	2
Missouri	2	2	6	0	1
Nebraska	3	6	10	0	3
North Dakota	2	3	7	0	3
South Dakota	3	6	11	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	2	2	10	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	4	0	1
Georgia	1	1	3	0	1
Maryland	1	0	3	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	3	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	2	4	0	2
Mississippi	2	2	4	0	2
Tennessee	2	2	4	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	2	2	4	0	1
Louisiana	2	1	1	0	1
Oklahoma	2	2	5	0	1
Texas	1	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	2	4	0	1
Colorado	2	4	6	0	2
Idaho	1	3	5	0	1
Montana	2	5	13	0	3
Nevada	1	3	1	0	1
New Mexico	4	7	9	0	4
Utah	3	5	3	0	2
Wyoming	3	5	4	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**0**
California	0	1	2	0	0
Oregon	1	3	9	0	2
Washington	1	2	8	0	1
Pacific Noncontiguous	**1**	**2**	**2**	**0**	**1**
Alaska	3	6	10	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, February 2017

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**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	1
Rhode Island	0	0	0	0	0
Vermont	2	2	3	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	2	0	0
Indiana	1	1	1	0	1
Michigan	0	1	2	0	0
Ohio	1	0	1	0	0
Wisconsin	1	1	2	0	1
West North Central	**1**	**1**	**2**	**0**	**0**
Iowa	1	2	4	0	1
Kansas	1	1	3	0	1
Minnesota	1	1	3	0	1
Missouri	1	1	2	0	1
Nebraska	2	2	5	0	1
North Dakota	1	1	2	0	1
South Dakota	2	2	4	0	1
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	1	5	0	1
District of Columbia	0	0	0	0	0
Florida	0	1	2	0	0
Georgia	1	1	2	0	1
Maryland	0	0	2	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	1	0	1
Virginia	0	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	2	1	1	0	1
Mississippi	1	2	2	0	1
Tennessee	1	1	2	0	1
West South Central	**0**	**1**	**1**	**0**	**0**
Arkansas	1	2	2	0	1
Louisiana	1	1	1	0	0
Oklahoma	1	1	3	0	1
Texas	1	1	1	0	0
Mountain	**0**	**1**	**1**	**0**	**0**
Arizona	1	1	2	0	1
Colorado	1	1	3	0	1
Idaho	1	1	2	0	1
Montana	1	2	11	0	1
Nevada	1	2	1	0	1
New Mexico	2	2	5	0	2
Utah	1	1	2	0	1
Wyoming	2	2	2	0	1
Pacific Contiguous	**0**	**1**	**1**	**0**	**0**
California	0	0	1	0	0
Oregon	1	1	4	0	1
Washington	1	1	3	0	1
Pacific Noncontiguous	**1**	**2**	**1**	**0**	**1**
Alaska	2	4	4	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 February 2017

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	0	1	4	0	1
Maine	1	1	2	0	0
Massachusetts	1	1	6	0	1
New Hampshire	1	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	3	3	5	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	2	0	1
Indiana	1	1	2	0	1
Michigan	1	1	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	2	4	0	1
West North Central	**1**	**1**	**3**	**0**	**1**
Iowa	2	5	5	0	2
Kansas	2	1	4	0	1
Minnesota	2	3	5	0	2
Missouri	2	1	5	0	1
Nebraska	2	5	8	0	3
North Dakota	2	3	6	0	2
South Dakota	3	6	9	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	2	2	9	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	4	0	0
Georgia	1	1	3	0	1
Maryland	0	0	3	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	1	3	0	0
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	2	3	0	1
Mississippi	2	2	4	0	1
Tennessee	1	2	4	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	1	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	1
Texas	1	1	1	0	0
Mountain	**1**	**1**	**2**	**0**	**1**
Arizona	1	2	3	0	1
Colorado	2	4	5	0	2
Idaho	1	3	4	0	1
Montana	2	5	11	0	2
Nevada	1	3	1	0	1
New Mexico	3	6	8	0	3
Utah	2	4	2	0	2
Wyoming	2	5	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	0
Oregon	1	3	7	0	2
Washington	1	3	6	0	1
Pacific Noncontiguous	**1**	**3**	**2**	**0**	**1**
Alaska	2	6	8	0	3
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 2017

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
2017	1	01/08/2017 9:07 AM	01/13/2017 2:30 PM	125 Hours, 23 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather or Natural Disaster	Unknown	106000
2017	1	01/08/2017 11:59 PM	ongoing	ongoing	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2017	1	01/10/2017 7:30 PM	01/13/2017 2:30 PM	67 Hours, 0 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather or Natural Disaster	Unknown	87000
2017	1	01/15/2017 6:35 AM	01/15/2017 7:44 AM	1 Hours, 9 Minutes	Los Angeles Department of Water & Power	WECC	California: Los Angeles County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Transmission Disruption	176	126000
2017	1	01/15/2017 9:27 AM	01/17/2017 1:58 AM	40 Hours, 31 Minutes	Oklahoma Municipal Power Authority	SPP	Oklahoma: Harper 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-Weather or Natural Disaster	1	788
2017	1	01/18/2017 6:05 PM	01/19/2017 12:05 AM	6 Hours, 0 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather or Natural Disaster	Unknown	75000
2017	1	01/22/2017 4:15 AM	01/24/2017 2:00 PM	57 Hours, 45 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather or Natural Disaster	97	64000
2017	1	01/22/2017 6:00 AM	ongoing	ongoing	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2017	1	01/22/2017 4:00 PM	01/23/2017 3:26 AM	11 Hours, 26 Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi: Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather or Natural Disaster	100	29965
2017	2	02/02/2017 1:04 AM	02/02/2017 5:00 AM	3 Hours, 56 Minutes	Public Service Company of New Mexico	WECC	New Mexico: Bernalillo County, Santa Fe County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	396	149223
2017	2	02/02/2017 1:11 AM	ongoing	ongoing	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-Transmission Interruption	400	Unknown
2017	2	02/13/2017 1:00 PM	02/15/2017 1:35 PM	48 Hours, 35 Minutes	North Carolina Mun Power Agny #1	SERC	North Carolina: Union County;	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems-Vandalism	0	0
2017	2	02/17/2017 8:09 AM	02/22/2017 7:30 PM	131 Hours, 21 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	254	169250
2017	2	02/17/2017 1:00 PM	02/17/2017 1:15 PM	0 Hours, 15 Minutes	Nevada Power Company d/b/a NV Energy	WECC	Nevada: Clark County;	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems-Vandalism	0	0
2017	2	02/17/2017 3:00 PM	02/20/2017 11:00 AM	68 Hours, 0 Minutes	LADWP	WECC	California: Los Angeles County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Weather	Unknown	111591

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, 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	. .	. Hours, . 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	03/01/2016 3:00 PM	. .	. Hours, . Minutes	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	. .	. Hours, . 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	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	. .	. Hours, . Minutes	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.2 Major Disturbances and Unusual Occurrences, 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	. .	. Hours, . Minutes	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	. .	. Hours, . Minutes	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	. .	. Hours, . 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	0	0
2016	9	09/01/2016 10:00 PM	. .	. Hours, . Minutes	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.2 Major Disturbances and Unusual Occurrences, 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	. .	. Hours, . Minutes	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	. .	. Hours, . Minutes	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.2 Major Disturbances and Unusual Occurrences, 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	. .	. Hours, . Minutes	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.'

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 ith utility's 2013 (or the last published year) solar PV capacity

$y_{i_{2015,m}}$ is the ith 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

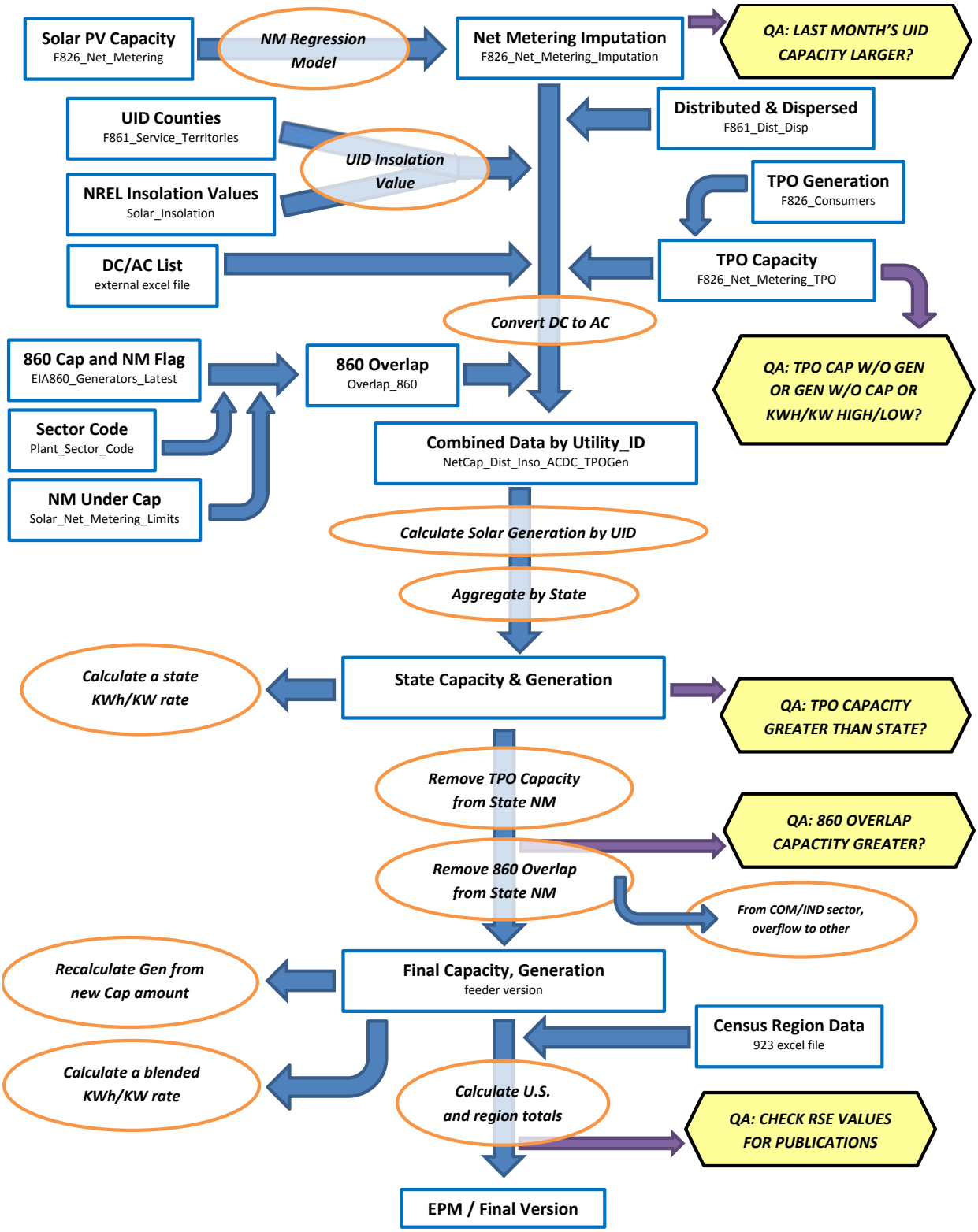
TMY3 (1991-2005) Weather Stations by MSA

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, February 2017

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	21.55	6.27	--	1.03
Connecticut	--	5.80	--	1.03
Maine	25.89	6.25	--	1.07
Massachusetts	20.66	6.30	--	1.03
New Hampshire	--	5.85	--	1.04
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.33	6.10	--	1.04
New Jersey	26.33	5.76	--	1.04
New York	25.73	6.25	--	1.03
Pennsylvania	23.14	5.97	--	1.04
East North Central	20.15	5.82	26.64	1.04
Illinois	17.87	5.80	--	1.00
Indiana	22.36	5.78	--	1.06
Michigan	18.09	5.94	26.62	1.03
Ohio	24.77	5.79	--	1.06
Wisconsin	17.92	5.80	26.81	1.04
West North Central	16.60	5.79	--	1.03
Iowa	17.72	5.74	--	1.02
Kansas	17.22	5.82	--	1.04
Minnesota	17.85	5.80	--	1.02
Missouri	17.60	5.75	--	1.01
Nebraska	16.91	--	--	1.06
North Dakota	13.21	5.87	--	1.00
South Dakota	16.56	--	--	--
South Atlantic	23.77	5.82	29.08	1.03
Delaware	25.67	5.67	--	1.04
District of Columbia	--	--	--	--
Florida	23.55	5.80	29.08	1.02
Georgia	20.28	5.95	--	1.04
Maryland	25.07	5.82	--	1.06
North Carolina	24.99	5.92	--	1.03
South Carolina	24.72	5.77	--	1.03
Virginia	23.22	5.77	--	1.05
West Virginia	24.87	5.78	--	1.09
East South Central	20.71	5.78	28.29	1.03
Alabama	18.76	5.75	--	1.03
Kentucky	21.79	5.81	28.29	1.01
Mississippi	13.80	5.80	--	1.03
Tennessee	21.98	5.76	--	1.01
West South Central	16.02	5.83	28.02	1.03
Arkansas	17.70	5.80	--	1.03
Louisiana	16.27	--	28.02	1.03
Oklahoma	17.36	5.77	--	1.05
Texas	15.55	5.86	--	1.03
Mountain	18.57	5.72	--	1.05
Arizona	19.24	5.50	--	1.04
Colorado	18.56	5.67	--	1.08
Idaho	--	--	--	--
Montana	16.89	5.92	--	1.03
Nevada	17.78	5.69	--	1.04
New Mexico	18.57	5.66	--	1.05
Utah	21.13	5.88	--	1.04
Wyoming	17.38	5.81	--	1.05
Pacific Contiguous	18.38	5.83	--	1.03
California	22.87	--	--	1.03
Oregon	17.20	5.83	--	1.04
Washington	16.85	--	--	1.09
Pacific Noncontiguous	18.49	6.12	--	1.00
Alaska	14.00	5.60	--	1.00
Hawaii	19.52	6.12	--	--
U.S. Total	19.15	6.03	28.05	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

	2013			2014			2015		
Item	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.