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This issue of the *Electric Power Monthly* includes a new Chapter 8 with data for the Commonwealth of Puerto Rico. The chapter currently includes data on electricity sales to ultimate consumers. Coverage will eventually be expanded to include power plant characteristics, operations, and generation data. Note that the data for Puerto Rico is not included in the other tables in the EPM, which continue to show data for the 50 states and the District of Columbia.
This issue, also, includes a new table, Table 1.7.C. Utility Scale Facility Net Generation from Natural Gas by Technology.
Also, Table 7.1 electricity exports and imports to/from Mexico for Jan.-Sep. 2017 were revised from the June 2018 issue.

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

Preface

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

Background

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

Data sources

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

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Net Generation and Consumption of Fuels for May														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	85,403	92,881	-8.1%	64,142	69,189	20,611	23,035	20	19	630	637	0	0
Petroleum Liquids	Utility Scale Facilities	1,026	1,002	2.4%	742	730	239	229	8	7	37	35	0	0
Petroleum Coke	Utility Scale Facilities	424	772	-45.1%	336	654	36	41	0	0	52	76	0	0
Natural Gas	Utility Scale Facilities	115,639	96,777	19.5%	57,381	47,955	50,272	40,987	609	583	7,378	7,252	0	0
Other Gas	Utility Scale Facilities	1,045	1,182	-11.6%	12	6	361	340	0	0	672	835	0	0
Nuclear	Utility Scale Facilities	67,320	61,313	9.8%	34,479	31,728	32,841	29,585	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	30,291	32,177	-5.9%	28,049	29,772	2,090	2,243	NM	NM	126	135	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	37,222	34,884	6.7%	3,852	4,058	30,545	28,210	285	298	2,539	2,319	0	0
... Wind	Utility Scale Facilities	23,405	22,642	3.4%	2,815	3,208	20,566	19,414	14	14	10	6	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	7,091	5,766	23.0%	547	368	6,465	5,330	71	65	NM	4	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,637	3,438	5.8%	288	273	900	925	4	7	2,444	2,233	0	0
... Other Biomass	Utility Scale Facilities	1,679	1,743	-3.7%	109	121	1,298	1,334	196	212	76	76	0	0
... Geothermal	Utility Scale Facilities	1,409	1,295	8.8%	93	88	1,315	1,207	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-390	-423	-7.8%	-309	-350	-81	-73	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,075	1,081	-0.6%	42	35	532	544	91	101	410	400	0	0
All Energy Sources	Utility Scale Facilities	339,056	321,645	5.4%	188,726	183,780	137,446	125,140	1,039	1,036	11,845	11,689	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	2,999	2,440	22.9%	0	0	0	0	951	774	291	252	1,757	1,415
Estimated Total Solar Photovoltaic	All Facilities	9,639	7,805	23.5%	523	367	6,038	4,928	1,022	838	NM	256	1,757	1,415
Estimated Total Solar	All Facilities	10,090	8,207	23.0%	547	368	6,465	5,330	1,022	838	NM	256	1,757	1,415
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	47,563	50,843	-6.5%	35,313	37,410	12,010	13,209	6	6	235	219	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,780	1,752	1.6%	1,302	1,306	418	394	19	16	41	37	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	176	320	-44.9%	140	264	24	38	0	0	13	18	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	867,336	723,289	19.9%	447,654	374,999	372,167	302,060	3,769	3,443	43,746	42,787	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,135	1,221	-7.0%	171	206	95	101	34	34	834	880	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	154	157	-2.1%	3	3	19	14	20	19	112	120	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	60	76	-21.7%	1	1	6	10	0	1	53	65	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	94,606	90,682	4.3%	3,170	2,960	27,574	26,132	5,695	5,562	58,167	56,028	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	48,699	52,064	-6.5%	35,485	37,616	12,105	13,310	40	40	1,069	1,098	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,934	1,910	1.3%	1,305	1,309	437	408	39	35	153	157	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	236	396	-40.4%	141	265	29	48	0	1	66	83	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	961,943	813,971	18.2%	450,825	377,959	399,741	328,192	9,464	9,005	101,913	98,815	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	129,095	163,212	-20.9%	107,544	129,141	20,895	33,168	69	99	586	803	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	28,940	32,722	-11.6%	18,987	20,595	8,144	10,286	360	415	1,449	1,427	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,280	1,030	24.2%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for May									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	May 2018	May 2017	Percentage Change	May 2018	May 2017	Percentage Change	May 2018	May 2017	Percentage Change
Residential	103,356	98,977	4.4%	13,595	12,879	5.6%	13.15	13.01	1.1%
Commercial	111,951	109,912	1.9%	11,769	11,633	1.2%	10.51	10.58	-0.7%
Industrial	81,402	80,147	1.6%	5,549	5,459	1.6%	6.82	6.81	0.1%
Transportation	591	583	1.4%	56	56	0.1%	9.46	9.58	-1.3%
All Sectors	297,299	289,619	2.7%	30,969	30,027	3.1%	10.42	10.37	0.5%

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 ES1.B. Total Electric Power Industry Summary Statistics, Year-to-Date 2018 and 2017

Net Generation and Consumption of Fuels for January through May														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	440,329	466,215	-5.6%	327,692	345,429	109,171	117,325	139	143	3,327	3,318	0	0
Petroleum Liquids	Utility Scale Facilities	8,722	4,926	77.1%	4,959	3,671	3,474	1,030	71	45	218	180	0	0
Petroleum Coke	Utility Scale Facilities	3,232	3,487	-7.3%	2,649	2,732	304	436	4	3	275	316	0	0
Natural Gas	Utility Scale Facilities	525,445	450,150	16.7%	254,535	219,191	231,089	191,360	3,037	2,966	36,784	36,633	0	0
Other Gas	Utility Scale Facilities	5,367	5,907	-9.1%	101	76	1,619	1,630	0	0	3,646	4,201	0	0
Nuclear	Utility Scale Facilities	332,879	319,830	4.1%	173,583	168,974	159,296	150,856	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	134,809	144,112	-6.5%	124,567	133,217	9,524	10,154	120	121	598	621	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	186,873	169,950	10.0%	21,758	20,656	151,560	136,049	1,312	1,310	12,244	11,935	0	0
... Wind	Utility Scale Facilities	128,206	117,504	9.1%	17,133	16,992	110,956	100,415	73	68	45	30	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	25,601	19,622	30.5%	2,152	1,271	23,175	18,126	243	212	31	12	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	17,737	17,466	1.6%	1,467	1,362	4,484	4,606	27	30	11,760	11,469	0	0
... Other Biomass	Utility Scale Facilities	8,647	8,685	-0.4%	582	595	6,687	6,665	970	1,000	409	424	0	0
... Geothermal	Utility Scale Facilities	6,681	6,673	0.1%	424	436	6,258	6,237	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-2,119	-2,326	-8.9%	-1,713	-1,936	-407	-390	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	5,337	5,252	1.6%	195	177	2,767	2,660	416	439	1,959	1,977	0	0
All Energy Sources	Utility Scale Facilities	1,640,873	1,567,503	4.7%	908,324	892,187	668,398	611,108	5,100	5,028	59,051	59,180	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	11,564	9,264	24.8%	0	0	0	0	3,726	2,971	1,132	968	6,706	5,325
Estimated Total Solar Photovoltaic	All Facilities	35,823	27,651	29.6%	2,106	1,270	21,879	16,892	3,969	3,183	1,162	980	6,706	5,325
Estimated Total Solar	All Facilities	37,165	28,886	28.7%	2,152	1,271	23,175	18,126	3,969	3,183	1,162	980	6,706	5,325
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	242,909	255,032	-4.8%	179,798	186,913	61,849	66,921	39	41	1,223	1,156	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	15,066	8,491	77.4%	8,916	6,451	5,799	1,772	122	75	230	194	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,242	1,363	-8.9%	1,061	1,107	118	179	1	1	62	76	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	3,842,519	3,294,426	16.6%	1,945,501	1,664,695	1,661,758	1,395,306	18,373	17,733	216,888	216,692	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	6,241	6,531	-4.4%	1,003	1,142	560	613	219	218	4,459	4,560	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,248	775	61.1%	64	30	177	93	235	132	772	519	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	319	367	-12.9%	5	2	42	50	5	6	267	309	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	494,391	473,150	4.5%	16,573	16,409	142,308	138,703	32,731	31,697	302,780	286,342	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	249,150	261,563	-4.7%	180,801	188,055	62,409	67,534	258	259	5,682	5,716	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	16,314	9,266	76.1%	8,979	6,481	5,976	1,864	357	207	1,002	713	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,561	1,730	-9.8%	1,066	1,109	160	229	6	7	329	385	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	4,336,910	3,767,576	15.1%	1,962,074	1,681,103	1,804,065	1,534,009	51,104	49,430	519,668	503,034	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through May									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	Percentage Change
Residential	566,868	523,979	8.2%	72,158	66,488	8.5%	12.73	12.69	0.3%
Commercial	538,179	527,900	1.9%	56,496	55,071	2.6%	10.50	10.43	0.7%
Industrial	381,472	381,423	0.0%	25,754	25,456	1.2%	6.75	6.67	1.2%
Transportation	3,210	3,119	2.9%	305	295	3.3%	9.50	9.47	0.3%
All Sectors	1,489,729	1,436,422	3.7%	154,712	147,310	5.0%	10.39	10.26	1.3%

YTD = Year-to-Date

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, 2018 and 2017

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
Coal (1000 tons)	46,365	49,206	39.69	41.01	259	266	232,732	255,108	39.49	40.31
Petroleum Liquids (1000 barrels)	1,441	1,082	86.68	W	137	150	10,416	6,694	81.94	69.83
Petroleum Coke (1000 tons)	152	242	68.58	57.46	4	6	1,190	1,281	69.51	57.45
Natural Gas (1000 Mcf)	792,700	625,854	3.14	3.60	553	495	3,621,748	2,881,219	3.72	3.71

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
Coal (1000 tons)	34,228	35,802	40.66	42.16	178	182	171,711	184,430	40.34	41.40
Petroleum Liquids (1000 barrels)	1,028	764	87.26	68.72	88	102	6,080	5,119	82.08	68.69
Petroleum Coke (1000 tons)	152	242	68.58	57.46	4	6	1,190	1,281	69.51	57.45
Natural Gas (1000 Mcf)	385,175	314,002	3.35	3.82	283	260	1,736,596	1,395,738	3.94	3.91

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
Coal (1000 tons)	11,453	12,642	36.06	36.90	62	64	57,590	66,960	36.17	36.53
Petroleum Liquids (1000 barrels)	389	293	85.04	W	38	39	4,155	1,455	81.84	73.78
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	346,719	260,637	2.86	3.29	222	189	1,580,886	1,220,442	3.54	3.49

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
Coal (1000 tons)	0	0	--	W	0	1	6	14	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)	758	483	W	W	3	3	3,723	2,897	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
Coal (1000 tons)	684	762	52.15	W	19	19	3,425	3,704	W	W
Petroleum Liquids (1000 barrels)	24	25	87.27	W	11	9	181	119	79.50	70.61
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	60,048	50,733	W	W	45	43	300,543	262,142	W	W

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Number of Plants represents the number of plants for which receipts data were collected this month.
.... 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, 2018 and 2017

Total (All Sectors)

	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Year-to-Date Receipts (Billion Btu)		Year-to-Date Cost (Dollars / Million Btu)	
Fuel	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
Coal	896,833	948,234	2.05	2.13	259	266	4,458,671	4,906,707	2.06	2.10
Petroleum Liquids	8,731	6,485	14.29	W	137	150	62,814	40,124	13.55	11.65
Petroleum Coke	4,344	6,776	2.41	2.05	4	6	33,527	35,891	2.47	2.05
Natural Gas	818,069	646,012	3.04	3.49	553	495	3,739,400	2,977,139	3.61	3.59
Fossil Fuels	1,727,977	1,607,507	2.56	W	716	662	8,294,412	7,959,861	2.81	2.67

Electric Utilities

	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Year-to-Date Receipts (Billion Btu)		Year-to-Date Cost (Dollars / Million Btu)	
Fuel	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
Coal	662,814	698,108	2.10	2.16	178	182	3,297,812	3,571,192	2.10	2.14
Petroleum Liquids	6,271	4,612	14.30	11.38	88	102	36,900	30,820	13.52	11.41
Petroleum Coke	4,344	6,776	2.41	2.05	4	6	33,527	35,891	2.47	2.05
Natural Gas	397,579	323,906	3.25	3.71	283	260	1,792,432	1,441,978	3.82	3.79
Fossil Fuels	1,071,009	1,033,402	2.60	2.68	395	374	5,160,670	5,079,881	2.78	2.66

Independent Power Producers

	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Year-to-Date Receipts (Billion Btu)		Year-to-Date Cost (Dollars / Million Btu)	
Fuel	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
Coal	219,907	234,471	1.88	1.99	62	64	1,089,391	1,257,227	1.91	1.94
Petroleum Liquids	2,311	1,718	14.24	W	38	39	24,784	8,562	13.64	12.54
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	357,868	269,235	2.77	3.19	222	189	1,633,543	1,261,487	3.43	3.38
Fossil Fuels	580,086	505,423	2.43	W	271	240	2,747,717	2,527,276	2.84	2.62

Commercial Sector

	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Year-to-Date Receipts (Billion Btu)		Year-to-Date Cost (Dollars / Million Btu)	
Fuel	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
Coal	0	11	--	W	0	1	130	319	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	776	497	W	W	3	3	3,829	2,986	W	W
Fossil Fuels	776	507	W	W	3	3	3,959	3,305	W	W

Industrial Sector

	Receipts (Billion Btu)		Cost (Dollars / Million Btu)		Number of Plants		Year-to-Date Receipts (Billion Btu)		Year-to-Date Cost (Dollars / Million Btu)	
Fuel	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
Coal	14,112	15,645	2.53	W	19	19	71,338	77,970	W	W
Petroleum Liquids	149	155	14.33	W	11	9	1,131	741	12.73	11.34
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	61,846	52,374	W	W	45	43	309,596	270,688	W	W
Fossil Fuels	76,106	68,174	W	W	47	45	382,065	349,400	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), 2008-May 2018
(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															
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	1,239,149	13,008	11,197	1,378,307	12,807	805,694	267,812	36,054	305,579	-6,686	13,754	4,076,675	18,812	51,483	54,866
2017	1,207,901	12,583	8,508	1,272,864	14,159	804,950	300,045	52,958	334,287	-6,495	13,045	4,014,804	24,139	73,828	77,097
Year 2016															
January	113,459	1,396	966	110,044	1,195	72,525	25,615	1,486	25,193	-312	1,153	352,719	980	2,380	2,465
February	92,705	1,299	910	98,552	1,062	65,638	24,139	2,242	26,496	-399	1,041	313,685	1,145	3,145	3,386
March	72,173	874	927	103,890	1,197	66,149	27,390	2,617	28,467	-384	1,090	304,390	1,525	3,885	4,143
April	72,113	833	1,006	98,876	1,132	62,732	25,878	2,880	26,787	-452	1,109	292,894	1,703	4,309	4,583
May	81,695	984	974	110,430	1,053	66,576	25,486	3,425	25,286	-321	1,195	316,784	1,879	4,916	5,304
June	116,034	972	1,005	131,395	1,043	67,175	23,237	3,473	22,763	-497	1,180	367,781	1,928	4,990	5,401
July	136,316	1,273	1,049	151,554	1,077	70,349	21,455	3,945	24,428	-784	1,225	411,887	2,000	5,474	5,945
August	135,635	1,258	1,078	154,760	1,064	71,526	19,570	3,969	20,496	-902	1,248	409,701	1,942	5,543	5,911
Sept	114,138	946	980	125,603	1,020	65,448	16,368	3,635	22,894	-715	1,168	351,484	1,735	5,007	5,370
October	99,194	937	635	102,898	913	60,733	17,339	3,191	26,558	-561	1,108	312,945	1,552	4,495	4,743
November	86,940	1,070	799	93,942	1,013	65,179	18,808	2,767	26,052	-607	1,098	297,062	1,257	3,840	4,024
December	118,747	1,166	869	96,364	1,037	71,662	22,528	2,424	30,159	-753	1,139	345,343	1,167	3,500	3,591
Year 2017															
January	115,501	1,156	917	91,447	1,120	73,121	27,853	2,152	27,600	-435	1,085	341,518	1,244	3,306	3,396
February	86,873	905	687	81,040	1,191	63,560	24,542	2,497	28,521	-508	990	290,297	1,383	3,744	3,880
March	89,427	979	707	94,708	1,257	65,093	30,221	4,433	32,934	-521	1,052	320,291	1,987	6,123	6,419
April	81,533	884	404	86,178	1,157	56,743	29,320	4,774	32,154	-439	1,044	293,752	2,211	6,674	6,985
May	92,881	1,002	772	96,777	1,182	61,313	32,177	5,766	29,118	-423	1,081	321,645	2,440	7,805	8,207
June	107,728	1,006	873	116,061	1,211	67,011	30,424	6,252	26,296	-568	1,096	357,390	2,503	8,290	8,755
July	127,959	940	807	144,720	1,261	71,314	25,745	5,505	22,814	-759	1,205	401,510	2,578	7,771	8,083
August	119,780	997	727	139,610	1,321	72,384	21,241	5,401	20,101	-638	1,217	382,140	2,501	7,562	7,903
Sept	98,404	987	678	116,728	1,120	68,098	18,965	5,168	23,647	-606	1,030	334,219	2,240	7,059	7,408
October	90,087	999	535	106,867	1,014	65,995	17,211	4,830	31,344	-463	1,025	319,443	2,002	6,518	6,832
November	91,151	922	693	92,585	1,198	66,618	19,840	3,120	29,935	-478	1,075	306,660	1,574	4,563	4,694
December	106,578	1,805	708	106,144	1,127	73,700	22,507	3,059	29,822	-656	1,145	345,939	1,476	4,413	4,536
Year 2018															
January	118,696	5,220	915	109,601	1,060	74,649	25,422	3,262	33,821	-547	1,115	373,213	1,655	4,789	4,917
February	82,051	792	718	96,317	1,092	64,790	25,593	4,037	30,385	-315	999	306,458	1,774	5,621	5,812
March	80,691	820	593	103,884	1,193	67,033	25,887	5,099	34,096	-490	1,111	319,917	2,414	7,256	7,513
April	73,489	864	582	100,004	976	59,087	27,615	6,111	32,841	-377	1,038	302,229	2,721	8,518	8,833
May	85,403	1,026	424	115,639	1,045	67,320	30,291	7,091	30,131	-390	1,075	339,056	2,999	9,639	10,090
Year to Date															
2016	432,144	5,387	4,782	521,792	5,639	333,620	128,508	12,650	132,229	-1,867	5,588	1,580,472	7,231	18,635	19,881
2017	466,215	4,926	3,487	450,150	5,907	319,830	144,112	19,622	150,328	-2,326	5,252	1,567,503	9,264	27,651	28,886
2018	440,329	8,722	3,232	525,445	5,367	332,879	134,809	25,601	161,272	-2,119	5,337	1,640,873	11,564	35,823	37,165
Rolling 12 Months Ending in May															
2017	1,273,219	12,547	9,902	1,306,665	13,075	791,904	283,417	43,026	323,678	-7,145	13,418	4,063,706	20,845	60,499	63,872
2018	1,182,016	16,379	8,252	1,348,160	13,618	817,998	290,741	58,937	345,231	-6,288	13,129	4,088,174	26,439	81,999	85,376

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 2016 and prior years are final. Values for 2017 and 2018 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), 2008-May 2018
(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													
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	226,993	32,670	3,384	40,947	11,218	7,265	3,331	15,826	267,812	609,445	18,812	51,483	54,866
2017	254,254	49,688	3,269	43,284	10,876	6,964	2,933	15,976	300,045	687,289	24,139	73,828	77,097
Year 2016													
January	18,466	1,400	86	3,600	915	603	277	1,332	25,615	52,294	980	2,380	2,465
February	20,138	2,000	241	3,406	886	537	285	1,243	24,139	52,877	1,145	3,145	3,386
March	21,939	2,360	257	3,403	949	579	281	1,315	27,390	58,474	1,525	3,885	4,143
April	20,799	2,606	273	2,967	932	593	287	1,209	25,878	55,544	1,703	4,309	4,583
May	18,848	3,037	388	3,187	980	649	280	1,342	25,486	54,197	1,879	4,916	5,304
June	16,303	3,062	412	3,414	934	614	247	1,251	23,237	49,473	1,928	4,990	5,401
July	17,618	3,473	471	3,658	943	635	262	1,311	21,455	49,828	2,000	5,474	5,945
August	13,589	3,602	368	3,722	942	634	285	1,324	19,570	44,035	1,942	5,543	5,911
Sept	16,404	3,272	363	3,407	895	589	272	1,327	16,368	42,897	1,735	5,007	5,370
October	20,335	2,942	249	3,176	839	589	265	1,353	17,339	47,088	1,552	4,495	4,743
November	19,406	2,583	184	3,391	993	602	296	1,364	18,808	47,627	1,257	3,840	4,024
December	23,146	2,333	91	3,615	1,011	640	293	1,454	22,528	55,111	1,167	3,500	3,591
Year 2017													
January	20,749	2,062	90	3,589	972	619	272	1,399	27,853	57,605	1,244	3,306	3,396
February	22,228	2,361	136	3,405	866	529	252	1,241	24,542	55,559	1,383	3,744	3,880
March	26,133	4,136	297	3,662	927	558	275	1,380	30,221	67,588	1,987	6,123	6,419
April	25,753	4,464	310	3,373	881	546	244	1,357	29,320	66,248	2,211	6,674	6,985
May	22,642	5,364	402	3,438	907	604	232	1,295	32,177	67,061	2,440	7,805	8,207
June	19,711	5,788	465	3,625	883	589	224	1,265	30,424	62,972	2,503	8,290	8,755
July	15,765	5,193	311	3,922	916	604	240	1,368	25,745	54,064	2,578	7,771	8,083
August	13,089	5,060	341	3,880	925	617	233	1,357	21,241	46,743	2,501	7,562	7,903
Sept	17,268	4,818	349	3,404	878	558	214	1,325	18,965	47,779	2,240	7,059	7,408
October	24,821	4,516	314	3,569	885	559	248	1,261	17,211	53,385	2,002	6,518	6,832
November	23,320	2,989	131	3,560	904	572	245	1,334	19,840	52,896	1,574	4,563	4,694
December	22,776	2,937	123	3,859	932	608	255	1,393	22,507	55,388	1,476	4,413	4,536
Year 2018													
January	26,834	3,134	128	3,847	925	590	252	1,373	25,422	62,505	1,655	4,789	4,917
February	23,936	3,846	191	3,461	883	561	241	1,303	25,593	60,015	1,774	5,621	5,812
March	27,275	4,842	258	3,630	941	599	267	1,385	25,887	65,082	2,414	7,256	7,513
April	26,757	5,797	314	3,163	889	570	251	1,212	27,615	66,567	2,721	8,518	8,833
May	23,405	6,640	451	3,637	872	574	233	1,409	30,291	67,513	2,999	9,639	10,090
Year to Date													
2016	100,191	11,404	1,246	16,564	4,661	2,961	1,410	6,441	128,508	273,386	7,231	18,635	19,881
2017	117,504	18,387	1,235	17,466	4,553	2,856	1,275	6,673	144,112	314,062	9,264	27,651	28,886
2018	128,206	24,259	1,342	17,737	4,510	2,894	1,243	6,681	134,809	321,682	11,564	35,823	37,165
Rolling 12 Months Ending in May													
2017	244,306	39,654	3,372	41,850	11,110	7,159	3,196	16,057	283,417	650,121	20,845	60,499	63,872
2018	264,956	55,560	3,377	43,555	10,832	7,002	2,901	15,984	290,741	694,909	26,439	81,999	85,376

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-May 2018
(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												
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	922,399	9,069	8,881	654,780	154	424,400	247,787	1,995	40,666	-5,629	421	2,304,923
2017	895,095	8,805	6,711	617,725	164	424,485	276,804	3,512	42,618	-5,448	473	2,270,945
Year 2016												
January	84,012	965	832	52,818	3	37,974	23,579	95	3,303	-230	34	203,384
February	69,852	830	734	48,009	4	34,281	22,015	135	3,624	-332	30	179,182
March	56,982	623	724	49,949	5	34,445	25,125	151	3,696	-291	42	171,452
April	53,542	602	858	46,425	7	34,036	23,742	169	3,887	-367	34	162,936
May	62,093	695	763	52,908	10	36,531	23,508	187	3,098	-257	33	179,569
June	86,611	710	793	63,858	16	37,000	21,716	188	3,034	-409	40	213,557
July	100,856	926	833	71,913	21	37,919	20,030	197	2,837	-678	34	234,890
August	100,156	905	856	72,293	13	37,927	18,241	207	2,432	-787	33	232,277
Sept	83,223	644	807	58,392	23	33,919	15,283	190	3,215	-626	35	195,105
October	72,950	658	418	47,710	7	30,016	16,149	182	3,479	-471	36	171,134
November	64,830	700	596	44,171	22	33,082	17,599	154	3,635	-522	35	164,301
December	87,293	811	667	46,333	22	37,268	20,799	139	4,425	-657	36	197,136
Year 2017												
January	86,110	838	743	44,020	14	38,425	25,700	148	3,310	-346	37	198,999
February	64,900	658	540	39,303	19	33,911	22,668	172	3,771	-418	31	165,556
March	66,119	779	535	45,959	17	34,693	28,009	281	4,428	-455	35	180,401
April	59,111	665	260	41,953	19	30,217	27,067	303	4,186	-368	38	163,451
May	69,189	730	654	47,955	6	31,728	29,772	368	3,690	-350	35	183,780
June	81,393	719	698	56,424	12	35,022	28,303	382	3,400	-474	38	205,918
July	96,931	671	673	70,858	21	37,874	23,736	358	2,627	-646	43	233,146
August	90,678	722	540	68,465	NM	38,667	19,464	352	2,252	-531	46	220,659
Sept	71,951	705	523	56,671	NM	35,496	17,450	338	2,848	-522	42	185,504
October	66,669	752	405	51,469	10	35,038	15,750	320	4,224	-388	41	174,289
November	65,099	654	583	44,546	17	34,541	18,048	241	3,978	-394	42	167,355
December	76,945	911	556	50,102	25	38,871	20,836	251	3,904	-557	43	191,887
Year 2018												
January	88,381	2,364	770	54,200	26	39,366	23,621	257	4,401	-475	37	212,947
February	61,125	624	575	46,364	18	33,941	23,653	354	3,803	-226	35	170,268
March	58,622	598	491	49,147	17	35,262	23,870	473	4,209	-408	44	172,325
April	55,421	632	477	47,442	28	30,534	25,374	520	3,887	-295	37	164,058
May	64,142	742	336	57,381	12	34,479	28,049	547	3,305	-309	42	188,726
Year to Date												
2016	326,481	3,715	3,910	250,109	30	177,267	117,970	738	17,609	-1,478	173	896,523
2017	345,429	3,671	2,732	219,191	76	168,974	133,217	1,271	19,385	-1,936	177	892,187
2018	327,692	4,959	2,649	254,535	101	173,583	124,567	2,152	19,606	-1,713	195	908,324
Rolling 12 Months Ending in May												
2017	941,348	9,025	7,703	623,862	200	416,107	263,034	2,529	42,441	-6,087	425	2,300,587
2018	877,357	10,093	6,628	653,069	NM	429,093	268,154	4,393	42,840	-5,225	491	2,287,083

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 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2008-May 2018
(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												
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	307,263	3,360	1,401	624,600	3,758	381,294	18,539	33,502	233,553	-1,057	6,941	1,613,156
2017	304,398	3,235	1,013	558,439	4,013	380,465	21,585	48,814	259,889	-1,047	6,509	1,587,313
Year 2016												
January	28,612	379	42	48,969	341	34,551	1,884	1,363	19,168	-82	589	135,816
February	22,057	416	99	42,840	295	31,357	1,991	2,065	20,345	-66	540	121,939
March	14,363	210	138	45,900	355	31,704	2,100	2,420	22,164	-93	549	119,810
April	17,877	188	97	44,832	311	28,696	1,993	2,662	20,487	-84	554	117,612
May	18,842	233	124	49,574	303	30,046	1,847	3,188	19,608	-64	610	124,310
June	28,585	214	131	59,185	335	30,175	1,410	3,229	17,117	-88	595	140,888
July	34,564	291	136	70,645	324	32,430	1,306	3,690	18,856	-106	610	162,745
August	34,607	309	140	73,317	319	33,599	1,217	3,701	15,341	-115	617	163,051
Sept	30,124	258	113	58,805	323	31,529	996	3,394	17,145	-89	557	143,155
October	25,524	232	141	47,044	228	30,717	1,080	2,965	20,549	-90	549	128,939
November	21,446	325	116	41,736	330	32,097	1,122	2,576	19,760	-85	560	119,981
December	30,661	307	124	41,755	296	34,394	1,591	2,250	23,013	-96	613	134,908
Year 2017												
January	28,593	264	116	38,893	337	34,695	2,008	1,981	21,600	-90	580	128,978
February	21,279	203	92	34,219	317	29,650	1,741	2,297	22,205	-90	513	112,426
March	22,607	155	92	40,738	355	30,400	2,059	4,101	25,836	-66	517	126,794
April	21,810	179	95	36,522	281	26,526	2,103	4,418	25,402	-71	506	117,771
May	23,035	229	41	40,987	340	29,585	2,243	5,330	22,880	-73	544	125,140
June	25,605	246	100	51,504	331	31,988	1,972	5,792	20,276	-93	549	138,270
July	30,301	227	47	65,181	356	33,440	1,867	5,077	17,361	-114	571	154,316
August	28,374	232	113	62,813	366	33,717	1,652	4,982	15,031	-107	580	147,754
Sept	25,775	243	97	52,413	332	32,602	1,402	4,764	18,304	-84	508	136,355
October	22,715	203	84	47,683	306	30,957	1,346	4,451	24,554	-75	518	132,743
November	25,391	222	35	40,082	348	32,077	1,657	2,845	23,363	-84	537	126,473
December	28,912	832	100	47,404	343	34,828	1,534	2,776	23,076	-99	586	140,293
Year 2018												
January	29,517	2,753	92	46,793	304	35,283	1,665	2,972	26,648	-72	582	146,536
February	20,233	119	95	42,294	313	30,849	1,804	3,639	24,057	-89	550	123,864
March	21,362	174	41	46,971	337	31,770	1,870	4,574	27,192	-82	569	134,779
April	17,448	190	39	44,759	306	28,553	2,095	5,525	26,408	-82	534	125,774
May	20,611	239	36	50,272	361	32,841	2,090	6,465	24,080	-81	532	137,446
Year to Date												
2016	101,752	1,425	500	232,115	1,604	156,353	9,816	11,698	101,772	-389	2,840	619,488
2017	117,325	1,030	436	191,360	1,630	150,856	10,154	18,126	117,923	-390	2,660	611,108
2018	109,171	3,474	304	231,089	1,619	159,296	9,524	23,175	128,384	-407	2,767	668,398
Rolling 12 Months Ending in May												
2017	322,836	2,964	1,337	583,845	3,784	375,798	18,876	39,931	249,704	-1,058	6,761	1,604,777
2018	296,244	5,679	881	598,169	4,002	388,905	20,955	53,863	270,350	-1,063	6,616	1,644,602

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-May 2018
(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															
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	383	77	6	7,730	0	0	217	529	2,697	0	1,068	12,706	6,158	6,687	6,687
2017	335	106	8	7,512	0	0	243	578	2,642	0	1,095	12,518	7,700	8,277	8,277
Year 2016															
January	43	8	1	605	0	0	21	26	230	0	89	1,022	346	373	373
February	45	8	1	570	0	0	18	39	210	0	75	967	398	437	437
March	46	3	1	579	0	0	22	44	225	0	90	1,011	520	564	564
April	24	6	0	551	0	0	15	46	221	0	97	961	566	612	612
May	20	6	0	607	0	0	12	48	230	0	96	1,019	616	663	663
June	23	5	0	692	0	0	13	53	220	0	83	1,089	623	676	676
July	24	8	1	831	0	0	15	55	234	0	96	1,263	640	696	696
August	26	7	0	859	0	0	19	58	234	0	95	1,298	620	677	677
Sept	29	4	0	700	0	0	23	48	223	0	87	1,114	556	605	605
October	27	5	0	617	0	0	21	42	218	0	90	1,021	493	536	536
November	35	8	0	521	0	0	17	36	224	0	85	927	393	428	428
December	42	8	1	598	0	0	21	33	228	0	85	1,015	387	420	420
Year 2017															
January	41	14	1	648	0	0	23	22	224	0	85	1,057	414	436	436
February	32	8	1	566	0	0	NM	26	203	0	78	934	454	480	480
March	32	10	1	638	0	0	NM	48	224	0	87	1,066	630	679	679
April	19	6	0	532	0	0	NM	50	214	0	87	934	700	750	750
May	19	7	0	583	0	0	NM	65	233	0	101	1,036	774	838	838
June	23	6	0	645	0	0	NM	71	215	0	90	1,075	781	852	852
July	29	8	0	703	0	0	NM	63	226	0	100	1,150	818	881	881
August	27	9	1	698	0	0	NM	60	225	0	101	1,137	798	858	858
Sept	27	8	1	651	0	0	14	58	208	0	90	1,058	713	772	772
October	24	7	1	627	0	0	NM	53	219	0	95	1,039	633	686	686
November	27	8	1	595	0	0	NM	31	221	0	88	986	501	532	532
December	36	NM	1	626	0	0	NM	29	229	0	92	1,046	485	514	514
Year 2018															
January	42	NM	1	640	0	0	NM	29	221	0	85	1,078	540	569	569
February	30	8	1	588	0	0	NM	39	198	0	73	959	594	632	632
March	25	9	1	610	0	0	NM	46	222	0	84	1,021	779	825	825
April	21	9	0	591	0	0	NM	58	214	0	82	1,003	863	921	921
May	20	8	0	609	0	0	NM	71	214	0	91	1,039	951	1,022	1,022
Year to Date															
2016	178	31	4	2,913	0	0	87	203	1,116	0	448	4,980	2,446	2,649	2,649
2017	143	45	3	2,966	0	0	121	212	1,098	0	439	5,028	2,971	3,183	3,183
2018	139	71	4	3,037	0	0	120	243	1,069	0	416	5,100	3,726	3,969	3,969
Rolling 12 Months Ending in May															
2017	349	90	5	7,783	0	0	NM	538	2,679	0	1,059	12,755	6,683	7,221	7,221
2018	331	NM	9	7,583	0	0	NM	609	2,613	0	1,072	12,590	8,454	9,063	9,063

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 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: 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, 2008-May 2018
(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															
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	9,103	503	909	91,197	8,895	0	1,269	27	28,663	0	5,324	145,890	2,060	2,087	2,087
2017	8,074	437	776	89,188	9,982	0	1,413	54	29,138	0	4,968	144,028	2,518	2,572	2,572
Year 2016															
January	793	45	91	7,653	851	0	130	1	2,492	0	442	12,497	113	115	115
February	750	45	76	7,133	763	0	115	2	2,317	0	396	11,597	124	126	126
March	781	39	63	7,462	837	0	142	2	2,381	0	409	12,117	171	173	173
April	670	37	50	7,067	815	0	128	2	2,192	0	424	11,386	186	189	189
May	740	51	87	7,341	740	0	119	3	2,350	0	456	11,886	206	208	208
June	814	44	81	7,661	692	0	99	3	2,391	0	463	12,248	206	209	209
July	873	48	79	8,165	731	0	104	3	2,501	0	486	12,989	214	217	217
August	847	37	81	8,291	732	0	92	3	2,489	0	503	13,075	209	212	212
Sept	762	41	60	7,706	674	0	65	2	2,312	0	489	12,111	190	192	192
October	693	41	75	7,527	679	0	88	2	2,312	0	433	11,851	174	176	176
November	630	37	87	7,514	662	0	69	2	2,433	0	418	11,852	139	140	140
December	750	40	78	7,678	720	0	117	1	2,493	0	405	12,283	128	129	129
Year 2017															
January	757	41	57	7,885	769	0	123	NM	2,467	0	383	12,484	133	NM	NM
February	662	35	55	6,952	855	0	112	NM	2,342	0	367	11,381	147	NM	NM
March	669	35	79	7,372	885	0	127	NM	2,446	0	413	12,030	209	NM	NM
April	593	34	48	7,171	857	0	124	NM	2,353	0	413	11,596	227	NM	NM
May	637	35	76	7,252	835	0	135	4	2,315	0	400	11,689	252	256	256
June	706	35	75	7,489	867	0	124	8	2,404	0	419	12,127	254	262	262
July	699	34	87	7,977	884	0	121	7	2,600	0	490	12,897	264	272	272
August	700	34	72	7,634	951	0	109	7	2,593	0	489	12,590	258	265	265
Sept	652	32	56	6,993	787	0	98	6	2,287	0	390	11,301	235	241	241
October	680	37	45	7,087	698	0	102	6	2,346	0	372	11,373	214	220	220
November	634	38	74	7,362	834	0	120	4	2,373	0	408	11,846	170	174	174
December	685	47	51	8,013	759	0	119	NM	2,613	0	423	12,714	155	NM	NM
Year 2018															
January	756	67	52	7,968	730	0	113	NM	2,552	0	411	12,652	164	NM	NM
February	662	40	46	7,071	762	0	114	5	2,327	0	340	11,368	172	178	178
March	681	40	60	7,156	839	0	124	6	2,472	0	413	11,792	241	247	247
April	599	33	65	7,211	642	0	121	8	2,331	0	384	11,394	263	270	270
May	630	37	52	7,378	672	0	126	NM	2,531	0	410	11,845	291	NM	NM
Year to Date															
2016	3,734	216	368	36,655	4,005	0	635	11	11,732	0	2,127	59,482	801	811	811
2017	3,318	180	316	36,633	4,201	0	621	12	11,923	0	1,977	59,180	968	980	980
2018	3,327	218	275	36,784	3,646	0	598	31	12,213	0	1,959	59,051	1,132	1,162	1,162
Rolling 12 Months Ending in May															
2017	8,686	468	857	91,175	9,091	0	1,255	NM	28,854	0	5,173	145,588	2,227	NM	NM
2018	8,083	475	735	89,339	9,427	0	1,391	NM	29,428	0	4,950	143,899	2,682	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 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
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-May 2018 (Thousand Megawatthours)

	Small Scale Generation
Period	**Estimated Small Scale Solar Photovoltaic Generation**
Annual Totals	
2014	4,947
2015	6,999
2016	10,595
2017	13,922
Year 2016	
January	520
February	622
March	835
April	951
May	1,058
June	1,099
July	1,146
August	1,113
Sept	989
October	884
November	726
December	653
Year 2017	
January	697
February	783
March	1,147
April	1,284
May	1,415
June	1,468
July	1,495
August	1,446
Sept	1,292
October	1,156
November	903
December	837
Year 2018	
January	951
February	1,008
March	1,395
April	1,596
May	1,757
Year to Date	
2016	3,985
2017	5,325
2018	6,706
Rolling 12 Months Ending in May	
2017	11,935
2018	15,302

See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 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, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	7,810	7,828	-0.2%	142	203	7,358	7,305	77	84	233	237
Connecticut	2,914	2,545	14.5%	7	8	2,842	2,476	NM	NM	44	42
Maine	940	925	1.7%	0	0	764	736	11	19	165	171
Massachusetts	1,964	2,297	-14.5%	38	40	1,867	2,200	37	37	21	21
New Hampshire	1,327	1,432	-7.3%	36	79	1,285	1,346	4	5	3	3
Rhode Island	489	444	10.0%	0	0	485	440	NM	5	0	0
Vermont	176	186	-5.0%	61	77	115	108	0	0	0	0
Middle Atlantic	32,603	30,334	7.5%	3,003	2,752	29,092	27,057	185	183	323	342
New Jersey	5,822	5,496	5.9%	15	19	5,707	5,367	61	58	39	52
New York	10,538	9,970	5.7%	2,974	2,718	7,392	7,081	93	93	80	78
Pennsylvania	16,243	14,869	9.2%	15	14	15,993	14,609	30	32	205	213
East North Central	46,541	43,294	7.5%	18,298	18,292	27,244	24,014	153	147	845	842
Illinois	14,978	13,617	10.0%	537	411	14,196	12,984	25	28	220	194
Indiana	8,246	6,552	25.8%	6,241	5,608	1,657	553	25	23	323	369
Michigan	9,455	9,602	-1.5%	6,142	7,260	3,126	2,166	67	70	120	107
Ohio	8,924	9,132	-2.3%	1,652	1,839	7,190	7,224	26	17	57	53
Wisconsin	4,938	4,391	12.5%	3,727	3,174	1,076	1,087	10	10	126	120
West North Central	28,311	27,086	4.5%	23,083	21,726	4,825	4,963	50	50	353	347
Iowa	5,214	4,824	8.1%	4,007	3,541	1,007	1,084	18	17	182	183
Kansas	4,192	3,953	6.0%	2,759	2,476	1,427	1,474	NM	NM	4	NM
Minnesota	5,002	4,312	16.0%	3,863	3,230	1,007	946	15	15	117	121
Missouri	6,961	7,347	-5.2%	6,468	7,063	476	264	14	15	3	4
Nebraska	2,921	2,537	15.2%	2,551	2,067	337	438	2	2	32	29
North Dakota	2,915	3,078	-5.3%	2,462	2,502	439	567	0	0	14	NM
South Dakota	1,106	1,036	6.7%	975	847	131	190	NM	NM	0	0
South Atlantic	68,098	67,474	0.9%	54,633	55,794	11,741	9,945	142	106	1,582	1,629
Delaware	505	738	-31.6%	NM	2	440	640	NM	NM	63	96
District of Columbia	4	5	-17.3%	0	0	5	4	-1	1	0	0
Florida	20,493	21,562	-5.0%	18,989	19,820	1,062	1,272	6	6	436	463
Georgia	10,856	11,279	-3.8%	8,760	9,665	1,665	1,193	NM	NM	430	420
Maryland	4,161	2,926	42.2%	313	NM	3,745	2,868	80	39	23	17
North Carolina	11,183	10,910	2.5%	9,541	9,530	1,452	1,193	18	19	172	167
South Carolina	8,138	7,279	11.8%	7,685	6,772	279	332	0	0	174	175
Virginia	7,406	6,884	7.6%	5,599	5,275	1,551	1,373	38	39	218	197
West Virginia	5,351	5,893	-9.2%	3,745	4,729	1,542	1,070	0	0	65	94
East South Central	30,258	28,665	5.6%	25,236	24,653	4,241	3,278	15	NM	766	720
Alabama	12,243	11,776	4.0%	8,572	8,840	3,295	2,588	0	0	375	349
Kentucky	6,416	6,147	4.4%	6,337	6,074	40	25	0	0	38	48
Mississippi	5,276	5,681	-7.1%	4,232	4,891	874	639	0	0	171	151
Tennessee	6,322	5,060	24.9%	6,094	4,847	32	26	15	NM	181	172
West South Central	64,106	55,876	14.7%	21,041	16,651	36,857	33,104	66	82	6,142	6,039
Arkansas	5,295	4,048	30.8%	3,695	2,645	1,448	1,273	0	1	151	129
Louisiana	8,792	7,938	10.8%	5,353	4,492	1,020	929	11	NM	2,407	2,508
Oklahoma	8,322	5,786	43.8%	3,991	2,787	4,257	2,962	0	0	74	37
Texas	41,697	38,104	9.4%	8,001	6,728	30,132	27,939	55	72	3,509	3,365
Mountain	27,924	27,564	1.3%	21,311	20,994	6,340	6,287	49	50	225	231
Arizona	8,749	8,376	4.5%	7,330	6,988	1,404	1,373	16	15	0	0
Colorado	4,334	4,278	1.3%	3,234	3,135	1,088	1,133	NM	5	7	6
Idaho	1,529	1,505	1.6%	1,038	1,022	438	436	4	4	49	43
Montana	2,042	2,150	-5.1%	1,209	1,190	831	959	0	0	1	1
Nevada	3,077	2,858	7.7%	1,980	1,855	1,069	969	13	12	15	23
New Mexico	2,565	2,397	7.0%	1,650	1,599	909	789	NM	9	0	0
Utah	2,680	2,744	-2.3%	2,269	2,310	358	378	5	6	49	49
Wyoming	2,947	3,255	-9.5%	2,601	2,895	242	252	0	0	103	109
Pacific Contiguous	32,068	32,252	-0.6%	21,075	21,915	9,409	8,812	242	254	1,342	1,270
California	15,566	16,750	-7.1%	6,156	7,754	8,006	7,630	233	244	1,171	1,122
Oregon	5,156	4,914	4.9%	4,213	4,230	890	638	7	7	46	40
Washington	11,346	10,588	7.2%	10,705	9,932	512	544	3	3	125	109
Pacific Noncontiguous	1,336	1,272	5.1%	903	799	338	376	61	66	34	31
Alaska	504	437	15.2%	442	383	21	18	NM	NM	7	6
Hawaii	833	835	-0.2%	461	417	317	358	28	35	27	26
U.S. Total	339,056	321,645	5.4%	188,726	183,780	137,446	125,140	1,039	1,036	11,845	11,689

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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 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	41,090	39,992	2.7%	1,416	953	38,004	37,363	490	482	1,181	1,193
Connecticut	15,375	13,494	13.9%	39	36	14,983	13,115	145	139	209	204
Maine	4,852	4,636	4.6%	0	0	3,939	3,688	71	83	842	865
Massachusetts	10,741	12,820	-16.2%	223	151	10,182	12,349	219	209	117	111
New Hampshire	6,972	6,390	9.1%	749	371	6,180	5,979	30	27	13	13
Rhode Island	2,203	1,767	24.7%	0	3	2,181	1,742	22	22	0	0
Vermont	947	885	7.0%	405	392	540	491	1	2	0	0
Middle Atlantic	166,259	156,732	6.1%	14,489	13,647	149,055	140,351	912	884	1,803	1,849
New Jersey	30,129	29,499	2.1%	54	47	29,517	28,880	282	270	275	302
New York	51,757	49,267	5.1%	14,372	13,541	36,533	34,888	465	453	387	386
Pennsylvania	84,373	77,965	8.2%	62	58	83,005	76,584	165	162	1,141	1,161
East North Central	244,494	228,948	6.8%	97,767	96,178	141,425	127,422	752	725	4,550	4,622
Illinois	75,886	72,438	4.8%	2,079	2,140	72,462	68,994	157	142	1,187	1,163
Indiana	44,561	38,682	15.2%	34,210	32,703	8,461	3,936	107	99	1,784	1,945
Michigan	47,434	45,708	3.8%	31,501	33,534	14,989	11,304	345	327	599	544
Ohio	49,996	48,254	3.6%	9,484	9,430	40,131	38,423	95	102	287	299
Wisconsin	26,618	23,864	11.5%	20,495	18,371	5,383	4,766	47	55	693	672
West North Central	145,343	136,570	6.4%	115,527	109,137	27,732	25,521	260	249	1,824	1,664
Iowa	25,752	22,745	13.2%	18,972	16,271	5,821	5,633	99	85	860	755
Kansas	20,866	20,063	4.0%	12,873	12,426	7,950	7,616	NM	NM	37	15
Minnesota	26,465	23,271	13.7%	20,125	17,648	5,589	4,867	80	78	671	679
Missouri	34,425	34,774	-1.0%	32,117	33,393	2,220	1,288	66	70	22	23
Nebraska	15,140	14,173	6.8%	12,669	11,663	2,303	2,364	8	9	160	137
North Dakota	17,696	16,783	5.4%	14,700	14,012	2,920	2,715	0	0	75	55
South Dakota	4,998	4,761	5.0%	4,071	3,724	927	1,037	NM	NM	0	0
South Atlantic	319,502	309,494	3.2%	259,923	258,373	51,180	42,601	556	510	7,843	8,010
Delaware	2,607	2,934	-11.2%	10	4	2,253	2,354	3	3	341	573
District of Columbia	37	33	12.7%	0	0	20	21	17	11	0	0
Florida	92,107	91,618	0.5%	85,157	84,169	4,738	5,217	32	33	2,180	2,198
Georgia	49,850	49,341	1.0%	41,533	41,820	6,109	5,410	5	NM	2,203	2,109
Maryland	17,969	12,690	41.6%	1,286	4	16,307	12,371	254	199	122	115
North Carolina	53,102	50,304	5.6%	46,591	44,739	5,587	4,722	81	81	844	762
South Carolina	38,761	37,180	4.3%	36,519	35,245	1,415	1,092	1	1	826	842
Virginia	38,153	36,535	4.4%	29,220	30,041	7,796	5,342	164	180	973	972
West Virginia	26,916	28,860	-6.7%	19,608	22,352	6,954	6,072	0	0	355	437
East South Central	144,295	136,395	5.8%	122,596	117,587	17,966	15,071	86	77	3,647	3,661
Alabama	56,421	54,488	3.5%	40,511	40,678	14,140	12,042	0	0	1,770	1,768
Kentucky	29,586	29,007	2.0%	29,029	28,646	327	116	0	0	230	244
Mississippi	25,825	23,533	9.7%	21,683	19,937	3,366	2,812	6	3	770	781
Tennessee	32,463	29,368	10.5%	31,373	28,325	132	101	80	74	877	868
West South Central	281,914	259,020	8.8%	88,263	79,265	163,093	148,853	304	350	30,254	30,552
Arkansas	26,096	22,321	16.9%	18,033	16,680	7,312	4,937	2	3	749	700
Louisiana	38,761	37,243	4.1%	23,020	20,291	3,658	4,484	61	59	12,022	12,409
Oklahoma	34,816	29,061	19.8%	15,110	14,164	19,328	14,576	0	0	379	321
Texas	182,240	170,395	7.0%	32,100	28,129	132,795	124,855	241	288	17,104	17,122
Mountain	137,457	136,540	0.7%	104,754	106,380	31,168	28,698	234	228	1,302	1,234
Arizona	39,493	37,182	6.2%	35,382	33,195	4,042	3,923	69	64	0	0
Colorado	21,902	21,820	0.4%	16,083	16,237	5,774	5,539	13	13	32	31
Idaho	7,211	7,132	1.1%	4,650	4,744	2,286	2,128	20	21	255	238
Montana	12,298	11,848	3.8%	5,564	5,483	6,722	6,352	0	0	11	13
Nevada	14,075	13,593	3.5%	9,340	9,239	4,566	4,213	53	48	116	92
New Mexico	11,238	13,515	-16.8%	6,323	9,891	4,868	3,579	43	45	4	1
Utah	13,257	13,340	-0.6%	11,460	11,468	1,514	1,575	36	36	247	260
Wyoming	17,984	18,110	-0.7%	15,952	16,122	1,396	1,389	0	0	637	599
Pacific Contiguous	153,952	157,414	-2.2%	99,140	106,390	47,136	43,586	1,191	1,212	6,484	6,227
California	72,206	79,953	-9.7%	28,534	38,115	36,959	35,284	1,141	1,164	5,572	5,390
Oregon	27,613	25,607	7.8%	21,397	20,789	5,923	4,544	33	31	259	243
Washington	54,134	51,855	4.4%	49,209	47,486	4,254	3,758	18	17	654	594
Pacific Noncontiguous	6,568	6,398	2.6%	4,450	4,276	1,640	1,644	316	309	162	169
Alaska	2,630	2,387	10.2%	2,311	2,089	110	95	166	155	43	48
Hawaii	3,938	4,012	-1.8%	2,139	2,187	1,531	1,548	150	154	119	121
U.S. Total	1,640,873	1,567,503	4.7%	908,324	892,187	668,398	611,108	5,100	5,028	59,051	59,180

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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, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	4	63	-93.1%	2	4	1	57	0	0	NM	NM
Connecticut	-2	2	-190.8%	0	0	-2	2	0	0	0	0
Maine	5	NM	NM	0	0	4	3	0	0	NM	NM
Massachusetts	0	52	-100.0%	0	0	0	52	0	0	0	0
New Hampshire	2	4	-64.6%	2	4	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	3,222	4,203	-23.4%	0	0	3,201	4,158	0	0	21	45
New Jersey	54	82	-33.3%	0	0	54	82	0	0	0	0
New York	2	81	-98.0%	0	0	2	57	0	0	0	24
Pennsylvania	3,166	4,041	-21.7%	0	0	3,144	4,020	0	0	21	21
East North Central	19,435	20,337	-4.4%	11,793	12,546	7,456	7,623	6	NM	180	165
Illinois	4,565	4,034	13.2%	311	324	4,114	3,581	2	NM	137	128
Indiana	5,508	4,856	13.4%	5,211	4,756	294	98	4	2	0	0
Michigan	3,119	3,944	-20.9%	3,064	3,898	40	41	0	0	15	NM
Ohio	3,937	5,259	-25.1%	929	1,355	3,008	3,903	0	0	NM	NM
Wisconsin	2,307	2,244	2.8%	2,279	2,213	0	0	0	0	27	31
West North Central	14,446	14,157	2.0%	14,219	13,932	0	0	5	6	221	219
Iowa	2,336	2,239	4.3%	2,187	2,083	0	0	5	6	144	150
Kansas	1,685	1,213	39.0%	1,685	1,213	0	0	0	0	0	0
Minnesota	1,639	1,604	2.2%	1,602	1,571	0	0	0	0	37	32
Missouri	4,984	5,783	-13.8%	4,984	5,783	0	0	0	0	0	0
Nebraska	1,696	1,311	29.4%	1,665	1,282	0	0	0	0	32	29
North Dakota	1,865	1,821	2.4%	1,856	1,814	0	0	0	0	NM	NM
South Dakota	241	187	29.1%	241	187	0	0	0	0	0	0
South Atlantic	15,986	17,667	-9.5%	13,407	15,965	2,526	1,639	1	3	52	60
Delaware	6	10	-34.9%	0	0	6	10	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,567	3,221	-20.3%	2,554	3,207	7	0	0	0	6	14
Georgia	2,286	3,109	-26.5%	2,274	3,095	0	0	0	0	NM	14
Maryland	1,147	741	54.8%	0	0	1,141	737	0	0	6	4
North Carolina	2,650	2,535	4.5%	2,628	2,511	9	6	1	2	12	16
South Carolina	1,625	1,681	-3.3%	1,624	1,680	0	0	0	0	1	1
Virginia	791	895	-11.7%	689	848	86	35	0	1	15	11
West Virginia	4,915	5,475	-10.2%	3,638	4,624	1,276	852	0	0	0	0
East South Central	9,538	10,220	-6.7%	9,182	9,894	290	266	0	0	67	60
Alabama	2,534	2,531	0.1%	2,529	2,529	0	0	0	0	5	NM
Kentucky	4,705	4,921	-4.4%	4,705	4,921	0	0	0	0	0	0
Mississippi	564	401	40.5%	274	135	290	266	0	0	0	0
Tennessee	1,736	2,367	-26.7%	1,674	2,309	0	0	0	0	62	58
West South Central	13,017	15,101	-13.8%	6,738	6,784	6,255	8,289	0	0	25	28
Arkansas	2,075	1,551	33.8%	1,619	1,467	452	81	0	0	4	3
Louisiana	884	1,210	-27.0%	547	766	336	444	0	0	0	0
Oklahoma	1,032	970	6.3%	899	819	112	127	0	0	21	25
Texas	9,027	11,370	-20.6%	3,672	3,732	5,355	7,638	0	0	0	0
Mountain	9,598	10,945	-12.3%	8,778	10,042	784	862	0	0	37	41
Arizona	2,141	2,250	-4.8%	2,141	2,250	0	0	0	0	0	0
Colorado	1,765	2,215	-20.3%	1,763	2,215	0	0	0	0	1	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	629	727	-13.6%	5	20	624	707	0	0	0	0
Nevada	100	70	42.5%	42	0	58	71	0	0	0	0
New Mexico	872	1,070	-18.5%	872	1,070	0	0	0	0	0	0
Utah	1,673	1,949	-14.2%	1,634	1,898	39	39	0	0	0	13
Wyoming	2,416	2,661	-9.2%	2,320	2,590	63	45	0	0	33	26
Pacific Contiguous	25	18	43.1%	0	0	0	0	0	0	25	18
California	24	14	69.0%	0	0	0	0	0	0	24	14
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	3	-77.1%	0	0	0	0	0	0	1	3
Pacific Noncontiguous	131	169	-22.6%	NM	NM	99	140	NM	NM	0	0
Alaska	NM	NM	NM	NM	NM	NM	13	NM	NM	0	0
Hawaii	82	128	-35.8%	0	0	82	128	0	0	0	0
U.S. Total	85,403	92,881	-8.1%	64,142	69,189	20,611	23,035	20	19	630	637

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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 May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	712	1,358	-47.6%	447	106	256	1,244	0	0	NM	NM
Connecticut	228	78	190.4%	0	0	228	78	0	0	0	0
Maine	36	37	-2.0%	0	0	28	29	0	0	NM	NM
Massachusetts	0	1,136	-100.0%	0	0	0	1,136	0	0	0	0
New Hampshire	447	106	321.8%	447	106	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	19,770	20,270	-2.5%	0	0	19,645	20,018	0	0	125	251
New Jersey	528	493	7.0%	0	0	528	493	0	0	0	0
New York	386	398	-3.0%	0	0	375	268	0	0	11	130
Pennsylvania	18,856	19,379	-2.7%	0	0	18,742	19,257	0	0	114	121
East North Central	108,865	111,361	-2.2%	65,789	66,241	42,052	44,167	31	22	992	931
Illinois	24,046	22,712	5.9%	1,555	1,731	21,732	20,247	15	15	744	719
Indiana	30,832	27,855	10.7%	29,266	26,982	1,550	866	16	7	0	0
Michigan	16,294	17,888	-8.9%	16,062	17,673	188	195	0	0	45	20
Ohio	24,574	29,586	-16.9%	5,985	6,721	18,584	22,859	0	0	5	NM
Wisconsin	13,119	13,320	-1.5%	12,921	13,134	0	0	0	0	199	186
West North Central	73,462	71,152	3.2%	72,302	70,055	0	1	37	52	1,123	1,045
Iowa	10,219	9,294	10.0%	9,527	8,650	0	0	31	36	660	608
Kansas	7,621	6,534	16.6%	7,621	6,534	0	0	0	0	0	0
Minnesota	9,072	8,700	4.3%	8,814	8,436	0	0	1	1	258	263
Missouri	25,213	27,391	-8.0%	25,208	27,376	0	1	5	15	0	0
Nebraska	8,893	7,865	13.1%	8,733	7,729	0	0	0	0	160	137
North Dakota	11,356	10,554	7.6%	11,311	10,516	0	0	0	0	45	38
South Dakota	1,088	814	33.6%	1,088	814	0	0	0	0	0	0
South Atlantic	76,458	81,868	-6.6%	64,727	73,710	11,390	7,806	21	28	321	324
Delaware	89	74	19.5%	0	0	89	74	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	11,152	15,614	-28.6%	11,099	15,557	7	0	0	0	46	57
Georgia	10,744	12,208	-12.0%	10,667	12,144	0	0	0	0	77	64
Maryland	5,305	2,501	112.2%	0	0	5,271	2,470	0	0	34	31
North Carolina	13,061	12,461	4.8%	12,939	12,315	39	44	16	20	67	82
South Carolina	7,110	7,490	-5.1%	7,100	7,481	0	0	0	0	11	10
Virginia	4,216	4,581	-8.0%	3,830	4,320	296	172	5	8	85	81
West Virginia	24,780	26,938	-8.0%	19,092	21,892	5,689	5,047	0	0	0	0
East South Central	45,299	47,395	-4.4%	43,868	45,961	1,111	1,119	0	0	320	315
Alabama	13,166	12,246	7.5%	13,140	12,228	0	0	0	0	26	18
Kentucky	21,540	23,474	-8.2%	21,540	23,474	0	0	0	0	0	0
Mississippi	1,777	1,931	-8.0%	666	813	1,111	1,119	0	0	0	0
Tennessee	8,816	9,744	-9.5%	8,522	9,447	0	0	0	0	295	297
West South Central	59,440	69,623	-14.6%	32,122	33,750	27,195	35,723	0	0	122	149
Arkansas	9,938	9,330	6.5%	7,964	8,659	1,952	652	0	0	21	20
Louisiana	3,823	4,765	-19.8%	2,385	2,628	1,437	2,137	0	0	0	0
Oklahoma	5,734	6,228	-7.9%	5,076	5,556	557	542	0	0	101	130
Texas	39,945	49,299	-19.0%	16,696	16,907	23,249	32,392	0	0	0	0
Mountain	54,695	60,957	-10.3%	48,322	54,942	6,189	5,847	0	0	185	168
Arizona	11,480	11,514	-0.3%	11,480	11,514	0	0	0	0	0	0
Colorado	9,775	11,655	-16.1%	9,768	11,651	0	0	0	0	6	4
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	5,485	5,137	6.8%	71	116	5,412	5,019	0	0	2	2
Nevada	359	623	-42.3%	29	241	330	382	0	0	0	0
New Mexico	3,842	7,702	-50.1%	3,842	7,702	0	0	0	0	0	0
Utah	8,847	9,283	-4.7%	8,679	9,111	167	159	0	0	0	13
Wyoming	14,896	15,032	-0.9%	14,452	14,607	279	287	0	0	165	138
Pacific Contiguous	848	1,488	-43.0%	0	554	718	810	0	0	130	124
California	121	112	7.9%	0	0	0	0	0	0	121	112
Oregon	0	554	-100.0%	0	554	0	0	0	0	0	0
Washington	727	822	-11.5%	0	0	718	810	0	0	9	12
Pacific Noncontiguous	780	744	4.9%	115	111	616	591	49	42	0	0
Alaska	247	221	11.8%	115	111	83	68	49	42	0	0
Hawaii	533	523	2.0%	0	0	533	523	0	0	0	0
U.S. Total	440,329	466,215	-5.6%	327,692	345,429	109,171	117,325	139	143	3,327	3,318

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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, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	14	35	-58.7%	NM	8	NM	24	NM	2	1	1
Connecticut	NM	3	NM	NM	0	NM	2	NM	NM	0	0
Maine	2	NM	NM	0	0	NM	NM	0	0	1	NM
Massachusetts	NM	24	NM	NM	2	NM	21	NM	NM	0	1
New Hampshire	NM	5	NM	NM	5	NM	NM	1	1	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	NM	1	NM	NM	1	0	0	0	0	0	0
Middle Atlantic	73	39	88.7%	NM	11	56	24	NM	NM	3	3
New Jersey	18	NM	NM	0	NM	18	NM	0	0	0	0
New York	47	20	133.9%	NM	11	30	6	NM	NM	3	3
Pennsylvania	8	18	-53.1%	0	0	7	17	0	0	NM	NM
East North Central	51	51	0.8%	27	31	21	19	1	NM	2	1
Illinois	5	5	-11.5%	NM	1	4	5	NM	NM	0	0
Indiana	13	13	0.9%	11	12	0	0	0	0	1	1
Michigan	10	10	-2.9%	9	10	0	0	1	0	NM	NM
Ohio	21	18	15.1%	NM	4	17	14	0	0	0	0
Wisconsin	2	4	-42.4%	2	4	0	0	0	0	NM	NM
West North Central	38	45	-14.6%	37	44	NM	NM	0	0	0	0
Iowa	18	24	-23.1%	18	23	0	0	0	0	0	0
Kansas	4	9	-54.2%	4	9	0	0	0	0	0	0
Minnesota	4	3	40.6%	3	2	NM	NM	0	0	0	0
Missouri	6	5	19.5%	6	5	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	5	4	28.8%	5	4	0	0	0	0	0	0
South Dakota	1	NM	NM	1	NM	0	0	NM	NM	0	0
South Atlantic	154	162	-4.8%	127	134	17	19	4	3	NM	NM
Delaware	NM	NM	NM	0	0	NM	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	43	47	-7.9%	41	45	0	0	0	0	NM	NM
Georgia	10	13	-22.3%	7	10	NM	NM	0	0	NM	NM
Maryland	7	11	-31.0%	0	0	7	10	0	0	0	0
North Carolina	20	19	6.4%	19	18	NM	NM	0	0	NM	NM
South Carolina	10	7	48.1%	9	6	0	0	0	0	1	0
Virginia	47	52	-9.9%	37	44	6	4	4	3	NM	NM
West Virginia	15	11	32.5%	14	11	1	0	0	0	0	0
East South Central	18	26	-29.7%	17	23	0	0	0	0	NM	NM
Alabama	NM	4	NM	0	2	NM	0	0	0	NM	NM
Kentucky	7	9	-20.6%	7	9	0	0	0	0	0	0
Mississippi	1	2	-57.4%	1	1	0	0	0	0	0	1
Tennessee	9	11	-19.6%	9	11	0	0	0	0	0	0
West South Central	13	18	-27.1%	10	8	2	10	0	0	1	0
Arkansas	3	7	-59.3%	3	3	0	4	0	0	0	0
Louisiana	1	NM	NM	1	NM	0	0	0	0	0	0
Oklahoma	1	0	476.6%	1	0	0	0	0	0	0	0
Texas	7	10	-25.7%	5	4	2	5	0	0	0	0
Mountain	15	23	-33.7%	13	21	2	2	0	0	0	0
Arizona	4	4	17.1%	4	4	0	0	0	0	0	0
Colorado	1	1	-35.1%	1	1	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	1	103.8%	NM	NM	2	1	0	0	0	0
Nevada	2	1	192.0%	1	0	0	1	0	0	0	0
New Mexico	1	3	-58.5%	1	3	0	0	0	0	0	0
Utah	3	5	-42.6%	3	5	0	0	0	0	0	0
Wyoming	2	8	-74.1%	2	8	0	0	0	0	0	0
Pacific Contiguous	7	5	59.7%	3	3	1	1	0	0	4	NM
California	6	3	91.2%	3	3	0	1	0	0	3	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	NM	1	NM	NM	NM	NM	0	0	0	NM	NM
Pacific Noncontiguous	641	600	6.9%	491	448	131	132	0	1	19	19
Alaska	55	59	-6.6%	53	56	0	0	NM	0	2	2
Hawaii	586	541	8.3%	438	392	131	132	0	0	17	17
U.S. Total	1,026	1,002	2.4%	742	730	239	229	8	7	37	35

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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 May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	970	135	618.1%	144	19	788	90	NM	22	NM	4
Connecticut	207	14	NM	NM	3	201	10	NM	1	1	0
Maine	162	17	828.2%	0	0	152	13	1	1	NM	3
Massachusetts	392	78	401.8%	52	3	325	63	NM	11	1	1
New Hampshire	153	16	837.3%	85	9	59	NM	9	7	0	0
Rhode Island	NM	NM	NM	0	3	NM	NM	1	2	0	0
Vermont	NM	2	NM	NM	2	0	0	0	0	0	0
Middle Atlantic	2,059	262	687.3%	622	79	1,397	155	NM	NM	NM	22
New Jersey	235	21	NM	1	NM	228	21	5	0	1	0
New York	1,419	154	821.4%	620	79	773	51	NM	NM	NM	21
Pennsylvania	405	86	369.1%	2	0	397	83	2	1	NM	NM
East North Central	282	200	40.5%	150	122	116	70	NM	1	11	7
Illinois	28	25	9.4%	NM	3	21	22	NM	NM	0	0
Indiana	54	48	12.4%	45	44	0	0	0	0	8	4
Michigan	55	36	52.9%	52	34	0	0	2	1	1	1
Ohio	132	78	70.4%	37	28	94	48	0	0	2	1
Wisconsin	12	13	-6.6%	11	13	1	0	NM	0	NM	NM
West North Central	217	205	6.2%	205	202	NM	NM	1	1	0	1
Iowa	108	112	-3.7%	107	112	NM	0	0	0	0	0
Kansas	NM	27	NM	NM	27	0	0	0	0	0	0
Minnesota	NM	14	NM	11	12	NM	NM	1	0	0	1
Missouri	40	26	55.8%	40	26	0	0	0	0	0	0
Nebraska	NM	3	NM	NM	3	0	0	0	0	0	0
North Dakota	15	20	-28.7%	15	20	0	0	0	0	0	0
South Dakota	NM	2	NM	NM	2	0	0	NM	NM	0	0
South Atlantic	1,931	712	171.2%	1,253	566	615	111	20	10	43	25
Delaware	135	13	924.9%	6	0	129	13	0	0	0	0
District of Columbia	NM	0	--	0	0	0	0	NM	0	0	0
Florida	276	256	7.5%	251	249	NM	1	0	0	NM	NM
Georgia	NM	44	NM	NM	27	NM	NM	3	1	NM	8
Maryland	224	39	475.5%	3	1	218	37	1	0	2	1
North Carolina	347	99	248.9%	322	90	NM	6	0	0	NM	3
South Carolina	200	39	412.4%	NM	34	38	1	0	0	6	4
Virginia	548	167	228.5%	405	111	124	45	16	9	NM	NM
West Virginia	78	54	45.2%	69	54	10	0	0	0	0	0
East South Central	136	104	30.7%	100	95	25	2	0	0	11	7
Alabama	46	19	145.8%	NM	12	25	2	0	0	NM	NM
Kentucky	37	44	-15.3%	37	44	0	0	0	0	0	0
Mississippi	NM	4	NM	NM	3	0	0	0	0	3	1
Tennessee	44	37	19.1%	43	36	0	0	0	0	1	1
West South Central	NM	64	NM	NM	29	NM	34	0	0	4	1
Arkansas	NM	22	NM	NM	7	3	15	0	0	2	1
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	7	5	41.1%	7	5	0	0	0	0	0	0
Texas	NM	34	NM	NM	15	NM	19	0	0	1	0
Mountain	73	100	-26.4%	67	91	6	9	0	0	0	0
Arizona	24	23	3.8%	24	23	0	0	0	0	0	0
Colorado	5	3	38.9%	5	3	0	0	0	0	0	0
Idaho	0	0	-60.0%	0	0	0	0	0	0	0	0
Montana	5	7	-30.0%	NM	NM	5	6	0	0	0	0
Nevada	2	2	47.4%	1	0	1	2	0	0	0	0
New Mexico	7	21	-64.6%	7	21	0	0	0	0	0	0
Utah	17	21	-19.3%	16	20	1	1	0	0	0	0
Wyoming	13	23	-42.3%	13	23	0	0	0	0	0	0
Pacific Contiguous	29	34	-14.8%	13	18	2	6	0	0	13	10
California	24	21	13.6%	13	13	1	2	0	0	10	6
Oregon	0	3	-100.0%	0	3	0	0	0	0	0	0
Washington	4	9	-52.4%	NM	2	NM	4	0	0	3	4
Pacific Noncontiguous	2,949	3,110	-5.2%	2,345	2,451	500	552	4	5	99	103
Alaska	344	401	-14.3%	322	378	0	0	3	3	19	20
Hawaii	2,605	2,709	-3.9%	2,023	2,073	500	552	1	1	81	83
U.S. Total	8,722	4,926	77.1%	4,959	3,671	3,474	1,030	71	45	218	180

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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, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	2	3	-29.5%	0	0	0	0	0	0	2	3
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	94	107	-11.9%	75	91	NM	6	0	0	6	10
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	71	94	-24.4%	67	84	0	0	0	0	4	10
Ohio	NM	6	NM	0	0	NM	6	0	0	2	0
Wisconsin	8	6	26.7%	8	6	0	0	0	0	0	0
West North Central	7	2	374.0%	0	0	0	0	0	0	7	1
Iowa	7	2	374.0%	0	0	0	0	0	0	7	1
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	84	63	34.4%	77	40	0	0	0	0	NM	NM
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	77	40	92.9%	77	40	0	0	0	0	0	0
Georgia	NM	NM	NM	0	0	0	0	0	0	NM	NM
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	65	-100.0%	0	65	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	65	-100.0%	0	65	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	210	491	-57.3%	184	459	0	0	0	0	25	32
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	202	480	-58.0%	184	459	0	0	0	0	17	21
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	8	NM	NM	0	0	0	0	0	0	8	NM
Mountain	23	35	-33.2%	0	0	23	35	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	23	35	-33.2%	0	0	23	35	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	424	772	-45.1%	336	654	36	41	0	0	52	76

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

by State, by Sector, Year-to-Date through May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 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	44	62	-27.9%	0	0	0	0	0	0	44	62
New Jersey	16	31	-48.6%	0	0	0	0	0	0	16	31
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	611	661	-7.6%	463	355	124	262	0	0	24	44
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	447	382	17.0%	426	337	0	0	0	0	20	44
Ohio	128	262	-51.3%	0	0	124	262	0	0	3	0
Wisconsin	36	18	107.7%	36	18	0	0	0	0	0	0
West North Central	39	19	104.9%	0	0	0	0	4	3	36	16
Iowa	39	19	104.9%	0	0	0	0	4	3	36	16
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	627	318	97.2%	549	260	0	0	0	0	77	NM
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	549	260	111.2%	549	260	0	0	0	0	0	0
Georgia	77	NM	NM	0	0	0	0	0	0	77	NM
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	315	-100.0%	0	315	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	315	-100.0%	0	315	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1,731	1,939	-10.7%	1,637	1,802	0	0	0	0	94	136
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,703	1,895	-10.1%	1,637	1,802	0	0	0	0	65	92
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	29	44	-34.5%	0	0	0	0	0	0	29	44
Mountain	180	175	3.0%	0	0	180	175	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	180	175	3.0%	0	0	180	175	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	3,232	3,487	-7.3%	2,649	2,732	304	436	4	3	275	316

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	3,147	3,463	-9.1%	NM	30	2,977	3,284	58	56	94	93
Connecticut	1,235	938	31.7%	3	3	1,167	874	NM	NM	44	42
Maine	200	149	33.9%	0	0	170	118	3	2	27	29
Massachusetts	1,139	1,731	-34.2%	NM	NM	1,074	1,671	NM	NM	20	20
New Hampshire	115	232	-50.3%	0	16	112	213	1	1	3	3
Rhode Island	457	413	10.9%	0	0	454	409	NM	4	0	0
Vermont	0	0	-99.4%	0	0	0	0	0	0	0	0
Middle Atlantic	11,818	10,169	16.2%	808	647	10,764	9,313	72	69	175	139
New Jersey	2,842	2,913	-2.4%	NM	NM	2,791	2,859	14	11	19	23
New York	3,851	3,478	10.7%	790	628	2,953	2,772	49	48	59	30
Pennsylvania	5,126	3,778	35.7%	1	0	5,019	3,682	9	9	96	87
East North Central	10,370	6,467	60.3%	3,763	2,330	6,235	3,825	111	106	261	206
Illinois	1,345	947	41.9%	218	NM	1,052	803	22	25	52	37
Indiana	1,983	910	118.0%	936	759	904	36	17	18	126	97
Michigan	2,877	1,930	49.1%	871	475	1,923	1,378	42	42	40	35
Ohio	3,028	1,995	51.8%	684	444	2,302	1,523	25	16	16	12
Wisconsin	1,138	686	65.9%	1,053	570	54	86	5	5	27	24
West North Central	3,203	1,198	167.4%	2,747	968	384	163	29	23	44	44
Iowa	775	198	292.3%	738	163	NM	NM	9	7	28	28
Kansas	561	174	223.5%	558	172	0	0	0	0	NM	NM
Minnesota	814	398	104.4%	673	320	126	60	8	8	8	10
Missouri	713	283	151.8%	440	168	258	NM	12	8	3	4
Nebraska	157	48	228.8%	157	48	0	0	0	0	0	0
North Dakota	NM	51	NM	NM	51	0	0	0	0	1	0
South Dakota	108	46	132.9%	108	46	0	0	0	0	0	0
South Atlantic	29,537	28,105	5.1%	23,599	22,829	5,520	4,855	79	43	338	378
Delaware	468	684	-31.6%	1	1	422	618	0	0	46	66
District of Columbia	-1	1	-184.9%	0	0	0	0	-1	1	0	0
Florida	14,189	14,732	-3.7%	13,335	13,715	717	893	2	3	135	121
Georgia	4,832	4,263	13.4%	3,378	3,278	1,401	924	0	0	53	61
Maryland	1,271	448	183.5%	312	0	874	404	77	37	8	7
North Carolina	3,315	3,043	9.0%	2,739	2,567	563	464	1	1	13	NM
South Carolina	1,424	1,582	-10.0%	1,232	1,285	182	288	0	0	10	10
Virginia	3,914	3,263	20.0%	2,585	1,964	1,269	1,237	1	0	59	62
West Virginia	124	89	39.0%	17	20	92	NM	0	0	14	42
East South Central	11,713	9,394	24.7%	7,684	6,243	3,821	2,942	NM	NM	193	195
Alabama	5,297	4,117	28.7%	1,958	1,478	3,236	2,548	0	0	103	91
Kentucky	1,235	720	71.5%	1,188	676	38	23	0	0	NM	21
Mississippi	4,543	4,127	10.1%	3,962	3,722	545	370	0	0	35	35
Tennessee	637	430	48.2%	575	367	1	2	NM	NM	47	48
West South Central	32,576	25,307	28.7%	10,749	7,479	16,485	12,563	57	73	5,285	5,192
Arkansas	1,845	1,740	6.1%	862	546	959	1,173	0	0	24	21
Louisiana	5,567	4,969	12.1%	3,044	2,571	566	371	11	NM	1,946	2,017
Oklahoma	4,502	2,482	81.4%	2,695	1,574	1,780	898	0	0	27	10
Texas	20,661	16,117	28.2%	4,147	2,788	13,180	10,121	46	64	3,288	3,144
Mountain	7,745	6,670	16.1%	6,077	4,962	1,534	1,548	32	33	102	126
Arizona	2,644	2,539	4.1%	1,808	1,688	822	840	13	12	0	0
Colorado	1,408	864	63.0%	1,239	716	167	146	0	0	2	2
Idaho	139	144	-3.4%	NM	77	NM	55	3	3	NM	NM
Montana	NM	29	NM	NM	25	NM	4	0	0	0	0
Nevada	1,907	1,905	0.1%	1,694	1,685	192	193	6	4	15	23
New Mexico	990	770	28.7%	716	469	268	291	NM	9	0	0
Utah	554	355	56.1%	507	296	6	18	4	5	37	36
Wyoming	64	63	1.9%	NM	NM	0	1	0	0	40	57
Pacific Contiguous	5,350	5,880	-9.0%	1,759	2,345	2,552	2,494	157	166	881	876
California	4,515	5,245	-13.9%	1,253	1,923	2,239	2,293	152	160	870	868
Oregon	403	253	59.0%	205	198	188	48	4	4	NM	NM
Washington	431	382	12.9%	301	224	124	153	1	2	NM	NM
Pacific Noncontiguous	183	124	46.7%	178	121	0	0	0	0	5	3
Alaska	183	124	46.7%	178	121	0	0	0	0	5	3
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	115,639	96,777	19.5%	57,381	47,955	50,272	40,987	609	583	7,378	7,252

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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 May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	17,083	17,963	-4.9%	74	65	16,181	17,076	355	343	474	478
Connecticut	6,721	5,854	14.8%	16	18	6,353	5,494	143	138	208	204
Maine	791	775	2.1%	0	0	638	609	12	11	142	155
Massachusetts	7,200	8,512	-15.4%	NM	NM	6,853	8,204	179	172	111	106
New Hampshire	396	1,219	-67.5%	1	16	379	1,185	3	5	13	13
Rhode Island	1,974	1,602	23.3%	0	0	1,957	1,585	17	17	0	0
Vermont	1	1	-20.2%	0	0	0	0	0	0	0	0
Middle Atlantic	57,998	52,604	10.3%	3,590	3,616	53,062	47,829	418	410	928	750
New Jersey	14,032	14,047	-0.1%	NM	75	13,737	13,750	73	78	157	144
New York	17,268	17,865	-3.3%	3,520	3,539	13,222	13,931	282	275	243	120
Pennsylvania	26,699	20,692	29.0%	5	1	26,103	20,148	62	57	529	486
East North Central	50,159	35,092	42.9%	17,769	14,320	30,485	19,034	566	546	1,339	1,192
Illinois	5,353	5,026	6.5%	484	373	4,459	4,271	137	125	274	258
Indiana	9,363	6,753	38.6%	4,515	5,309	4,165	862	73	75	609	507
Michigan	13,280	9,444	40.6%	3,904	2,772	8,904	6,252	245	219	228	201
Ohio	16,134	9,978	61.7%	3,298	2,519	12,658	7,280	89	96	89	83
Wisconsin	6,029	3,890	55.0%	5,568	3,348	300	369	22	30	139	144
West North Central	11,463	5,667	102.3%	9,789	4,601	1,275	762	128	99	271	205
Iowa	2,727	824	230.7%	2,532	685	NM	NM	42	27	153	112
Kansas	1,423	719	97.8%	1,389	707	0	0	0	0	35	13
Minnesota	3,692	2,067	78.6%	3,137	1,674	454	295	42	41	58	57
Missouri	2,631	1,387	89.7%	1,748	869	821	467	42	30	20	21
Nebraska	305	179	70.4%	302	178	0	0	2	1	0	0
North Dakota	378	287	31.7%	373	285	0	0	0	0	4	2
South Dakota	308	204	50.9%	308	204	0	0	0	0	0	0
South Atlantic	132,714	123,711	7.3%	108,244	102,114	22,505	19,523	272	220	1,693	1,853
Delaware	2,250	2,601	-13.5%	1	1	1,994	2,228	0	0	255	371
District of Columbia	12	11	1.3%	0	0	0	0	12	11	0	0
Florida	63,066	60,133	4.9%	59,662	56,222	2,773	3,295	9	12	621	604
Georgia	20,711	20,074	3.2%	15,526	15,412	4,927	4,397	0	0	257	264
Maryland	4,641	2,214	109.6%	1,279	0	3,080	1,987	242	190	39	37
North Carolina	16,238	15,407	5.4%	14,129	13,348	2,042	2,008	3	4	64	47
South Carolina	6,190	6,210	-0.3%	5,179	5,275	953	878	0	0	57	56
Virginia	19,157	16,700	14.7%	12,373	11,797	6,491	4,620	7	3	285	280
West Virginia	451	360	25.2%	94	58	243	109	0	0	114	194
East South Central	53,149	44,112	20.5%	35,805	29,430	16,308	13,660	83	75	952	947
Alabama	22,122	19,133	15.6%	7,786	6,805	13,869	11,861	0	0	467	467
Kentucky	6,001	3,144	90.9%	5,598	2,931	319	108	0	0	84	104
Mississippi	20,936	17,884	17.1%	18,639	16,020	2,113	1,686	6	3	178	176
Tennessee	4,090	3,950	3.5%	3,781	3,674	7	5	78	72	224	200
West South Central	132,491	108,991	21.6%	37,874	29,605	68,180	52,772	261	312	26,177	26,302
Arkansas	8,234	6,381	29.0%	2,891	2,062	5,208	4,197	0	0	134	123
Louisiana	23,819	22,481	6.0%	12,287	10,565	1,666	1,803	61	59	9,806	10,053
Oklahoma	14,398	10,218	40.9%	8,153	6,650	6,107	3,481	0	0	138	87
Texas	86,040	69,911	23.1%	14,543	10,328	55,199	43,291	200	252	16,099	16,039
Mountain	32,542	27,709	17.4%	26,034	21,697	5,706	5,214	175	171	627	628
Arizona	9,344	7,208	29.6%	7,338	5,269	1,947	1,884	60	55	0	0
Colorado	6,212	4,354	42.7%	5,372	3,664	833	683	0	0	8	8
Idaho	719	886	-18.9%	225	472	425	339	17	17	52	58
Montana	156	151	3.0%	136	122	18	27	0	0	1	2
Nevada	9,382	9,303	0.8%	8,407	8,361	834	827	26	24	115	91
New Mexico	3,885	3,371	15.2%	2,246	1,950	1,594	1,377	42	44	4	1
Utah	2,505	2,126	17.8%	2,243	1,827	55	78	31	31	176	190
Wyoming	340	310	9.7%	67	31	1	1	0	0	272	278
Pacific Contiguous	36,799	33,504	9.8%	14,334	12,976	17,387	15,490	780	788	4,298	4,249
California	29,128	27,705	5.1%	10,602	10,005	13,563	12,764	750	761	4,213	4,175
Oregon	4,658	3,138	48.4%	2,117	1,291	2,486	1,796	20	17	35	34
Washington	3,013	2,661	13.2%	1,615	1,680	1,338	931	10	10	49	41
Pacific Noncontiguous	1,046	798	31.1%	1,021	767	0	0	0	2	24	28
Alaska	1,046	798	31.1%	1,021	767	0	0	0	2	24	28
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	525,445	450,150	16.7%	254,535	219,191	231,089	191,360	3,037	2,966	36,784	36,633

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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.C. Utility Scale Facility Net Generation from Natural Gas by Technology: Total (All Sectors), 2008-May 2018 (Thousand Megawatthours)

	Natural Gas					
Period	Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Natural Gas Other	Total
Annual Factors						
2008	693,958	80,144	107,316	1,482	80	882,981
2009	743,901	76,141	99,588	1,332	18	920,979
2010	804,033	85,820	96,332	1,490	22	987,697
2011	828,554	85,392	97,578	2,125	40	1,013,689
2012	1,017,040	98,446	108,285	1,986	138	1,225,894
2013	947,172	91,272	83,746	2,328	317	1,124,836
2014	958,921	90,159	74,100	2,921	508	1,126,609
2015	1,130,617	108,655	89,796	3,760	654	1,333,482
2016	1,152,245	123,429	98,204	3,714	715	1,378,307
2017	1,059,936	118,660	90,116	3,998	155	1,272,864
Year 2016						
January	97,555	7,212	4,933	295	50	110,044
February	86,920	6,841	4,491	253	47	98,552
March	87,256	9,126	7,184	275	49	103,890
April	80,910	9,788	7,843	278	56	98,876
May	92,066	9,681	8,328	301	53	110,430
June	108,301	11,690	10,993	345	66	131,395
July	120,441	15,821	14,812	402	78	151,554
August	124,933	15,905	13,421	421	80	154,760
Sept	104,442	11,340	9,422	333	65	125,603
October	84,780	9,990	7,788	276	65	102,898
November	80,168	8,609	4,859	252	54	93,942
December	84,473	7,426	4,129	282	53	96,364
Year 2017						
January	80,770	6,995	3,399	270	11	91,447
February	69,914	7,083	3,811	222	10	81,040
March	78,456	9,987	5,979	274	11	94,708
April	72,025	7,941	5,960	241	11	86,178
May	80,385	9,092	7,010	277	13	96,777
June	95,327	10,941	9,434	345	15	116,061
July	116,510	14,710	12,973	509	18	144,720
August	115,031	12,692	11,395	476	16	139,610
Sept	95,333	11,438	9,551	393	14	116,728
October	85,990	11,062	9,424	377	14	106,867
November	78,308	8,541	5,421	305	10	92,585
December	91,887	8,176	5,760	310	10	106,144
Year 2018						
January	92,512	10,483	6,267	329	10	109,601
February	84,853	6,702	4,483	270	10	96,317
March	89,343	8,531	5,690	309	10	103,884
April	81,930	11,414	6,328	318	13	100,004
May	92,360	12,833	10,020	409	18	115,639

Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
The 'Natural Gas Other' category consists of power plants with prime movers of Fuel Cells and Other Prime Movers that consume natural gas.
Totals may not equal sum of components because of independent rounding.
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.

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
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	63	NM	0	0	0	0	0	0	NM	63
New Jersey	16	18	-11.7%	0	0	0	0	0	0	16	18
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	44	NM	0	0	0	0	0	0	NM	44
East North Central	389	476	-18.2%	12	6	186	194	0	0	191	275
Illinois	6	21	-70.0%	0	0	0	0	0	0	6	21
Indiana	169	237	-28.9%	1	NM	0	0	0	0	168	236
Michigan	156	152	2.9%	11	5	145	146	0	0	0	0
Ohio	58	66	-12.3%	0	0	NM	48	0	0	17	18
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	1	439.9%	0	0	0	0	0	0	4	1
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	1	439.9%	0	0	0	0	0	0	4	1
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	18	32	-43.2%	0	0	0	0	0	0	18	32
Delaware	16	29	-43.5%	0	0	0	0	0	0	16	29
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	1	20.1%	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	1	3	-51.5%	0	0	0	0	0	0	1	3
East South Central	NM	2	NM	0	0	0	0	0	0	NM	2
Alabama	NM	1	NM	0	0	0	0	0	0	NM	1
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	2	-27.5%	0	0	0	0	0	0	1	2
West South Central	377	414	-9.0%	0	0	139	120	0	0	238	294
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	135	195	-30.8%	0	0	0	0	0	0	135	195
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	242	220	10.4%	0	0	139	120	0	0	103	100
Mountain	25	28	-12.3%	0	0	1	2	0	0	24	27
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	2	-56.6%	0	0	1	2	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	0	10.0%	0	0	0	0	0	0	1	0
Wyoming	23	26	-10.1%	0	0	0	0	0	0	23	26
Pacific Contiguous	178	162	9.8%	0	0	35	25	0	0	143	137
California	143	137	4.5%	0	0	0	0	0	0	143	137
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	35	25	38.7%	0	0	35	25	0	0	0	0
Pacific Noncontiguous	6	5	29.3%	0	0	0	0	0	0	6	5
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	6	5	29.3%	0	0	0	0	0	0	6	5
U.S. Total	1,045	1,182	-11.6%	12	6	361	340	0	0	672	835

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

by State, by Sector, Year-to-Date through May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 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	292	343	-14.9%	0	0	0	0	0	0	292	343
New Jersey	92	94	-2.4%	0	0	0	0	0	0	92	94
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	201	249	-19.6%	0	0	0	0	0	0	201	249
East North Central	2,102	2,456	-14.4%	101	76	852	924	0	0	1,149	1,456
Illinois	58	86	-32.6%	0	0	0	0	0	0	58	86
Indiana	1,038	1,293	-19.7%	NM	NM	0	0	0	0	1,034	1,287
Michigan	728	712	2.3%	97	70	631	642	0	0	0	0
Ohio	277	365	-23.9%	0	0	221	282	0	0	56	83
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	21	13	52.8%	0	0	0	0	0	0	21	13
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	21	13	52.8%	0	0	0	0	0	0	21	13
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	90	209	-57.0%	0	0	0	0	0	0	90	209
Delaware	80	195	-59.0%	0	0	0	0	0	0	80	195
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2	2	-12.7%	0	0	0	0	0	0	2	2
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	8	12	-32.1%	0	0	0	0	0	0	8	12
East South Central	6	15	-58.7%	0	0	0	0	0	0	6	15
Alabama	NM	9	NM	0	0	0	0	0	0	NM	9
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	3	6	-39.8%	0	0	0	0	0	0	3	6
West South Central	1,846	1,986	-7.1%	0	0	592	571	0	0	1,253	1,415
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	778	932	-16.5%	0	0	0	0	0	0	778	932
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,068	1,054	1.3%	0	0	592	571	0	0	475	484
Mountain	170	174	-2.5%	0	0	5	7	0	0	165	167
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	5	7	-28.7%	0	0	5	7	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	6	-87.9%	0	0	0	0	0	0	1	6
Wyoming	164	161	1.8%	0	0	0	0	0	0	164	161
Pacific Contiguous	818	689	18.7%	0	0	170	128	0	0	648	561
California	648	561	15.5%	0	0	0	0	0	0	648	561
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	170	128	32.5%	0	0	170	128	0	0	0	0
Pacific Noncontiguous	22	21	6.5%	0	0	0	0	0	0	22	21
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	22	21	6.5%	0	0	0	0	0	0	22	21
U.S. Total	5,367	5,907	-9.1%	101	76	1,619	1,630	0	0	3,646	4,201

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	2,925	2,441	19.8%	0	0	2,925	2,441	0	0	0	0
Connecticut	1,551	1,440	7.7%	0	0	1,551	1,440	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	443	126	250.4%	0	0	443	126	0	0	0	0
New Hampshire	931	874	6.5%	0	0	931	874	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	13,193	11,676	13.0%	0	0	13,193	11,676	0	0	0	0
New Jersey	2,631	2,247	17.1%	0	0	2,631	2,247	0	0	0	0
New York	3,418	3,274	4.4%	0	0	3,418	3,274	0	0	0	0
Pennsylvania	7,145	6,156	16.1%	0	0	7,145	6,156	0	0	0	0
East North Central	13,055	12,648	3.2%	1,860	2,508	11,194	10,140	0	0	0	0
Illinois	8,083	7,561	6.9%	0	0	8,083	7,561	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,463	2,661	-7.5%	1,860	2,508	602	153	0	0	0	0
Ohio	1,611	1,527	5.5%	0	0	1,611	1,527	0	0	0	0
Wisconsin	898	899	-0.2%	0	0	898	899	0	0	0	0
West North Central	3,495	3,783	-7.6%	3,058	3,336	437	446	0	0	0	0
Iowa	437	446	-2.0%	0	0	437	446	0	0	0	0
Kansas	351	907	-61.3%	351	907	0	0	0	0	0	0
Minnesota	1,269	974	30.3%	1,269	974	0	0	0	0	0	0
Missouri	894	906	-1.4%	894	906	0	0	0	0	0	0
Nebraska	544	549	-0.9%	544	549	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	17,141	16,648	3.0%	15,807	15,320	1,334	1,329	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	2,734	2,723	0.4%	2,734	2,723	0	0	0	0	0	0
Georgia	2,812	3,004	-6.4%	2,812	3,004	0	0	0	0	0	0
Maryland	1,334	1,329	0.4%	0	0	1,334	1,329	0	0	0	0
North Carolina	3,630	3,850	-5.7%	3,630	3,850	0	0	0	0	0	0
South Carolina	4,547	3,565	27.5%	4,547	3,565	0	0	0	0	0	0
Virginia	2,084	2,178	-4.3%	2,084	2,178	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,421	6,240	2.9%	6,421	6,240	0	0	0	0	0	0
Alabama	3,260	3,789	-13.9%	3,260	3,789	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	-6	1,033	-100.6%	-6	1,033	0	0	0	0	0	0
Tennessee	3,166	1,418	123.2%	3,166	1,418	0	0	0	0	0	0
West South Central	6,174	4,462	38.4%	2,417	910	3,757	3,553	0	0	0	0
Arkansas	842	215	290.8%	842	215	0	0	0	0	0	0
Louisiana	1,575	694	126.9%	1,575	694	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,757	3,553	5.8%	0	0	3,757	3,553	0	0	0	0
Mountain	2,630	2,351	11.9%	2,630	2,351	0	0	0	0	0	0
Arizona	2,630	2,351	11.9%	2,630	2,351	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	2,286	1,063	115.0%	2,286	1,063	0	0	0	0	0	0
California	1,683	840	100.3%	1,683	840	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	603	223	170.3%	603	223	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	67,320	61,313	9.8%	34,479	31,728	32,841	29,585	0	0	0	0

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

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

by State, by Sector, Year-to-Date through May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	13,604	12,013	13.2%	0	0	13,604	12,013	0	0	0	0
Connecticut	7,582	6,836	10.9%	0	0	7,582	6,836	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	1,489	1,607	-7.3%	0	0	1,489	1,607	0	0	0	0
New Hampshire	4,532	3,571	26.9%	0	0	4,532	3,571	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	65,519	63,313	3.5%	0	0	65,519	63,313	0	0	0	0
New Jersey	14,117	13,825	2.1%	0	0	14,117	13,825	0	0	0	0
New York	17,202	15,953	7.8%	0	0	17,202	15,953	0	0	0	0
Pennsylvania	34,200	33,535	2.0%	0	0	34,200	33,535	0	0	0	0
East North Central	64,281	62,604	2.7%	9,523	11,246	54,758	51,357	0	0	0	0
Illinois	40,203	38,881	3.4%	0	0	40,203	38,881	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	12,387	13,209	-6.2%	9,523	11,246	2,863	1,962	0	0	0	0
Ohio	7,319	6,623	10.5%	0	0	7,319	6,623	0	0	0	0
Wisconsin	4,373	3,891	12.4%	0	0	4,373	3,891	0	0	0	0
West North Central	18,614	19,522	-4.7%	16,426	17,311	2,187	2,211	0	0	0	0
Iowa	2,187	2,211	-1.1%	0	0	2,187	2,211	0	0	0	0
Kansas	2,954	4,429	-33.3%	2,954	4,429	0	0	0	0	0	0
Minnesota	6,330	5,635	12.4%	6,330	5,635	0	0	0	0	0	0
Missouri	4,431	4,395	0.8%	4,431	4,395	0	0	0	0	0	0
Nebraska	2,711	2,853	-5.0%	2,711	2,853	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	83,802	81,457	2.9%	77,902	75,435	5,900	6,022	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	12,567	11,489	9.4%	12,567	11,489	0	0	0	0	0	0
Georgia	13,997	13,144	6.5%	13,997	13,144	0	0	0	0	0	0
Maryland	5,900	6,022	-2.0%	0	0	5,900	6,022	0	0	0	0
North Carolina	16,915	16,683	1.4%	16,915	16,683	0	0	0	0	0	0
South Carolina	22,793	21,325	6.9%	22,793	21,325	0	0	0	0	0	0
Virginia	11,629	12,793	-9.1%	11,629	12,793	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	33,653	32,270	4.3%	33,653	32,270	0	0	0	0	0	0
Alabama	15,423	17,265	-10.7%	15,423	17,265	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	2,371	3,101	-23.5%	2,371	3,101	0	0	0	0	0	0
Tennessee	15,859	11,904	33.2%	15,859	11,904	0	0	0	0	0	0
West South Central	29,428	25,388	15.9%	12,101	9,450	17,327	15,939	0	0	0	0
Arkansas	5,404	4,157	30.0%	5,404	4,157	0	0	0	0	0	0
Louisiana	6,697	5,293	26.5%	6,697	5,293	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	17,327	15,939	8.7%	0	0	17,327	15,939	0	0	0	0
Mountain	13,110	13,106	0.0%	13,110	13,106	0	0	0	0	0	0
Arizona	13,110	13,106	0.0%	13,110	13,106	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	10,867	10,157	7.0%	10,867	10,157	0	0	0	0	0	0
California	6,925	6,994	-1.0%	6,925	6,994	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3,942	3,163	24.6%	3,942	3,163	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	332,879	319,830	4.1%	173,583	168,974	159,296	150,856	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 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	652	685	-4.8%	88	96	528	550	0	1	36	38
Connecticut	26	32	-17.9%	3	4	23	28	0	0	0	0
Maine	306	312	-2.0%	0	0	271	275	0	0	35	37
Massachusetts	79	86	-8.3%	17	20	61	64	0	1	1	1
New Hampshire	126	134	-6.2%	28	28	98	106	0	0	0	0
Rhode Island	0	0	9.6%	0	0	0	0	0	0	0	0
Vermont	115	120	-4.8%	41	43	74	77	0	0	0	0
Middle Atlantic	2,867	2,821	1.6%	2,214	2,125	646	689	1	1	6	7
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,597	2,525	2.8%	2,200	2,111	391	407	1	1	6	7
Pennsylvania	265	291	-9.1%	14	14	251	277	0	0	0	0
East North Central	563	565	-0.2%	493	497	52	51	0	0	NM	NM
Illinois	14	10	37.2%	4	NM	10	8	0	0	0	0
Indiana	43	43	-0.3%	43	43	0	0	0	0	0	0
Michigan	171	170	0.7%	157	156	NM	NM	0	0	NM	NM
Ohio	51	53	-2.9%	33	34	18	19	0	0	0	0
Wisconsin	284	289	-1.6%	257	262	NM	NM	0	0	NM	NM
West North Central	1,314	1,297	1.3%	1,277	1,254	NM	NM	0	0	NM	17
Iowa	86	90	-5.2%	85	89	1	1	0	0	0	0
Kansas	3	3	2.1%	0	0	3	3	0	0	0	0
Minnesota	118	127	-7.3%	85	88	NM	NM	0	0	NM	17
Missouri	133	157	-15.4%	133	157	0	0	0	0	0	0
Nebraska	166	166	-0.3%	166	166	0	0	0	0	0	0
North Dakota	241	229	5.2%	241	229	0	0	0	0	0	0
South Dakota	568	525	8.2%	568	525	0	0	0	0	0	0
South Atlantic	1,633	1,822	-10.4%	1,279	1,464	302	305	1	2	51	52
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	18	20	-6.3%	18	20	0	0	0	0	0	0
Georgia	286	344	-17.0%	284	342	NM	NM	0	0	1	1
Maryland	245	243	0.8%	0	0	245	243	0	0	0	0
North Carolina	487	549	-11.4%	480	542	NM	NM	1	2	NM	NM
South Carolina	269	325	-17.2%	263	318	NM	NM	0	0	0	0
Virginia	166	177	-6.2%	158	168	8	8	0	0	0	0
West Virginia	162	164	-1.3%	75	74	37	40	0	0	50	50
East South Central	1,968	2,228	-11.6%	1,967	2,227	NM	NM	0	0	0	0
Alabama	821	1,039	-21.0%	821	1,039	0	0	0	0	0	0
Kentucky	424	395	7.4%	423	394	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	723	794	-8.9%	723	794	0	0	0	0	0	0
West South Central	908	983	-7.6%	788	869	120	114	NM	NM	0	0
Arkansas	373	407	-8.4%	368	404	NM	NM	0	0	0	0
Louisiana	111	108	2.8%	0	0	111	108	0	0	0	0
Oklahoma	268	286	-6.2%	268	286	0	0	0	0	0	0
Texas	156	182	-14.4%	152	179	3	2	NM	NM	0	0
Mountain	3,632	3,453	5.2%	3,477	3,304	153	148	2	2	0	0
Arizona	643	635	1.4%	643	635	0	0	0	0	0	0
Colorado	251	234	7.2%	220	203	NM	NM	2	2	0	0
Idaho	1,074	1,040	3.3%	974	944	100	95	0	0	0	0
Montana	1,168	1,141	2.4%	1,152	1,125	NM	NM	0	0	0	0
Nevada	242	169	43.8%	236	163	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	102	93	9.9%	102	91	0	2	0	0	0	0
Wyoming	121	114	6.1%	120	114	2	0	0	0	0	0
Pacific Contiguous	16,542	18,121	-8.7%	16,283	17,762	258	357	NM	2	0	0
California	3,134	4,969	-36.9%	2,956	4,692	176	276	NM	2	0	0
Oregon	3,880	3,962	-2.1%	3,848	3,931	NM	NM	0	0	0	0
Washington	9,528	9,189	3.7%	9,478	9,139	NM	NM	0	0	0	0
Pacific Noncontiguous	212	201	5.0%	183	175	4	2	NM	NM	NM	NM
Alaska	201	195	3.3%	181	175	0	0	NM	NM	0	0
Hawaii	NM	NM	NM	2	1	4	2	0	0	NM	NM
U.S. Total	30,291	32,177	-5.9%	28,049	29,772	2,090	2,243	NM	NM	126	135

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

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

by State, by Sector, Year-to-Date through May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	3,061	3,071	-0.3%	416	419	2,473	2,481	2	2	170	169
Connecticut	127	130	-2.8%	18	14	109	116	0	0	0	0
Maine	1,437	1,433	0.3%	0	0	1,272	1,268	0	0	166	165
Massachusetts	371	378	-1.9%	79	85	286	287	2	2	4	4
New Hampshire	591	590	0.0%	131	131	460	460	0	0	0	0
Rhode Island	2	1	32.4%	0	0	2	1	0	0	0	0
Vermont	534	537	-0.7%	188	189	345	348	0	0	0	0
Middle Atlantic	13,515	13,242	2.1%	10,449	10,140	3,030	3,067	3	3	33	33
New Jersey	23	16	45.6%	0	0	23	16	0	0	0	0
New York	12,261	11,956	2.6%	10,393	10,083	1,832	1,837	3	3	33	33
Pennsylvania	1,231	1,271	-3.1%	56	57	1,176	1,214	0	0	0	0
East North Central	2,730	2,684	1.7%	2,401	2,356	243	239	1	1	86	88
Illinois	58	55	5.9%	19	17	39	38	1	1	0	0
Indiana	200	199	0.7%	200	199	0	0	0	0	0	0
Michigan	813	794	2.4%	745	727	55	54	0	0	12	NM
Ohio	239	240	-0.3%	153	154	86	86	0	0	0	0
Wisconsin	1,419	1,396	1.6%	1,283	1,260	63	61	0	0	74	76
West North Central	5,795	5,736	1.0%	5,619	5,539	124	125	0	0	52	72
Iowa	462	451	2.6%	460	447	2	3	0	0	0	0
Kansas	9	12	-21.1%	0	0	9	12	0	0	0	0
Minnesota	607	612	-0.8%	442	430	113	110	0	0	52	72
Missouri	627	653	-3.9%	627	653	0	0	0	0	0	0
Nebraska	806	786	2.5%	806	786	0	0	0	0	0	0
North Dakota	1,025	1,005	2.1%	1,025	1,005	0	0	0	0	0	0
South Dakota	2,258	2,219	1.8%	2,258	2,219	0	0	0	0	0	0
South Atlantic	7,521	7,866	-4.4%	5,868	6,140	1,407	1,479	6	6	241	242
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	86	87	-1.7%	86	87	0	0	0	0	0	0
Georgia	1,368	1,508	-9.3%	1,358	1,497	5	NM	0	0	5	7
Maryland	1,138	1,215	-6.3%	0	0	1,138	1,215	0	0	0	0
North Carolina	2,159	2,208	-2.2%	2,125	2,179	25	21	5	5	NM	NM
South Carolina	1,266	1,350	-6.3%	1,235	1,324	30	26	1	1	0	0
Virginia	745	740	0.7%	711	705	35	35	0	0	0	0
West Virginia	759	758	0.3%	353	348	174	178	0	0	232	231
East South Central	9,304	9,685	-3.9%	9,299	9,681	NM	NM	0	0	0	0
Alabama	4,132	4,364	-5.3%	4,132	4,364	0	0	0	0	0	0
Kentucky	1,782	1,832	-2.7%	1,778	1,827	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	3,390	3,489	-2.9%	3,390	3,489	0	0	0	0	0	0
West South Central	4,257	4,357	-2.3%	3,699	3,815	556	539	NM	NM	0	0
Arkansas	1,749	1,796	-2.6%	1,729	1,780	21	16	0	0	0	0
Louisiana	521	511	1.9%	0	0	521	511	0	0	0	0
Oklahoma	1,257	1,279	-1.7%	1,257	1,279	0	0	0	0	0	0
Texas	730	772	-5.4%	713	757	14	13	NM	NM	0	0
Mountain	16,267	15,689	3.7%	15,599	15,040	664	645	3	4	0	0
Arizona	3,139	3,098	1.3%	3,139	3,098	0	0	0	0	0	0
Colorado	1,038	1,026	1.2%	913	901	121	121	3	4	0	0
Idaho	4,796	4,692	2.2%	4,360	4,267	436	425	0	0	0	0
Montana	5,330	5,209	2.3%	5,256	5,137	74	72	0	0	0	0
Nevada	901	627	43.8%	875	607	26	NM	0	0	0	0
New Mexico	125	123	1.8%	125	123	0	0	0	0	0	0
Utah	417	406	2.6%	412	398	5	8	0	0	0	0
Wyoming	520	507	2.5%	518	507	2	0	0	0	0	0
Pacific Contiguous	71,416	80,874	-11.7%	70,404	79,295	1,004	1,567	NM	12	0	0
California	10,922	21,328	-48.8%	10,300	20,130	614	1,187	NM	12	0	0
Oregon	18,840	18,689	0.8%	18,694	18,545	147	143	0	0	0	0
Washington	41,653	40,857	1.9%	41,411	40,621	243	236	0	0	0	0
Pacific Noncontiguous	943	907	3.9%	814	790	19	7	94	92	NM	NM
Alaska	898	878	2.2%	804	786	0	0	94	92	0	0
Hawaii	45	29	55.4%	10	4	19	7	0	0	NM	NM
U.S. Total	134,809	144,112	-6.5%	124,567	133,217	9,524	10,154	120	121	598	621

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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, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	974	1,011	-3.6%	32	65	835	835	12	17	94	94
Connecticut	66	80	-18.1%	0	0	65	80	NM	0	NM	0
Maine	404	424	-4.8%	0	0	306	322	4	8	94	94
Massachusetts	265	235	12.8%	NM	7	253	223	5	5	0	0
New Hampshire	148	177	-16.3%	5	25	140	148	2	3	0	0
Rhode Island	30	31	-1.0%	0	0	30	30	0	1	0	0
Vermont	61	65	-4.8%	20	33	41	32	0	0	0	0
Middle Atlantic	1,281	1,248	2.6%	11	11	1,135	1,098	70	71	65	69
New Jersey	221	196	12.8%	11	11	175	150	34	34	NM	NM
New York	579	544	6.4%	0	0	545	507	23	22	12	14
Pennsylvania	481	508	-5.3%	0	0	415	440	14	14	52	53
East North Central	2,564	2,632	-2.6%	328	331	2,079	2,150	22	22	136	128
Illinois	937	1,032	-9.2%	3	3	934	1,028	NM	NM	0	0
Indiana	508	465	9.1%	39	37	460	419	2	2	6	7
Michigan	620	668	-7.2%	157	173	393	427	12	14	58	54
Ohio	203	208	-2.7%	NM	NM	180	185	NM	1	19	20
Wisconsin	296	259	14.6%	126	117	112	90	5	5	52	47
West North Central	5,753	6,525	-11.8%	1,715	2,134	3,965	4,313	14	18	60	60
Iowa	1,555	1,825	-14.8%	979	1,182	569	636	4	4	3	2
Kansas	1,587	1,648	-3.7%	161	175	1,424	1,471	NM	NM	0	0
Minnesota	1,121	1,172	-4.4%	214	261	846	849	4	NM	57	57
Missouri	224	172	29.9%	NM	3	218	162	2	7	0	0
Nebraska	358	462	-22.5%	19	22	337	438	2	2	0	0
North Dakota	722	969	-25.5%	283	402	439	567	0	0	0	0
South Dakota	187	277	-32.5%	56	88	131	190	0	0	0	0
South Atlantic	3,344	2,868	16.6%	499	323	1,853	1,622	41	39	951	885
Delaware	12	13	-2.9%	NM	NM	10	10	NM	NM	NM	NM
District of Columbia	5	4	32.8%	0	0	5	4	0	0	0	0
Florida	636	495	28.6%	230	71	227	252	5	3	175	168
Georgia	638	609	4.7%	32	30	262	267	NM	NM	343	312
Maryland	133	124	6.8%	NM	NM	119	116	3	NM	10	6
North Carolina	1,026	868	18.3%	45	43	846	696	16	15	120	113
South Carolina	287	232	23.9%	37	35	92	37	0	0	159	160
Virginia	472	373	26.5%	154	142	157	89	17	18	144	124
West Virginia	136	152	-10.5%	0	0	136	152	0	0	0	0
East South Central	649	538	20.6%	17	12	129	68	NM	NM	503	458
Alabama	329	296	11.2%	NM	NM	59	41	0	0	266	253
Kentucky	44	37	17.3%	13	9	NM	1	0	0	30	27
Mississippi	175	117	49.1%	0	0	39	NM	0	0	136	115
Tennessee	102	88	16.0%	0	0	31	25	NM	NM	71	63
West South Central	10,736	9,010	19.1%	167	144	10,087	8,447	9	8	472	410
Arkansas	154	116	32.3%	NM	NM	31	12	0	1	123	104
Louisiana	249	239	4.0%	NM	0	7	7	0	0	242	233
Oklahoma	2,530	2,054	23.1%	142	120	2,361	1,933	0	0	27	1
Texas	7,803	6,600	18.2%	25	24	7,689	6,496	8	8	81	73
Mountain	4,209	4,055	3.8%	343	346	3,816	3,666	15	15	34	28
Arizona	676	602	12.4%	92	67	582	533	NM	NM	0	0
Colorado	923	989	-6.6%	30	29	890	956	NM	NM	0	0
Idaho	308	313	-1.8%	13	NM	262	285	0	1	32	26
Montana	156	191	-18.2%	15	20	140	170	0	0	1	1
Nevada	824	711	15.9%	5	5	812	699	NM	7	0	0
New Mexico	671	525	27.8%	30	27	641	497	NM	NM	0	0
Utah	337	341	-1.3%	23	21	313	319	1	1	0	0
Wyoming	313	383	-18.2%	135	176	177	206	0	0	0	0
Pacific Contiguous	7,577	6,856	10.5%	727	674	6,542	5,909	83	86	224	187
California	5,963	5,406	10.3%	243	230	5,576	5,044	79	82	65	51
Oregon	869	695	25.1%	161	101	666	555	3	3	39	36
Washington	744	756	-1.5%	324	343	299	311	NM	NM	120	101
Pacific Noncontiguous	135	140	-3.6%	12	18	105	101	18	21	NM	0
Alaska	16	18	-9.4%	8	9	NM	NM	4	4	NM	0
Hawaii	119	123	-2.8%	4	9	101	96	14	18	0	0
U.S. Total	37,222	34,884	6.7%	3,852	4,058	30,545	28,210	285	298	2,539	2,319

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

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

by State, by Sector, Year-to-Date through May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	5,133	4,879	5.2%	335	344	4,257	3,978	78	81	464	476
Connecticut	336	365	-7.8%	1	1	335	364	NM	0	NM	0
Maine	2,272	2,208	2.9%	0	0	1,780	1,696	30	37	463	476
Massachusetts	1,108	936	18.3%	35	33	1,047	879	25	24	2	0
New Hampshire	833	868	-4.0%	85	109	730	743	18	15	0	0
Rhode Island	174	157	11.3%	0	0	171	153	4	3	0	0
Vermont	410	345	18.9%	214	200	195	143	1	1	0	0
Middle Atlantic	6,605	6,155	7.3%	38	34	5,921	5,476	296	286	350	358
New Jersey	906	797	13.7%	38	34	723	628	141	131	NM	NM
New York	3,031	2,754	10.1%	0	0	2,859	2,583	91	90	81	82
Pennsylvania	2,667	2,603	2.5%	0	0	2,339	2,265	64	65	265	273
East North Central	15,358	13,783	11.4%	1,808	1,678	12,747	11,341	94	96	710	668
Illinois	6,035	5,564	8.5%	15	16	6,016	5,547	NM	NM	0	0
Indiana	2,968	2,414	22.9%	179	163	2,745	2,207	9	9	34	35
Michigan	3,565	3,366	5.9%	934	898	2,294	2,156	51	54	287	258
Ohio	1,188	1,123	5.8%	11	9	1,045	985	6	7	126	122
Wisconsin	1,602	1,314	21.9%	669	592	646	446	25	24	263	252
West North Central	35,503	34,015	4.4%	11,055	11,290	24,078	22,356	77	81	293	288
Iowa	10,010	9,831	1.8%	6,345	6,377	3,632	3,418	22	19	11	17
Kansas	8,831	8,340	5.9%	884	729	7,941	7,604	NM	NM	0	0
Minnesota	6,577	6,086	8.1%	1,322	1,401	4,955	4,396	24	22	277	266
Missouri	1,437	863	66.5%	17	16	1,399	821	19	25	1	1
Nebraska	2,421	2,487	-2.6%	113	114	2,303	2,364	5	9	0	0
North Dakota	4,884	4,886	0.0%	1,959	2,168	2,920	2,715	0	0	4	3
South Dakota	1,343	1,523	-11.8%	415	485	927	1,037	0	0	0	0
South Atlantic	15,249	12,799	19.1%	2,161	1,392	8,339	6,763	172	171	4,578	4,473
Delaware	54	51	5.5%	NM	NM	41	38	3	3	6	7
District of Columbia	25	21	18.7%	0	0	20	21	5	0	0	0
Florida	3,152	2,470	27.6%	941	305	1,312	1,273	23	21	877	871
Georgia	2,970	2,785	6.6%	125	115	1,112	1,000	NM	NM	1,730	1,669
Maryland	631	575	9.6%	NM	NM	569	517	11	9	46	46
North Carolina	4,126	3,234	27.6%	160	124	3,330	2,544	57	52	579	514
South Carolina	1,325	1,126	17.6%	194	185	391	184	0	0	740	757
Virginia	2,124	1,793	18.4%	733	657	720	443	72	84	600	609
West Virginia	844	744	13.4%	0	0	844	744	0	0	0	0
East South Central	2,947	2,702	9.1%	75	49	518	285	NM	NM	2,352	2,366
Alabama	1,530	1,453	5.3%	16	NM	247	179	0	0	1,266	1,269
Kentucky	208	187	10.8%	58	44	3	3	0	0	146	140
Mississippi	732	610	20.1%	0	0	143	8	0	0	589	602
Tennessee	478	452	5.7%	0	0	125	95	NM	NM	350	355
West South Central	52,213	46,253	12.9%	792	842	49,174	43,230	40	35	2,207	2,146
Arkansas	720	616	16.9%	NM	NM	128	58	2	3	589	554
Louisiana	1,140	1,149	-0.8%	NM	0	34	34	0	0	1,105	1,115
Oklahoma	13,448	11,362	18.4%	665	718	12,645	10,538	0	0	139	106
Texas	36,905	33,127	11.4%	125	123	36,367	32,601	38	32	375	371
Mountain	20,274	18,531	9.4%	1,765	1,666	18,282	16,658	55	54	171	153
Arizona	2,425	2,278	6.5%	321	230	2,096	2,040	9	8	0	0
Colorado	4,972	4,888	1.7%	151	148	4,810	4,729	9	10	2	2
Idaho	1,653	1,516	9.1%	65	5	1,424	1,364	4	4	160	142
Montana	1,011	1,025	-1.4%	101	108	902	909	0	0	8	8
Nevada	3,419	3,025	13.0%	17	17	3,374	2,983	27	24	1	1
New Mexico	3,378	2,298	47.0%	102	95	3,275	2,202	NM	NM	0	0
Utah	1,401	1,447	-3.2%	109	111	1,287	1,330	5	5	0	0
Wyoming	2,016	2,055	-1.9%	901	954	1,115	1,101	0	0	0	0
Pacific Contiguous	32,906	30,161	9.1%	3,645	3,273	27,739	25,470	403	412	1,118	1,007
California	24,233	22,767	6.4%	842	858	22,706	21,257	382	391	303	260
Oregon	4,098	3,207	27.8%	587	396	3,274	2,588	14	13	223	210
Washington	4,576	4,187	9.3%	2,217	2,018	1,760	1,625	7	7	592	537
Pacific Noncontiguous	685	673	1.8%	84	88	505	492	95	93	NM	NM
Alaska	96	90	6.5%	50	48	27	27	19	15	NM	NM
Hawaii	589	583	1.0%	34	40	479	464	76	78	0	0
U.S. Total	186,873	169,950	10.0%	21,758	20,656	151,560	136,049	1,312	1,310	12,244	11,935

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

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	-40	-30	29.8%	0	0	-40	-30	0	0	0	0
Connecticut	1	1	65.6%	0	0	1	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-41	-31	30.6%	0	0	-41	-31	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	-84	-85	-1.1%	-43	-43	-42	-43	0	0	0	0
New Jersey	-13	-11	18.6%	-13	-11	0	0	0	0	0	0
New York	-30	-31	-5.9%	-30	-31	0	0	0	0	0	0
Pennsylvania	-42	-43	-2.8%	0	0	-42	-43	0	0	0	0
East North Central	-55	-49	10.9%	-55	-49	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	-55	-49	10.9%	-55	-49	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	8	40	-79.2%	8	40	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	8	40	-79.2%	8	40	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	-163	-280	-41.9%	-163	-280	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	-27	-94	-70.7%	-27	-94	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	-27	-116	-76.6%	-27	-116	0	0	0	0	0	0
Virginia	-108	-71	53.3%	-108	-71	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-53	-51	2.4%	-53	-51	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	-53	-51	2.4%	-53	-51	0	0	0	0	0	0
West South Central	-13	-2	461.8%	-13	-2	0	0	0	0	0	0
Arkansas	2	10	-76.4%	2	10	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-15	-12	27.3%	-15	-12	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-9	-34	-74.6%	-9	-34	0	0	0	0	0	0
Arizona	10	-5	-323.3%	10	-5	0	0	0	0	0	0
Colorado	-19	-29	-36.2%	-19	-29	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	17	70	-75.4%	17	70	0	0	0	0	0	0
California	18	66	-73.5%	18	66	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	3	-112.0%	0	3	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	-390	-423	-7.8%	-309	-350	-81	-73	0	0	0	0

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

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

by State, by Sector, Year-to-Date through May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	-172	-170	1.3%	0	0	-172	-170	0	0	0	0
Connecticut	-4	-5	-15.7%	0	0	-4	-5	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-168	-165	1.8%	0	0	-168	-165	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	-446	-442	0.9%	-211	-222	-235	-220	0	0	0	0
New Jersey	-51	-62	-18.7%	-51	-62	0	0	0	0	0	0
New York	-161	-159	0.9%	-161	-159	0	0	0	0	0	0
Pennsylvania	-235	-220	6.4%	0	0	-235	-220	0	0	0	0
East North Central	-243	-223	9.2%	-243	-223	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	-243	-223	9.2%	-243	-223	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	45	59	-23.9%	45	59	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	45	59	-23.9%	45	59	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	-780	-1,242	-37.2%	-780	-1,242	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	-183	-520	-64.9%	-183	-520	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	-137	-380	-63.8%	-137	-380	0	0	0	0	0	0
Virginia	-460	-342	34.4%	-460	-342	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-222	-225	-1.2%	-222	-225	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	-222	-225	-1.2%	-222	-225	0	0	0	0	0	0
West South Central	-21	-27	-22.0%	-21	-27	0	0	0	0	0	0
Arkansas	27	16	73.1%	27	16	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-49	-43	12.7%	-49	-43	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-156	-175	-10.9%	-156	-175	0	0	0	0	0	0
Arizona	-31	-46	-32.1%	-31	-46	0	0	0	0	0	0
Colorado	-125	-130	-3.4%	-125	-130	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	-124	119	-204.1%	-124	119	0	0	0	0	0	0
California	-148	116	-227.4%	-148	116	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	24	3	849.4%	24	3	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	-2,119	-2,326	-8.9%	-1,713	-1,936	-407	-390	0	0	0	0

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

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	133	162	-17.6%	0	0	123	145	4	8	6	9
Connecticut	30	49	-39.2%	0	0	30	49	0	0	0	0
Maine	24	34	-30.6%	0	0	14	17	4	8	6	9
Massachusetts	76	74	2.4%	0	0	76	74	0	0	0	0
New Hampshire	4	4	-10.5%	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	181	191	-5.4%	0	0	140	143	41	42	0	6
New Jersey	46	42	8.5%	0	0	33	23	13	13	0	6
New York	74	79	-6.9%	0	0	53	59	21	21	0	0
Pennsylvania	61	69	-12.1%	0	0	53	61	8	9	0	0
East North Central	75	62	20.8%	1	1	9	6	14	15	51	40
Illinois	23	6	276.1%	0	0	-1	-2	0	0	25	8
Indiana	23	29	-19.1%	0	0	0	0	2	1	21	27
Michigan	22	23	-1.9%	0	0	10	8	12	13	0	1
Ohio	1	0	482.0%	0	0	0	-1	0	0	1	1
Wisconsin	5	4	23.1%	2	1	0	0	0	0	NM	NM
West North Central	42	38	9.0%	22	17	13	14	NM	3	5	5
Iowa	0	1	-100.0%	0	0	0	0	0	0	0	1
Kansas	0	0	-5.7%	0	0	0	0	0	0	0	0
Minnesota	38	33	13.6%	18	13	13	14	NM	3	5	3
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	3	NM	NM	3	NM	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	362	386	-6.3%	0	0	188	176	15	16	158	193
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	228	284	-19.9%	0	0	111	127	0	0	117	158
Georgia	11	6	73.9%	0	0	0	0	0	0	11	6
Maryland	25	30	-17.2%	0	0	25	30	0	0	0	0
North Carolina	55	46	17.9%	0	0	28	21	0	0	26	25
South Carolina	4	4	-12.0%	0	0	1	0	0	0	3	4
Virginia	41	16	151.2%	0	0	26	0	15	16	0	0
West Virginia	-1	-1	-18.8%	0	0	-1	-1	0	0	0	0
East South Central	2	2	-32.2%	1	0	0	0	0	0	NM	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	1	0	--	1	0	0	0	0	0	0	0
Mississippi	0	0	-100.0%	0	0	0	0	0	0	0	0
Tennessee	NM	2	NM	0	0	0	0	0	0	NM	2
West South Central	108	91	19.6%	0	0	11	8	0	0	97	82
Arkansas	0	1	-62.9%	0	0	0	0	0	0	0	1
Louisiana	67	43	57.6%	0	0	0	0	0	0	67	43
Oklahoma	5	5	-13.3%	0	0	5	4	0	0	0	1
Texas	36	42	-13.5%	0	0	7	4	0	0	29	38
Mountain	56	38	46.1%	2	3	26	26	0	0	27	10
Arizona	0	0	387.0%	0	0	0	0	0	0	0	0
Colorado	5	5	7.4%	0	0	2	1	0	0	3	4
Idaho	6	6	2.5%	0	0	0	0	0	0	6	6
Montana	25	25	0.2%	0	0	25	25	0	0	0	0
Nevada	2	2	-7.7%	2	2	0	0	0	0	0	0
New Mexico	0	0	-53.1%	0	0	0	0	0	0	0	0
Utah	11	0	NM	0	0	0	0	0	0	11	0
Wyoming	7	0	--	0	0	0	0	0	0	7	0
Pacific Contiguous	87	78	11.2%	0	0	22	26	0	0	65	52
California	79	69	14.6%	0	0	14	17	0	0	65	52
Oregon	4	3	7.5%	0	0	4	3	0	0	0	0
Washington	4	6	-26.7%	0	0	4	6	0	0	0	0
Pacific Noncontiguous	29	32	-9.8%	15	15	0	0	14	17	0	0
Alaska	0	0	-8.8%	0	0	0	0	0	0	0	0
Hawaii	29	33	-9.8%	16	16	0	0	14	17	0	0
U.S. Total	1,075	1,081	-0.6%	42	35	532	544	91	101	410	400

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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 May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	699	743	-5.9%	0	0	617	651	28	34	54	58
Connecticut	178	221	-19.3%	0	0	178	221	0	0	0	0
Maine	152	166	-8.0%	0	0	70	74	28	34	54	58
Massachusetts	349	337	3.7%	0	0	349	337	0	0	0	0
New Hampshire	19	20	-3.5%	0	0	19	20	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	902	924	-2.4%	0	0	715	714	181	181	6	29
New Jersey	231	238	-2.6%	0	0	162	147	63	61	6	29
New York	351	347	1.0%	0	0	269	265	81	82	0	0
Pennsylvania	320	339	-5.7%	0	0	283	301	36	38	0	0
East North Central	350	330	6.2%	6	6	47	28	57	60	239	236
Illinois	105	89	18.5%	0	0	-6	-11	0	0	111	99
Indiana	106	119	-11.4%	0	0	0	0	9	8	97	112
Michigan	109	100	8.7%	0	0	54	42	49	52	6	6
Ohio	5	0	NM	-1	-1	0	-3	0	0	6	4
Wisconsin	25	21	20.2%	7	7	0	0	0	0	18	14
West North Central	183	181	1.0%	87	80	55	64	13	13	28	24
Iowa	0	2	-100.0%	0	0	0	0	0	0	0	2
Kansas	2	2	17.7%	0	0	0	0	0	0	2	2
Minnesota	163	159	2.5%	69	62	55	64	13	13	26	20
Missouri	1	1	-4.0%	1	1	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	17	18	-2.1%	17	18	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,889	1,797	5.1%	0	0	1,025	895	64	76	800	825
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	1,257	1,306	-3.8%	0	0	635	648	0	0	621	657
Georgia	43	39	9.1%	0	0	0	0	0	0	43	39
Maryland	130	124	5.2%	0	0	130	124	0	0	0	0
North Carolina	256	212	20.9%	0	0	131	99	0	0	124	113
South Carolina	14	19	-23.0%	0	0	3	3	0	0	12	16
Virginia	194	103	88.2%	0	0	131	27	64	76	0	0
West Virginia	-5	-6	-7.5%	0	0	-5	-6	0	0	0	0
East South Central	23	22	4.1%	19	11	0	0	0	0	4	11
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	19	11	68.4%	19	11	0	0	0	0	0	0
Mississippi	0	2	-100.0%	0	0	0	0	0	0	0	2
Tennessee	4	9	-54.1%	0	0	0	0	0	0	4	9
West South Central	453	446	1.4%	0	0	56	45	0	0	396	402
Arkansas	3	3	8.1%	0	0	0	0	0	0	3	3
Louisiana	267	217	23.5%	0	0	0	0	0	0	267	217
Oklahoma	21	13	62.8%	0	0	20	15	0	0	1	-2
Texas	162	215	-24.7%	0	0	37	30	0	0	125	185
Mountain	302	275	10.0%	12	13	136	144	0	0	155	117
Arizona	0	0	77.4%	0	0	0	0	0	0	0	0
Colorado	26	23	9.5%	0	0	9	7	0	0	16	17
Idaho	32	27	14.9%	0	0	0	0	0	0	32	27
Montana	127	137	-7.5%	0	0	127	137	0	0	0	0
Nevada	12	13	-10.9%	12	13	0	0	0	0	0	0
New Mexico	0	0	-21.6%	0	0	0	0	0	0	0	0
Utah	71	52	36.8%	0	0	0	0	0	0	71	51
Wyoming	36	22	63.7%	0	0	0	0	0	0	36	22
Pacific Contiguous	393	389	0.9%	0	-2	116	116	0	0	277	275
California	352	349	0.9%	0	-2	75	75	0	0	277	275
Oregon	17	17	2.6%	0	0	17	17	0	0	0	0
Washington	24	24	-1.0%	0	0	24	24	0	0	0	0
Pacific Noncontiguous	144	146	-1.4%	71	69	0	2	73	75	0	0
Alaska	-1	-1	-24.3%	-1	-1	0	0	0	0	0	0
Hawaii	145	147	-1.6%	72	70	0	2	73	75	0	0
U.S. Total	5,337	5,252	1.6%	195	177	2,767	2,660	416	439	1,959	1,977

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

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	284	275	3.2%	19	19	263	254	2	2	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	184	183	0.3%	0	0	184	183	0	0	0	0
Massachusetts	18	19	-2.7%	NM	NM	12	12	2	1	0	0
New Hampshire	37	35	3.6%	0	0	37	35	0	0	0	0
Rhode Island	11	13	-12.4%	0	0	11	13	0	1	0	0
Vermont	33	23	38.9%	14	14	18	9	0	0	0	0
Middle Atlantic	637	624	2.2%	0	0	637	624	NM	0	0	0
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	360	330	9.0%	0	0	360	330	NM	0	0	0
Pennsylvania	275	292	-5.6%	0	0	275	292	0	0	0	0
East North Central	2,000	2,076	-3.7%	230	244	1,764	1,827	NM	NM	NM	NM
Illinois	898	984	-8.8%	NM	NM	897	983	NM	NM	0	0
Indiana	429	389	10.2%	0	0	429	389	0	0	0	0
Michigan	390	444	-12.1%	144	165	246	279	0	0	0	0
Ohio	133	138	-3.4%	NM	NM	127	133	0	0	NM	NM
Wisconsin	150	121	23.7%	83	77	66	44	0	0	1	1
West North Central	5,386	6,239	-13.7%	1,662	2,087	3,720	4,148	NM	NM	0	0
Iowa	1,534	1,811	-15.3%	975	1,179	558	632	0	0	0	0
Kansas	1,581	1,643	-3.8%	161	175	1,419	1,466	NM	NM	0	0
Minnesota	810	935	-13.4%	174	227	633	706	NM	NM	0	0
Missouri	204	153	33.8%	0	0	204	153	0	0	0	0
Nebraska	347	451	-22.9%	13	16	335	435	0	0	0	0
North Dakota	722	969	-25.5%	283	402	439	567	0	0	0	0
South Dakota	187	277	-32.5%	56	88	131	189	0	0	0	0
South Atlantic	219	245	-10.6%	0	0	219	245	0	0	0	0
Delaware	0	0	-32.3%	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	39	44	-12.0%	0	0	39	44	0	0	0	0
North Carolina	44	49	-9.6%	0	0	44	49	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	136	152	-10.5%	0	0	136	152	0	0	0	0
East South Central	NM	NM	NM	0	0	NM	NM	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	NM	NM	0	0	NM	NM	0	0	0	0
West South Central	9,824	8,284	18.6%	159	138	9,657	8,141	5	4	NM	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2,494	2,047	21.9%	135	115	2,360	1,932	0	0	0	0
Texas	7,330	6,237	17.5%	24	23	7,298	6,209	5	4	NM	0
Mountain	2,162	2,231	-3.1%	192	225	1,968	2,005	NM	NM	0	0
Arizona	62	61	1.0%	0	0	62	61	0	0	0	0
Colorado	795	873	-8.9%	30	28	764	843	NM	NM	0	0
Idaho	197	212	-7.0%	12	0	185	212	0	0	0	0
Montana	151	188	-19.6%	15	20	136	168	0	0	0	0
Nevada	37	36	1.7%	0	0	37	36	0	0	0	0
New Mexico	530	399	33.0%	0	0	530	399	NM	NM	0	0
Utah	77	80	-3.7%	0	0	77	80	0	0	0	0
Wyoming	313	383	-18.2%	135	176	177	206	0	0	0	0
Pacific Contiguous	2,815	2,593	8.6%	544	487	2,269	2,105	1	1	1	1
California	1,531	1,417	8.0%	106	93	1,424	1,323	1	1	1	1
Oregon	710	577	23.1%	155	95	555	482	0	0	0	0
Washington	574	598	-4.1%	284	298	290	300	0	0	0	0
Pacific Noncontiguous	74	73	0.7%	8	9	65	64	0	0	0	0
Alaska	12	14	-11.5%	8	9	NM	NM	0	0	0	0
Hawaii	61	59	3.6%	0	0	61	59	0	0	0	0
U.S. Total	23,405	22,642	3.4%	2,815	3,208	20,566	19,414	14	14	10	6

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

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

by State, by Sector, Year-to-Date through May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	1,701	1,481	14.9%	109	101	1,576	1,367	15	14	2	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	1,124	1,003	12.0%	0	0	1,124	1,003	0	0	0	0
Massachusetts	109	100	9.2%	27	26	70	64	11	10	2	0
New Hampshire	210	184	14.0%	0	0	210	184	0	0	0	0
Rhode Island	76	66	15.6%	0	0	73	63	4	3	0	0
Vermont	176	122	44.0%	82	75	93	47	0	0	0	0
Middle Atlantic	3,652	3,318	10.1%	0	0	3,649	3,317	NM	0	2	1
New Jersey	10	NM	NM	0	0	10	NM	0	0	0	0
New York	1,988	1,770	12.4%	0	0	1,985	1,769	NM	0	2	1
Pennsylvania	1,654	1,539	7.4%	0	0	1,654	1,539	0	0	0	0
East North Central	12,634	11,151	13.3%	1,367	1,292	11,228	9,828	NM	NM	35	26
Illinois	5,824	5,337	9.1%	6	6	5,815	5,329	NM	NM	0	0
Indiana	2,630	2,103	25.1%	0	0	2,630	2,102	0	1	0	0
Michigan	2,454	2,305	6.5%	889	885	1,565	1,420	0	0	0	0
Ohio	841	774	8.6%	NM	NM	801	747	2	2	32	22
Wisconsin	886	631	40.3%	466	398	416	229	0	0	3	4
West North Central	33,906	32,764	3.5%	10,815	11,064	23,070	21,678	20	21	0	0
Iowa	9,910	9,761	1.5%	6,330	6,365	3,578	3,394	1	2	0	0
Kansas	8,804	8,315	5.9%	883	729	7,915	7,580	NM	NM	0	0
Minnesota	5,250	5,058	3.8%	1,148	1,234	4,089	3,811	13	NM	0	0
Missouri	1,346	783	71.8%	0	0	1,346	783	0	0	0	0
Nebraska	2,375	2,441	-2.7%	79	83	2,295	2,358	0	0	0	0
North Dakota	4,879	4,883	-0.1%	1,959	2,168	2,920	2,715	0	0	0	0
South Dakota	1,342	1,522	-11.8%	415	485	926	1,037	0	0	0	0
South Atlantic	1,377	1,210	13.9%	0	0	1,375	1,207	3	3	0	0
Delaware	3	3	0.2%	0	0	0	0	3	3	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	241	236	2.3%	0	0	241	236	0	0	0	0
North Carolina	290	227	27.5%	0	0	290	227	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	844	744	13.4%	0	0	844	744	0	0	0	0
East South Central	21	10	101.5%	0	0	21	10	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	21	10	101.5%	0	0	21	10	0	0	0	0
West South Central	48,340	42,986	12.5%	762	829	47,552	42,139	23	18	NM	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	13,278	11,239	18.1%	640	707	12,638	10,532	0	0	0	0
Texas	35,062	31,747	10.4%	123	122	34,913	31,608	23	18	NM	0
Mountain	12,372	11,427	8.3%	1,210	1,209	11,156	10,212	NM	NM	2	2
Arizona	275	294	-6.3%	0	0	275	294	0	0	0	0
Colorado	4,486	4,462	0.5%	148	147	4,335	4,310	NM	NM	2	2
Idaho	1,185	1,119	5.9%	60	0	1,125	1,119	0	0	0	0
Montana	987	1,013	-2.6%	101	108	886	905	0	0	0	0
Nevada	170	178	-4.6%	0	0	170	178	0	0	0	0
New Mexico	2,874	1,856	54.8%	0	0	2,872	1,855	NM	NM	0	0
Utah	378	450	-15.9%	0	0	378	450	0	0	0	0
Wyoming	2,016	2,055	-1.9%	901	954	1,115	1,101	0	0	0	0
Pacific Contiguous	13,819	12,775	8.2%	2,819	2,449	10,996	10,321	3	3	1	2
California	6,724	6,774	-0.7%	253	279	6,467	6,489	3	3	1	2
Oregon	3,376	2,622	28.8%	558	366	2,818	2,256	0	0	0	0
Washington	3,718	3,379	10.0%	2,007	1,804	1,711	1,575	0	0	0	0
Pacific Noncontiguous	384	383	0.1%	50	48	334	336	0	0	0	0
Alaska	77	75	2.0%	50	48	27	27	0	0	0	0
Hawaii	307	308	-0.3%	0	0	307	308	0	0	0	0
U.S. Total	128,206	117,504	9.1%	17,133	16,992	110,956	100,415	73	68	45	30

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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 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	513	600	-14.5%	5	38	404	454	9	14	94	94
Connecticut	52	73	-29.4%	0	0	52	73	0	0	0	0
Maine	219	240	-8.8%	0	0	120	138	4	8	94	94
Massachusetts	104	104	0.1%	0	0	101	101	3	2	0	0
New Hampshire	111	141	-21.3%	5	25	103	113	2	3	0	0
Rhode Island	15	15	-4.6%	0	0	15	15	0	0	0	0
Vermont	NM	27	NM	0	13	NM	NM	0	0	0	0
Middle Atlantic	460	462	-0.4%	0	0	349	346	49	50	63	66
New Jersey	80	65	22.5%	0	0	65	50	15	15	0	0
New York	185	191	-3.1%	0	0	152	155	22	22	11	14
Pennsylvania	195	206	-5.2%	0	0	131	140	12	13	51	52
East North Central	477	484	-1.4%	68	65	260	275	20	21	130	123
Illinois	33	42	-21.4%	2	2	31	40	0	0	0	0
Indiana	36	36	-1.9%	23	24	4	4	2	1	6	7
Michigan	215	217	-0.9%	0	0	144	149	12	14	58	54
Ohio	53	56	-4.8%	0	NM	39	39	1	1	14	15
Wisconsin	141	134	5.5%	43	39	41	43	5	5	51	47
West North Central	202	198	2.1%	50	46	82	78	10	14	60	60
Iowa	19	13	46.9%	NM	NM	11	5	4	4	3	2
Kansas	5	5	-1.0%	0	0	5	5	0	0	0	0
Minnesota	161	157	2.2%	39	34	63	64	2	NM	57	57
Missouri	9	14	-36.9%	NM	3	NM	4	2	7	0	0
Nebraska	8	9	-4.6%	7	7	0	0	2	2	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,708	1,625	5.1%	216	171	518	547	24	22	950	885
Delaware	5	6	-5.2%	0	0	NM	4	0	0	NM	NM
District of Columbia	5	4	32.8%	0	0	5	4	0	0	0	0
Florida	419	420	-0.1%	56	8	185	241	4	3	174	168
Georgia	403	373	8.2%	0	0	60	61	0	0	343	312
Maryland	44	44	-1.0%	0	0	32	38	2	NM	10	6
North Carolina	229	215	6.7%	0	0	109	100	NM	NM	120	113
South Carolina	225	226	-0.6%	37	35	29	31	0	0	159	160
Virginia	378	338	11.8%	124	128	94	68	17	18	144	124
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	541	495	9.3%	7	7	32	30	0	0	502	458
Alabama	289	275	5.4%	0	0	24	22	0	0	266	253
Kentucky	38	35	6.9%	7	7	1	1	0	0	30	27
Mississippi	137	116	18.5%	0	0	NM	NM	0	0	136	115
Tennessee	77	70	10.3%	0	0	7	7	0	0	70	63
West South Central	564	477	18.4%	0	0	92	63	3	4	469	410
Arkansas	132	113	16.9%	0	0	9	9	0	1	123	104
Louisiana	249	239	3.9%	0	0	7	7	0	0	242	233
Oklahoma	28	2	NM	0	0	NM	NM	0	0	27	1
Texas	155	122	27.6%	0	0	75	46	3	3	77	73
Mountain	91	87	4.2%	NM	NM	55	57	2	2	34	28
Arizona	NM	NM	NM	0	0	NM	NM	0	0	0	0
Colorado	15	14	4.1%	0	0	15	14	0	0	0	0
Idaho	46	40	13.0%	NM	NM	12	12	0	1	32	26
Montana	1	1	0.8%	0	0	0	0	0	0	1	1
Nevada	5	5	-4.8%	0	0	5	5	0	0	0	0
New Mexico	1	2	-13.1%	0	0	1	2	0	0	0	0
Utah	6	6	-2.5%	0	0	5	5	1	1	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	741	727	1.9%	49	61	407	409	65	71	219	186
California	489	491	-0.5%	4	12	364	364	61	67	60	49
Oregon	81	78	4.0%	5	5	34	35	3	3	39	36
Washington	170	157	8.4%	40	44	9	11	NM	NM	120	101
Pacific Noncontiguous	19	26	-27.7%	1	5	0	0	18	21	NM	0
Alaska	4	4	-1.8%	0	0	0	0	4	4	NM	0
Hawaii	15	22	-32.2%	1	5	0	0	14	18	0	0
U.S. Total	5,317	5,181	2.6%	397	394	2,198	2,259	200	219	2,521	2,309

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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 1.15.B. Utility Scale Facility Net Generation from Biomass

by State, by Sector, Year-to-Date through May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	2,800	2,965	-5.6%	195	214	2,083	2,211	60	64	463	476
Connecticut	289	339	-14.9%	0	0	289	339	0	0	0	0
Maine	1,143	1,202	-4.9%	0	0	651	689	30	37	463	476
Massachusetts	488	482	1.4%	0	0	477	470	11	12	0	0
New Hampshire	622	683	-8.9%	85	109	520	559	18	15	0	0
Rhode Island	83	84	-1.4%	0	0	83	84	0	0	0	0
Vermont	175	175	-0.3%	110	105	64	69	1	1	0	0
Middle Atlantic	2,302	2,320	-0.8%	0	0	1,741	1,748	221	222	340	351
New Jersey	405	378	7.1%	0	0	330	306	74	72	0	0
New York	921	910	1.2%	0	0	755	742	87	87	79	81
Pennsylvania	977	1,032	-5.4%	0	0	655	700	61	63	261	269
East North Central	2,413	2,413	0.0%	330	323	1,322	1,359	87	90	674	641
Illinois	188	208	-9.3%	8	9	180	198	0	0	0	0
Indiana	182	181	0.5%	118	118	21	21	9	8	34	35
Michigan	1,056	1,048	0.8%	0	0	719	736	51	54	287	258
Ohio	289	301	-4.2%	NM	NM	192	196	3	4	93	100
Wisconsin	698	675	3.4%	203	194	210	208	25	24	260	249
West North Central	1,002	1,004	-0.2%	229	222	424	436	56	58	293	288
Iowa	93	67	38.5%	9	9	52	24	21	17	11	17
Kansas	24	24	1.0%	0	0	24	24	0	0	0	0
Minnesota	788	810	-2.7%	171	165	328	369	11	9	277	266
Missouri	54	61	-10.5%	15	16	20	19	18	24	1	1
Nebraska	38	40	-3.8%	33	31	0	0	5	9	0	0
North Dakota	4	3	53.2%	0	0	0	0	0	0	4	3
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	8,490	8,173	3.9%	949	828	2,854	2,757	110	115	4,577	4,473
Delaware	27	27	-0.7%	0	0	21	21	0	0	6	7
District of Columbia	25	21	18.7%	0	0	20	21	5	0	0	0
Florida	2,176	2,170	0.3%	138	37	1,143	1,242	21	20	875	871
Georgia	2,076	1,932	7.5%	0	0	345	262	0	0	1,730	1,669
Maryland	225	216	4.2%	0	0	170	163	9	6	46	46
North Carolina	1,105	1,028	7.4%	0	0	521	509	5	4	579	514
South Carolina	1,092	1,108	-1.5%	194	185	158	167	0	0	740	757
Virginia	1,765	1,671	5.6%	618	606	476	371	72	84	600	609
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,542	2,557	-0.6%	37	37	154	154	0	0	2,350	2,366
Alabama	1,380	1,381	-0.1%	0	0	114	112	0	0	1,266	1,269
Kentucky	186	181	3.0%	37	37	2	3	0	0	146	140
Mississippi	593	606	-2.1%	0	0	4	4	0	0	589	602
Tennessee	382	389	-1.7%	0	0	34	34	0	0	348	355
West South Central	2,584	2,516	2.7%	0	0	364	353	16	17	2,204	2,146
Arkansas	640	604	5.9%	0	0	49	47	2	3	589	554
Louisiana	1,139	1,149	-0.8%	0	0	34	34	0	0	1,105	1,115
Oklahoma	145	112	29.0%	0	0	6	6	0	0	139	106
Texas	660	651	1.4%	0	0	274	266	14	14	372	371
Mountain	451	441	2.1%	5	5	269	276	9	10	168	151
Arizona	86	92	-6.7%	0	0	86	92	0	0	0	0
Colorado	67	71	-5.2%	0	0	67	71	0	0	0	0
Idaho	225	205	9.9%	5	5	57	53	4	4	160	142
Montana	8	8	-2.4%	0	0	0	0	0	0	8	8
Nevada	25	25	-0.3%	0	0	25	25	0	0	0	0
New Mexico	8	8	-0.8%	0	0	8	8	0	0	0	0
Utah	31	32	-1.9%	0	0	26	27	5	5	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	3,686	3,646	1.1%	284	307	1,960	1,977	342	361	1,100	1,001
California	2,392	2,419	-1.1%	49	66	1,737	1,757	321	340	285	255
Oregon	437	419	4.3%	26	26	174	170	14	13	223	210
Washington	857	808	6.1%	209	215	49	49	7	7	592	537
Pacific Noncontiguous	115	115	-0.2%	20	22	0	0	95	93	NM	NM
Alaska	19	15	29.5%	0	0	0	0	19	15	NM	NM
Hawaii	96	100	-4.6%	20	22	0	0	76	78	0	0
U.S. Total	26,385	26,151	0.9%	2,049	1,957	11,170	11,271	997	1,030	12,168	11,893

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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, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
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	352	311	13.4%	23	21	329	290	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	6	5	7.4%	0	0	6	5	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	305	267	14.2%	0	0	305	267	0	0	0	0
New Mexico	1	1	-13.1%	0	0	1	1	0	0	0	0
Utah	40	37	9.2%	23	21	17	15	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,035	964	7.3%	70	67	964	897	0	0	0	0
California	1,018	949	7.3%	70	67	948	882	0	0	0	0
Oregon	16	15	8.2%	0	0	16	15	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	22	20	8.1%	0	0	22	20	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	22	20	8.1%	0	0	22	20	0	0	0	0
U.S. Total	1,409	1,295	8.8%	93	88	1,315	1,207	0	0	0	0

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

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

by State, by Sector, Year-to-Date through May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	1,706	1,628	4.8%	109	111	1,597	1,517	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	28	28	-1.0%	0	0	28	28	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,484	1,400	6.0%	0	0	1,484	1,400	0	0	0	0
New Mexico	5	7	-24.2%	0	0	5	7	0	0	0	0
Utah	189	193	-2.2%	109	111	80	82	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,872	4,940	-1.4%	315	325	4,557	4,615	0	0	0	0
California	4,794	4,859	-1.3%	315	323	4,479	4,536	0	0	0	0
Oregon	77	81	-4.9%	0	2	77	80	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	104	105	-1.4%	0	0	104	105	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	104	105	-1.4%	0	0	104	105	0	0	0	0
U.S. Total	6,681	6,673	0.1%	424	436	6,258	6,237	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 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, May 2018 and 2017 (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	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	459	359	27.8%	178	136	281	223	NM	8	168	127	NM	NM	NM	NM	142	122	NM	10	NM	0	13	10	126	90
Connecticut	65	47	37.7%	13	6	52	41	0	0	12	5	NM	16	NM	0	20	16	NM	2	NM	0	3	2	30	24
Maine	NM	5	NM	NM	NM	6	4	0	0	NM	NM	2	2	0	0	2	2	0	0	0	0	0	0	4	3
Massachusetts	331	265	25.3%	143	113	188	152	NM	NM	140	110	NM	NM	NM	NM	107	96	9	8	0	0	9	8	72	49
New Hampshire	11	9	29.8%	0	0	11	9	0	0	0	0	3	3	0	0	3	3	1	1	0	0	1	1	7	6
Rhode Island	NM	7	NM	NM	NM	9	5	0	0	NM	NM	5	3	0	0	5	3	0	0	0	0	0	0	4	3
Vermont	31	26	18.4%	16	14	15	12	NM	6	10	8	5	4	0	0	5	4	NM	0	0	0	NM	0	9	7
Middle Atlantic	587	496	18.3%	183	162	403	334	11	11	149	128	201	173	21	21	180	152	NM	NM	NM	NM	21	18	202	163
New Jersey	339	300	13.0%	139	129	199	171	11	11	108	98	120	110	19	19	100	91	NM	NM	NM	NM	13	10	86	69
New York	193	148	30.4%	34	23	160	126	0	0	33	22	NM	NM	NM	NM	64	46	2	1	0	0	2	1	94	78
Pennsylvania	55	48	14.5%	11	10	44	37	0	0	NM	8	NM	NM	NM	NM	16	15	NM	NM	NM	NM	6	6	22	16
East North Central	138	109	26.8%	86	71	52	38	30	22	55	48	NM	NM	NM	NM	32	24	3	2	0	0	3	2	17	12
Illinois	16	12	35.8%	7	6	9	6	0	0	6	6	NM	4	NM	0	6	4	0	NM	0	0	0	NM	3	2
Indiana	53	43	24.1%	43	40	10	3	16	13	27	26	6	1	0	0	6	1	0	0	0	0	0	0	3	2
Michigan	24	17	42.7%	15	8	9	9	13	8	NM	0	4	6	0	0	4	6	NM	0	0	0	NM	0	4	3
Ohio	33	29	13.7%	16	14	16	14	NM	NM	15	13	NM	NM	NM	NM	12	11	NM	1	0	0	NM	1	4	3
Wisconsin	NM	9	NM	NM	NM	8	6	0	0	NM	NM	3	2	0	0	3	2	1	1	0	0	1	1	3	2
West North Central	213	127	67.8%	166	89	47	38	NM	NM	163	88	24	20	0	0	24	20	2	1	0	0	2	1	22	17
Iowa	NM	10	NM	NM	NM	13	9	NM	NM	NM	0	8	6	0	0	8	6	0	0	0	0	0	0	4	3
Kansas	NM	2	NM	NM	0	3	2	NM	0	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Minnesota	159	86	84.2%	150	80	9	6	NM	NM	150	80	3	2	0	0	3	2	1	0	0	0	1	0	4	3
Missouri	33	26	26.8%	11	5	23	21	1	0	10	5	12	11	0	0	11	11	0	0	0	0	0	0	11	10
Nebraska	NM	3	NM	NM	NM	1	1	0	0	NM	NM	0	0	0	0	0	0	NM	0	0	0	NM	0	1	0
North Dakota	0	0	0.5%	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	NM	0	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	1,627	1,177	38.2%	1,392	998	234	180	259	152	1,116	830	84	73	17	16	67	58	NM	25	NM	0	30	25	137	97
Delaware	NM	16	NM	NM	7	11	9	NM	NM	NM	6	NM	NM	NM	NM	3	3	1	1	0	0	1	1	7	6
District of Columbia	7	5	42.4%	0	0	7	5	0	0	0	0	4	3	0	0	4	3	0	0	0	0	0	0	3	2
Florida	234	103	127.1%	193	74	41	29	150	63	41	11	NM	NM	NM	NM	10	9	NM	1	NM	0	1	1	29	18
Georgia	NM	260	NM	235	237	NM	23	32	30	202	206	NM	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM	NM	2
Maryland	143	108	32.1%	50	35	94	73	NM	NM	48	34	NM	NM	NM	NM	25	20	4	3	0	0	4	3	65	49
North Carolina	774	625	23.9%	753	604	21	21	45	43	693	547	27	27	15	14	12	13	1	1	0	0	1	1	9	7
South Carolina	86	19	351.8%	62	6	24	13	0	0	62	6	6	3	0	0	6	3	2	1	0	0	2	1	16	9
Virginia	102	41	149.3%	94	35	9	6	30	14	64	20	3	2	0	0	3	2	0	0	0	0	0	0	6	4
West Virginia	1	1	20.7%	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	118	54	118.6%	104	41	15	13	10	5	92	36	NM	NM	NM	NM	10	9	NM	0	NM	0	NM	0	5	4
Alabama	NM	22	NM	39	21	NM	NM	NM	NM	35	19	1	1	0	0	1	1	0	0	0	0	0	0	NM	NM
Kentucky	NM	4	NM	NM	2	3	3	NM	2	NM	0	2	2	0	0	2	2	0	0	0	0	0	0	1	1
Mississippi	39	3	NM	38	NM	1	1	0	0	38	NM	NM	1	0	0	NM	1	NM	NM	0	0	NM	NM	0	0
Tennessee	30	25	19.0%	20	16	9	9	0	0	19	15	NM	NM	NM	NM	7	7	NM	0	NM	0	NM	0	3	2
West South Central	464	342	35.8%	347	250	117	92	NM	6	338	243	31	24	0	0	31	23	NM	0	0	0	NM	0	86	69
Arkansas	24	4	455.5%	22	3	2	1	NM	NM	22	3	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Louisiana	NM	21	NM	NM	0	23	21	NM	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	22	20
Oklahoma	NM	6	NM	NM	5	1	1	NM	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Texas	408	311	31.5%	318	241	91	69	NM	NM	317	240	29	22	0	0	29	22	0	0	0	0	0	0	62	47
Mountain	1,859	1,651	12.6%	1,471	1,323	389	329	126	99	1,331	1,212	113	105	12	12	100	93	19	17	0	0	19	17	269	218
Arizona	701	617	13.7%	491	435	211	181	92	67	396	367	NM	NM	NM	NM	50	48	14	13	0	0	14	13	146	120
Colorado	172	155	10.9%	114	102	58	53	NM	NM	111	100	NM	NM	NM	NM	22	21	0	0	0	0	0	0	36	32
Idaho	62	57	9.1%	59	56	3	2	0	0	59	56	1	0	0	0	1	0	0	0	0	0	0	0	3	1
Montana	NM	4	NM	NM	NM	2	2	0	0	NM	NM	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Nevada	500	428	16.7%	451	386	49	42	5	5	439	374	NM	17	NM	7	10	10	3	3	0	0	3	2	35	30
New Mexico	163	142	14.9%	138	123	25	19	30	27	108	96	9	7	0	0	9	7	0	0	0	0	0	0	16	12
Utah	253	247	2.5%	214	219	39	28	0	0	214	219	8	6	0	0	8	6	1	1	0	0	1	1	30	21
Wyoming	1	0	40.0%	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Contiguous	4,057	3,376	20.2%	2,693	2,274	1,364	1,102	63	59	2,607	2,200	343	253	18	14	326	239	NM	NM	NM	NM	203	178	836	685
California	3,956	3,319	19.2%	2,631	2,250	1,324	1,068	62	58	2,547	2,177	331	242	18	14	313	227	NM	NM	NM	NM	201	176	810	665
Oregon	84	44	89.2%	61	24	23	20	NM	NM	60	23	10	9	0	0	10	9	2	2	0	0	2	2	12	10
Washington	17	13	28.8%	0	0	17	13	0	0	0	0	3	2	0	0	3	2	NM	0	0	0	NM	0	14	11
Pacific Noncontiguous	118	113	3.9%	21	21	97	92	3	4	18	17	38	34	0	0	38	34	0	0	0	0	0	0	58	58
Alaska	0	0	48.7%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	117	113	3.8%	21	21	96	92	3	4	18	17	38	34	0	0	38	34	0	0	0	0	0	0	58	58
U.S. Total	9,639	7,805	23.5%	6,640	5,364	2,999	2,440	523	367	6,038	4,928	1,022	838	71	65	951	774	NM	256	NM	4	291	252	1,757	1,415

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 May 2018 and 2017 (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	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	1,739	1,293	34.5%	632	433	1,107	860	31	30	598	401	602	479	3	2	599	476	53	42	NM	0	53	42	455	342
Connecticut	238	178	33.7%	42	20	196	157	1	1	40	19	77	61	NM	0	77	61	10	8	NM	0	10	8	109	88
Maine	27	19	38.9%	NM	NM	22	16	0	0	NM	NM	7	6	0	0	7	6	0	0	0	0	0	0	15	10
Massachusetts	1,267	944	34.2%	510	354	756	590	8	7	500	345	467	377	3	2	464	374	39	30	0	0	39	30	253	185
New Hampshire	44	34	28.3%	0	0	44	34	0	0	0	0	13	10	0	0	13	10	3	2	0	0	3	2	28	22
Rhode Island	51	27	90.5%	15	7	35	20	0	0	15	7	19	10	0	0	19	10	0	0	0	0	0	0	17	10
Vermont	113	91	23.9%	59	47	53	44	22	21	37	27	19	15	0	0	19	15	1	1	0	0	1	1	33	28
Middle Atlantic	2,178	1,769	23.1%	650	517	1,527	1,253	38	34	531	412	764	641	73	64	692	577	91	79	8	7	83	72	753	603
New Jersey	1,273	1,067	19.3%	491	410	782	656	38	34	383	314	467	415	66	59	400	356	57	45	NM	NM	53	41	329	259
New York	706	528	33.5%	122	75	584	454	0	0	119	72	237	166	NM	NM	235	164	7	5	0	0	7	5	342	284
Pennsylvania	199	174	14.2%	37	32	162	142	0	0	29	26	61	59	NM	NM	57	57	27	29	NM	NM	23	26	82	60
East North Central	500	355	40.9%	311	219	189	136	110	64	197	154	119	85	NM	NM	116	84	11	8	1	0	10	8	63	44
Illinois	57	39	46.0%	23	20	34	19	1	1	21	19	24	12	NM	0	22	12	0	0	0	0	0	0	12	7
Indiana	190	141	34.6%	155	130	35	11	61	46	94	85	23	5	0	0	23	5	1	0	0	0	1	0	11	6
Michigan	86	47	84.7%	55	13	32	34	44	13	11	0	16	21	0	0	16	21	1	0	0	0	1	0	15	12
Ohio	118	99	20.0%	59	47	60	51	NM	NM	52	42	45	40	NM	NM	44	39	4	3	1	0	3	3	13	10
Wisconsin	47	29	65.2%	19	8	29	21	0	0	19	8	11	7	0	0	11	7	5	4	0	0	5	4	12	9
West North Central	774	391	97.9%	595	247	179	145	10	NM	584	242	91	75	1	1	90	75	6	4	0	0	6	4	83	66
Iowa	54	35	52.2%	7	NM	47	33	6	NM	NM	0	30	21	0	0	30	21	2	1	0	0	2	1	15	11
Kansas	12	7	73.1%	NM	1	9	6	NM	0	NM	1	3	2	0	0	3	2	0	0	0	0	0	0	6	4
Minnesota	570	240	137.8%	540	218	30	21	NM	NM	538	216	11	9	0	0	11	9	4	2	0	0	4	2	15	11
Missouri	126	100	25.3%	37	19	89	81	2	0	34	18	45	43	1	1	45	43	0	1	0	0	0	1	44	38
Nebraska	11	8	48.7%	8	6	3	2	0	0	8	6	1	1	0	0	1	1	0	0	0	0	0	0	2	1
North Dakota	0	0	0.9%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	1	1	3.9%	NM	NM	0	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	6,241	4,117	51.6%	5,336	3,416	905	701	1,166	563	4,110	2,799	325	288	59	54	266	234	124	98	NM	0	122	98	517	369
Delaware	66	57	17.2%	24	21	42	36	NM	NM	20	18	14	12	NM	NM	13	11	2	2	0	0	2	2	27	22
District of Columbia	27	20	37.1%	0	0	27	20	0	0	0	0	16	11	0	0	16	11	0	0	0	0	0	0	11	9
Florida	1,098	415	164.6%	931	299	167	116	758	267	169	30	48	41	NM	NM	46	40	6	4	NM	0	4	4	117	72
Georgia	1,005	943	6.6%	894	854	111	89	125	115	767	737	15	14	NM	NM	14	13	90	71	0	0	90	71	8	6
Maryland	508	404	25.6%	165	124	343	280	NM	NM	158	118	97	86	NM	NM	94	83	14	14	0	0	14	14	235	183
North Carolina	2,815	2,063	36.4%	2,731	1,978	83	85	160	124	2,519	1,807	99	103	52	48	47	55	3	3	0	0	3	3	34	27
South Carolina	325	64	405.5%	232	17	92	47	0	0	232	17	24	11	0	0	24	11	8	4	0	0	8	4	61	32
Virginia	393	148	166.5%	359	122	35	25	115	51	244	71	12	10	0	0	12	10	1	0	0	0	1	0	22	16
West Virginia	4	3	23.2%	0	0	4	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	3	2
East South Central	443	187	137.1%	385	135	58	52	37	12	343	121	41	38	NM	NM	38	36	5	0	NM	0	2	0	17	15
Alabama	153	74	106.3%	150	71	4	3	16	NM	133	66	3	2	0	0	3	2	0	0	0	0	0	0	1	1
Kentucky	33	16	102.2%	22	7	12	10	21	7	NM	0	7	6	0	0	7	6	0	0	0	0	0	0	5	4
Mississippi	145	8	NM	139	NM	7	4	0	0	139	NM	3	2	0	0	3	2	2	0	0	0	2	0	2	1
Tennessee	111	88	25.6%	75	53	36	35	0	0	70	51	29	28	NM	NM	26	26	3	0	NM	0	0	0	10	9
West South Central	1,754	1,090	60.9%	1,289	751	465	339	30	12	1,259	738	123	85	1	1	122	84	1	0	0	0	1	0	342	256
Arkansas	87	16	460.1%	80	12	7	4	NM	NM	79	11	2	2	0	0	2	2	1	0	0	0	1	0	4	2
Louisiana	94	85	10.8%	NM	0	93	85	NM	0	0	0	6	3	0	0	6	3	0	0	0	0	0	0	88	82
Oklahoma	29	13	123.4%	25	11	4	2	25	11	0	0	1	0	0	0	1	0	0	0	0	0	0	0	3	2
Texas	1,543	976	58.0%	1,183	728	360	248	NM	NM	1,179	727	114	79	1	1	113	78	0	0	0	0	0	0	247	170
Mountain	6,919	5,954	16.2%	5,374	4,675	1,545	1,279	442	342	4,888	4,293	449	412	43	39	406	373	79	74	1	1	78	73	1,061	833
Arizona	2,613	2,291	14.0%	1,768	1,579	844	712	321	230	1,439	1,341	212	200	9	8	203	192	61	58	0	0	61	58	580	461
Colorado	657	563	16.6%	418	355	238	209	NM	NM	408	348	97	90	7	6	90	84	1	1	0	0	1	1	148	124
Idaho	226	169	33.5%	215	164	10	5	0	0	215	164	2	1	0	0	2	1	0	0	0	0	0	0	8	4
Montana	23	9	146.2%	16	NM	7	6	0	0	16	NM	2	2	0	0	2	2	0	0	0	0	0	0	5	4
Nevada	1,852	1,539	20.3%	1,663	1,375	189	164	17	17	1,618	1,333	69	64	27	24	42	40	13	11	1	1	12	10	135	115
New Mexico	596	507	17.6%	492	427	105	80	102	95	389	332	37	30	0	0	37	30	0	0	0	0	0	0	68	49
Utah	951	874	8.8%	802	772	149	103	0	0	802	772	30	23	0	0	30	23	3	3	0	0	3	3	116	76
Wyoming	2	2	40.1%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Pacific Contiguous	14,774	12,031	22.8%	9,605	7,926	5,169	4,105	228	192	9,302	7,683	1,293	936	59	48	1,234	888	792	674	17	4	775	671	3,160	2,546
California	14,436	11,838	21.9%	9,398	7,841	5,038	3,997	225	189	9,098	7,600	1,252	900	59	48	1,193	852	786	668	17	4	769	665	3,075	2,480
Oregon	283	150	88.5%	207	85	76	65	NM	NM	204	82	32	29	0	0	32	29	6	6	0	0	6	6	38	30
Washington	55	43	29.4%	0	0	55	43	0	0	0	0	9	7	0	0	9	7	0	0	0	0	0	0	46	36
Pacific Noncontiguous	502	464	8.2%	82	69	420	395	14	18	68	51	162	144	0	0	162	144	1	1	0	0	1	1	256	250
Alaska	1	1	41.6%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Hawaii	501	463	8.2%	82	69	419	394	14	18	68	51	162	144	0	0	162	144	1	1	0	0	1	1	256	249
U.S. Total	35,823	27,651	29.6%	24,259	18,387	11,564	9,264	2,106	1,270	21,879	16,892	3,969	3,183	243	212	3,726	2,971	1,162	980	31	12	1,132	968	6,706	5,325

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, May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
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	24	1	NM	24	1	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	24	1	NM	24	1	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	133	103	28.8%	0	0	133	103	0	0	0	0
Arizona	107	87	23.3%	0	0	107	87	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	26	17	57.2%	0	0	26	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	294	298	-1.4%	0	0	294	298	0	0	0	0
California	294	298	-1.4%	0	0	294	298	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	451	402	12.2%	24	1	427	402	0	0	0	0

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

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

by State, by Sector, Year-to-Date through May 2018 and 2017 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 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	45	1	NM	45	1	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	45	1	NM	45	1	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	372	360	3.4%	0	0	372	360	0	0	0	0
Arizona	295	313	-5.5%	0	0	295	313	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	77	47	62.6%	0	0	77	47	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	925	874	5.8%	0	0	925	874	0	0	0	0
California	925	874	5.8%	0	0	925	874	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	1,342	1,235	8.7%	45	1	1,297	1,234	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, 2008-May 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,042,335	760,326	276,565	369	5,075
2009	934,683	695,615	234,077	317	4,674
2010	979,684	721,431	249,814	314	8,125
2011	934,938	689,316	239,541	347	5,735
2012	825,734	615,467	205,295	307	4,665
2013	860,729	638,327	217,219	513	4,670
2014	853,634	624,235	224,568	202	4,629
2015	739,594	539,506	195,927	163	3,999
2016	677,371	496,192	178,047	111	3,021
2017	663,479	485,100	175,500	96	2,783
Year 2016					
January	61,983	45,395	16,319	12	258
February	50,516	37,538	12,717	13	248
March	39,864	30,983	8,616	13	252
April	39,065	28,614	10,238	7	206
May	45,032	33,712	11,064	6	249
June	63,186	46,191	16,721	7	266
July	74,132	53,946	19,894	7	285
August	73,798	53,681	19,827	8	282
Sept	62,335	44,665	17,407	8	254
October	54,537	39,319	14,974	8	237
November	48,076	35,090	12,758	10	218
December	64,847	47,058	17,512	12	266
Year 2017					
January	63,394	46,763	16,354	12	265
February	47,878	35,521	12,112	10	235
March	48,700	35,717	12,738	9	235
April	44,216	31,501	12,507	5	202
May	50,843	37,410	13,209	6	219
June	58,884	43,796	14,854	7	226
July	69,775	52,038	17,494	8	234
August	65,801	49,033	16,527	8	233
Sept	54,702	39,435	15,035	8	225
October	50,129	36,279	13,610	7	233
November	50,864	35,840	14,788	7	229
December	58,292	41,767	16,270	10	246
Year 2018					
January	64,556	47,762	16,510	12	272
February	45,738	33,993	11,488	8	249
March	44,444	32,318	11,869	7	250
April	40,607	30,411	9,973	6	217
May	47,563	35,313	12,010	6	235
Year to Date					
2016	236,460	176,243	58,954	51	1,212
2017	255,032	186,913	66,921	41	1,156
2018	242,909	179,798	61,849	39	1,223
Rolling 12 Months Ending in May					
2017	695,943	506,862	186,014	102	2,965
2018	651,356	477,985	170,428	95	2,849

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-May 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	16,586	2,979	1,336	572	11,700
2017	15,302	2,800	1,350	511	10,641
Year 2016					
January	1,624	288	133	63	1,140
February	1,503	277	130	62	1,034
March	1,433	232	117	61	1,023
April	1,215	204	103	39	870
May	1,264	215	90	31	929
June	1,353	241	97	39	976
July	1,472	278	118	39	1,036
August	1,434	270	112	42	1,010
Sept	1,257	216	97	41	903
October	1,260	224	105	42	889
November	1,256	233	99	50	875
December	1,515	301	136	63	1,015
Year 2017					
January	1,510	290	140	55	1,025
February	1,228	208	124	44	852
March	1,357	225	146	49	937
April	1,216	212	103	35	866
May	1,221	206	101	34	880
June	1,208	219	82	39	868
July	1,225	264	104	45	813
August	1,247	264	110	40	832
Sept	1,155	216	94	39	805
October	1,278	225	101	36	916
November	1,320	262	102	42	913
December	1,339	209	143	52	935
Year 2018					
January	1,432	234	144	57	997
February	1,270	212	131	45	883
March	1,271	204	105	43	919
April	1,132	183	85	39	826
May	1,135	171	95	34	834
Year to Date					
2016	7,040	1,216	572	256	4,996
2017	6,531	1,142	613	218	4,560
2018	6,241	1,003	560	219	4,459
Rolling 12 Months Ending in May					
2017	16,078	2,905	1,377	533	11,264
2018	15,011	2,662	1,297	512	10,541

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-May 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	693,958	499,172	179,383	683	14,720
2017	678,780	487,900	176,849	607	13,424
Year 2016					
January	63,607	45,683	16,452	75	1,397
February	52,019	37,815	12,846	75	1,282
March	41,297	31,215	8,733	74	1,275
April	40,280	28,818	10,341	46	1,076
May	46,297	33,928	11,154	37	1,178
June	64,539	46,432	16,818	46	1,243
July	75,604	54,224	20,012	46	1,321
August	75,232	53,951	19,938	49	1,292
Sept	63,592	44,881	17,504	50	1,157
October	55,798	39,543	15,079	50	1,126
November	49,331	35,322	12,857	60	1,093
December	66,362	47,359	17,648	75	1,280
Year 2017					
January	64,904	47,054	16,494	66	1,290
February	49,106	35,729	12,235	54	1,087
March	50,057	35,942	12,884	58	1,172
April	45,432	31,713	12,611	40	1,068
May	52,064	37,616	13,310	40	1,098
June	60,092	44,015	14,937	46	1,094
July	71,001	52,302	17,598	53	1,047
August	67,048	49,297	16,637	49	1,065
Sept	55,857	39,651	15,129	47	1,030
October	51,406	36,504	13,711	43	1,149
November	52,184	36,102	14,890	50	1,142
December	59,631	41,975	16,413	62	1,181
Year 2018					
January	65,989	47,996	16,654	69	1,270
February	47,008	34,205	11,618	53	1,132
March	45,715	32,522	11,973	51	1,169
April	41,740	30,593	10,058	45	1,043
May	48,699	35,485	12,105	40	1,069
Year to Date					
2016	243,500	177,459	59,526	307	6,208
2017	261,563	188,055	67,534	259	5,716
2018	249,150	180,801	62,409	258	5,682
Rolling 12 Months Ending in May					
2017	712,021	509,767	187,391	635	14,228
2018	666,368	480,646	171,725	606	13,390

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 2016 and prior years are final. Values for 2017 and 2018 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, 2008-May 2018 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	22,405	16,137	5,624	108	536
2017	21,935	15,722	5,553	193	467
Year 2016					
January	2,472	1,727	685	12	48
February	2,230	1,474	698	12	46
March	1,495	1,096	355	4	40
April	1,421	1,055	320	8	38
May	1,662	1,212	386	8	56
June	1,693	1,275	364	7	48
July	2,287	1,711	514	11	52
August	2,231	1,644	537	10	39
Sept	1,620	1,128	441	7	44
October	1,629	1,156	423	7	43
November	1,672	1,249	372	11	40
December	1,995	1,410	530	12	43
Year 2017					
January	1,977	1,459	453	20	45
February	1,569	1,157	362	13	38
March	1,673	1,342	278	16	37
April	1,519	1,188	285	10	36
May	1,752	1,306	394	16	37
June	1,739	1,290	397	14	38
July	1,853	1,296	505	17	35
August	1,723	1,275	392	20	37
Sept	1,723	1,253	417	15	38
October	1,730	1,331	346	14	39
November	1,617	1,184	379	15	39
December	3,058	1,642	1,346	22	47
Year 2018					
January	8,977	4,320	4,531	58	NM
February	1,377	1,100	218	15	44
March	1,414	1,066	294	13	41
April	1,518	1,128	337	16	36
May	1,780	1,302	418	19	41
Year to Date					
2016	9,279	6,563	2,444	44	227
2017	8,491	6,451	1,772	75	194
2018	15,066	8,916	5,799	122	230
Rolling 12 Months Ending in May					
2017	21,618	16,025	4,952	139	503
2018	28,510	18,186	9,580	240	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-May 2018 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	2,277	68	245	245	1,719
2017	1,964	72	238	289	1,365
Year 2016					
January	231	12	24	43	153
February	316	17	39	27	233
March	178	3	28	7	140
April	174	3	16	17	138
May	198	3	18	14	163
June	181	6	13	14	149
July	185	2	12	28	142
August	153	3	15	18	117
Sept	143	3	14	9	117
October	174	3	18	9	144
November	167	4	14	35	113
December	178	9	33	26	110
Year 2017					
January	207	12	39	39	117
February	136	8	19	28	81
March	138	4	10	30	94
April	137	3	11	16	107
May	157	3	14	19	120
June	148	5	15	15	113
July	125	3	14	17	90
August	138	3	12	19	103
Sept	120	4	14	15	87
October	145	4	18	17	106
November	177	4	21	23	129
December	336	18	51	50	216
Year 2018					
January	644	49	120	139	NM
February	148	5	11	29	103
March	162	4	14	25	119
April	140	4	13	22	102
May	154	3	19	20	112
Year to Date					
2016	1,097	38	125	107	826
2017	775	30	93	132	519
2018	1,248	64	177	235	772
Rolling 12 Months Ending in May					
2017	1,955	60	213	270	1,412
2018	2,438	106	323	392	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-May 2018 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	24,682	16,205	5,869	352	2,255
2017	23,899	15,794	5,791	482	1,831
Year 2016					
January	2,702	1,739	709	55	200
February	2,546	1,491	737	38	279
March	1,673	1,099	383	12	180
April	1,594	1,058	337	24	175
May	1,860	1,216	403	22	219
June	1,875	1,281	377	21	197
July	2,472	1,713	527	38	194
August	2,384	1,647	552	28	156
Sept	1,763	1,131	455	16	161
October	1,803	1,159	441	16	187
November	1,838	1,254	386	46	153
December	2,173	1,419	563	37	154
Year 2017					
January	2,184	1,471	492	59	162
February	1,705	1,164	381	41	119
March	1,811	1,346	288	46	132
April	1,656	1,190	296	26	143
May	1,910	1,309	408	35	157
June	1,886	1,295	412	29	151
July	1,978	1,299	519	34	125
August	1,861	1,279	404	39	140
Sept	1,843	1,257	431	30	126
October	1,875	1,335	364	31	145
November	1,795	1,188	400	38	167
December	3,395	1,660	1,398	73	264
Year 2018					
January	9,621	4,369	4,651	197	NM
February	1,525	1,104	229	44	148
March	1,576	1,069	309	38	160
April	1,658	1,132	350	38	138
May	1,934	1,305	437	39	153
Year to Date					
2016	10,375	6,602	2,569	151	1,054
2017	9,266	6,481	1,864	207	713
2018	16,314	8,979	5,976	357	1,002
Rolling 12 Months Ending in May					
2017	23,573	16,085	5,165	409	1,915
2018	30,948	18,292	9,903	632	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 2016 and prior years are final. Values for 2017 and 2018 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, 2008-May 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	4,253	3,427	591	2	233
2017	3,349	2,731	415	3	200
Year 2016					
January	342	302	16	0	23
February	330	271	39	0	19
March	362	283	63	0	17
April	382	325	43	0	14
May	370	296	52	0	23
June	380	308	52	0	21
July	400	324	56	0	20
August	419	337	61	0	21
Sept	376	311	49	0	16
October	250	171	61	0	18
November	307	239	46	0	21
December	336	260	55	0	20
Year 2017					
January	355	301	40	0	13
February	263	217	32	0	13
March	273	214	40	0	18
April	153	110	29	0	13
May	320	264	38	0	18
June	341	282	40	0	19
July	332	271	39	0	23
August	282	226	38	0	19
Sept	262	209	37	0	16
October	221	171	35	0	15
November	267	234	13	0	19
December	280	231	35	0	14
Year 2018					
January	344	296	36	0	11
February	272	234	29	0	9
March	226	198	15	0	13
April	224	193	14	0	16
May	176	140	24	0	13
Year to Date					
2016	1,785	1,477	212	1	96
2017	1,363	1,107	179	1	76
2018	1,242	1,061	118	1	62
Rolling 12 Months Ending in May					
2017	3,831	3,057	559	2	213
2018	3,228	2,685	354	3	186

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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Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2008-May 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	1,099	6	113	9	971
2017	917	11	115	15	776
Year 2016					
January	86	1	11	2	73
February	95	0	10	2	83
March	85	0	11	2	72
April	73	1	7	0	66
May	96	0	7	0	89
June	100	0	9	0	91
July	101	1	9	1	91
August	101	1	10	0	91
Sept	75	1	10	0	64
October	92	1	11	0	80
November	99	0	10	0	89
December	95	1	10	2	83
Year 2017					
January	74	0	10	2	62
February	63	0	10	1	51
March	85	1	10	2	72
April	70	0	10	1	59
May	76	1	10	1	65
June	92	1	9	1	81
July	79	1	10	0	68
August	84	2	9	2	71
Sept	74	1	9	2	62
October	82	1	9	1	70
November	71	1	9	1	60
December	68	1	10	2	55
Year 2018					
January	69	1	9	2	56
February	61	1	8	2	51
March	57	1	9	1	46
April	72	1	10	1	61
May	60	1	6	0	53
Year to Date					
2016	435	2	45	6	382
2017	367	2	50	6	309
2018	319	5	42	5	267
Rolling 12 Months Ending in May					
2017	1,030	6	118	9	898
2018	870	14	107	14	734

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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Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-May 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	5,352	3,433	705	10	1,204
2017	4,266	2,742	530	17	976
Year 2016					
January	427	302	27	3	96
February	425	272	49	2	102
March	447	283	74	2	89
April	455	326	50	0	80
May	466	296	58	0	112
June	480	308	60	0	111
July	502	325	65	1	111
August	520	337	71	0	112
Sept	451	311	59	0	80
October	342	172	72	0	99
November	406	240	56	0	110
December	431	261	65	2	103
Year 2017					
January	428	301	50	2	75
February	325	218	42	1	65
March	358	215	50	2	90
April	222	110	39	1	72
May	396	265	48	1	83
June	433	283	49	1	100
July	412	272	49	0	91
August	367	228	47	2	89
Sept	337	211	46	2	78
October	302	172	44	2	85
November	338	235	22	1	79
December	348	233	44	2	69
Year 2018					
January	412	297	46	2	67
February	334	235	37	2	60
March	284	199	24	2	59
April	296	195	24	1	76
May	236	141	29	0	66
Year to Date					
2016	2,221	1,479	257	7	477
2017	1,730	1,109	229	7	385
2018	1,561	1,066	160	6	329
Rolling 12 Months Ending in May					
2017	4,861	3,063	677	11	1,111
2018	4,097	2,699	461	17	920

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, 2008-May 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	10,170,110	5,018,894	4,571,375	46,304	533,537
2017	9,440,777	4,752,790	4,118,433	44,765	524,788
Year 2016					
January	786,040	390,246	347,970	3,499	44,325
February	702,082	352,877	304,311	3,344	41,550
March	758,344	377,953	333,147	3,493	43,751
April	734,600	362,063	327,542	3,278	41,717
May	819,345	407,178	365,297	3,620	43,251
June	985,722	497,616	439,024	4,109	44,973
July	1,157,589	569,028	535,036	5,188	48,337
August	1,168,337	564,916	549,161	5,384	48,875
Sept	932,041	451,574	431,159	4,223	45,086
October	760,610	368,087	345,831	3,675	43,017
November	679,004	333,973	298,069	2,944	44,018
December	686,396	343,384	294,829	3,547	44,637
Year 2017					
January	663,708	329,690	283,243	3,857	46,918
February	573,451	283,558	245,447	3,445	41,001
March	693,489	349,742	296,454	3,831	43,463
April	640,489	326,706	268,102	3,158	42,523
May	723,289	374,999	302,060	3,443	42,787
June	870,696	438,191	384,666	3,771	44,068
July	1,091,770	554,104	486,788	4,170	46,707
August	1,049,281	530,700	469,818	4,173	44,590
Sept	876,462	440,975	390,611	3,897	40,978
October	793,981	397,778	351,044	3,715	41,445
November	679,061	337,407	294,822	3,524	43,308
December	785,101	388,941	345,378	3,781	47,000
Year 2018					
January	811,671	420,768	340,304	3,811	46,789
February	683,640	340,742	297,957	3,553	41,388
March	755,250	374,127	335,455	3,732	41,937
April	724,622	362,210	315,874	3,508	43,029
May	867,336	447,654	372,167	3,769	43,746
Year to Date					
2016	3,800,411	1,890,317	1,678,266	17,234	214,594
2017	3,294,426	1,664,695	1,395,306	17,733	216,692
2018	3,842,519	1,945,501	1,661,758	18,373	216,888
Rolling 12 Months Ending in May					
2017	9,664,125	4,793,272	4,288,415	46,803	535,635
2018	9,988,871	5,033,597	4,384,885	45,405	524,984

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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Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2008-May 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	1,151,866	38,096	356,905	80,943	675,922
2017	1,156,214	42,382	336,461	75,988	701,383
Year 2016					
January	102,014	3,434	32,304	7,160	59,117
February	92,405	3,264	29,348	6,354	53,439
March	95,161	3,002	30,664	6,298	55,197
April	88,634	2,286	27,002	6,104	53,241
May	92,471	2,888	29,069	6,096	54,418
June	96,618	3,649	30,019	6,907	56,043
July	102,867	3,805	32,099	8,142	58,821
August	105,025	3,723	33,436	8,377	59,489
Sept	95,330	2,973	29,581	6,850	55,926
October	92,360	2,740	27,138	6,125	56,357
November	90,321	2,812	27,191	5,773	54,544
December	98,660	3,520	29,054	6,758	59,328
Year 2017					
January	101,763	3,768	30,660	7,653	59,682
February	91,904	3,190	26,545	6,508	55,660
March	98,721	3,441	29,333	6,528	59,418
April	90,079	3,049	26,033	5,446	55,552
May	90,682	2,960	26,132	5,562	56,028
June	93,506	3,422	27,809	6,089	56,187
July	100,187	4,092	29,292	6,547	60,257
August	97,901	3,982	29,182	6,392	58,346
Sept	93,871	3,664	26,818	5,998	57,391
October	95,459	3,602	27,375	6,139	58,343
November	95,225	3,299	27,285	6,155	58,485
December	106,914	3,913	29,997	6,971	66,034
Year 2018					
January	107,009	3,626	30,197	7,559	65,626
February	95,990	3,327	28,006	6,727	57,930
March	101,580	3,407	29,538	6,587	62,047
April	95,206	3,041	26,992	6,163	59,010
May	94,606	3,170	27,574	5,695	58,167
Year to Date					
2016	470,685	14,874	148,387	32,011	275,413
2017	473,150	16,409	138,703	31,697	286,342
2018	494,391	16,573	142,308	32,731	302,780
Rolling 12 Months Ending in May					
2017	1,154,331	39,632	347,221	80,628	686,850
2018	1,177,455	42,546	340,066	77,022	717,821

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 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-May 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	11,321,975	5,056,990	4,928,280	127,246	1,209,459
2017	10,596,991	4,795,172	4,454,894	120,753	1,226,171
Year 2016					
January	888,054	393,680	380,273	10,658	103,442
February	794,487	356,141	333,659	9,697	94,990
March	853,505	380,955	363,811	9,791	98,949
April	823,234	364,349	354,544	9,383	94,958
May	911,816	410,066	394,365	9,716	97,669
June	1,082,340	501,265	469,043	11,016	101,016
July	1,260,455	572,833	567,135	13,330	107,158
August	1,273,362	568,640	582,596	13,761	108,365
Sept	1,027,371	454,547	460,740	11,073	101,012
October	852,970	370,827	372,969	9,800	99,374
November	769,325	336,785	325,260	8,716	98,563
December	785,056	346,904	323,883	10,305	103,965
Year 2017					
January	765,471	333,459	313,903	11,509	106,600
February	665,355	286,748	271,992	9,953	96,662
March	792,211	353,183	325,787	10,359	102,882
April	730,568	329,755	294,135	8,603	98,075
May	813,971	377,959	328,192	9,005	98,815
June	964,202	441,612	412,475	9,860	100,255
July	1,191,957	558,196	516,079	10,718	106,964
August	1,147,182	534,682	499,000	10,564	102,936
Sept	970,332	444,639	417,429	9,895	98,369
October	889,440	401,379	378,419	9,854	99,788
November	774,286	340,707	322,107	9,680	101,792
December	892,015	392,854	375,375	10,752	113,034
Year 2018					
January	918,680	424,394	370,502	11,369	112,415
February	779,630	344,070	325,963	10,280	99,318
March	856,830	377,534	364,993	10,319	103,983
April	819,828	365,251	342,866	9,671	102,039
May	961,943	450,825	399,741	9,464	101,913
Year to Date					
2016	4,271,096	1,905,190	1,826,653	49,245	490,008
2017	3,767,576	1,681,103	1,534,009	49,430	503,034
2018	4,336,910	1,962,074	1,804,065	51,104	519,668
Rolling 12 Months Ending in May					
2017	10,818,456	4,832,903	4,635,636	127,431	1,222,485
2018	11,166,325	5,076,143	4,724,950	122,427	1,242,805

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2008-May 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	273,557	24,280	224,993	20,445	3,839
2017	267,266	25,169	219,253	18,957	3,888
Year 2016					
January	22,612	2,036	18,360	1,865	351
February	21,859	2,088	17,744	1,705	323
March	23,337	2,187	19,021	1,786	343
April	22,556	2,080	18,805	1,340	331
May	23,744	2,120	19,554	1,717	354
June	22,668	1,896	18,683	1,768	320
July	23,052	1,950	19,047	1,734	321
August	23,038	2,011	18,978	1,726	324
Sept	21,757	2,010	17,792	1,678	278
October	20,377	1,922	16,583	1,610	263
November	24,047	1,941	20,036	1,762	307
December	24,510	2,041	20,392	1,753	324
Year 2017					
January	23,634	2,207	19,369	1,687	371
February	21,208	2,062	17,332	1,463	351
March	23,157	2,249	18,842	1,672	394
April	21,387	2,091	17,433	1,516	348
May	21,919	2,234	17,939	1,460	286
June	21,978	1,939	18,174	1,547	318
July	22,785	1,979	18,962	1,583	261
August	22,973	2,081	18,999	1,598	296
Sept	21,810	1,990	17,980	1,560	280
October	21,579	2,019	17,839	1,410	311
November	21,839	2,108	17,726	1,671	333
December	22,997	2,209	18,658	1,791	339
Year 2018					
January	23,115	2,263	18,857	1,672	324
February	21,740	2,089	17,786	1,536	329
March	23,194	2,250	18,874	1,723	348
April	22,126	2,055	18,108	1,629	334
May	21,747	1,885	18,086	1,494	282
Year to Date					
2016	114,108	10,511	93,483	8,413	1,701
2017	111,305	10,842	90,915	7,798	1,750
2018	111,922	10,542	91,710	8,054	1,617
Rolling 12 Months Ending in May					
2017	270,754	24,612	222,425	19,830	3,887
2018	267,884	24,868	220,048	19,213	3,755

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 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2008-May 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	4,163	3	2,339	1,034	788
2017	4,870	6	2,836	1,099	928
Year 2016					
January	352	0	202	84	66
February	340	0	189	86	65
March	358	0	196	86	75
April	355	0	201	88	66
May	356	0	194	90	72
June	344	0	193	85	66
July	335	0	181	87	66
August	332	0	181	82	68
Sept	327	0	187	81	59
October	301	0	157	87	56
November	378	0	227	86	66
December	387	0	230	91	65
Year 2017					
January	461	0	292	94	75
February	437	0	274	92	70
March	482	1	313	92	76
April	409	0	222	107	80
May	292	0	133	85	73
June	378	1	190	89	98
July	365	1	209	85	71
August	409	1	214	98	96
Sept	360	1	179	98	82
October	396	1	249	93	54
November	428	0	278	85	65
December	452	0	282	81	89
Year 2018					
January	465	1	330	65	69
February	412	0	285	58	69
March	474	0	311	84	78
April	432	1	259	85	88
May	323	1	179	71	72
Year to Date					
2016	1,760	1	982	434	343
2017	2,082	2	1,235	471	374
2018	2,106	3	1,363	363	377
Rolling 12 Months Ending in May					
2017	4,484	4	2,592	1,070	818
2018	4,895	7	2,964	992	932

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 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-May 2018 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	277,720	24,283	227,332	21,479	4,626
2017	272,136	25,175	222,089	20,056	4,816
Year 2016					
January	22,964	2,036	18,562	1,949	417
February	22,200	2,088	17,933	1,791	388
March	23,694	2,187	19,217	1,873	417
April	22,911	2,081	19,005	1,428	397
May	24,100	2,120	19,748	1,807	425
June	23,012	1,896	18,876	1,853	386
July	23,387	1,950	19,229	1,822	386
August	23,370	2,011	19,159	1,808	392
Sept	22,084	2,010	17,978	1,759	337
October	20,678	1,922	16,740	1,697	319
November	24,425	1,941	20,263	1,848	373
December	24,897	2,042	20,622	1,845	388
Year 2017					
January	24,095	2,207	19,662	1,781	445
February	21,645	2,062	17,607	1,555	422
March	23,639	2,250	19,155	1,764	470
April	21,796	2,091	17,655	1,623	428
May	22,211	2,235	18,072	1,546	359
June	22,356	1,940	18,364	1,636	415
July	23,150	1,980	19,172	1,667	332
August	23,382	2,082	19,213	1,696	392
Sept	22,170	1,991	18,159	1,658	362
October	21,975	2,020	18,088	1,503	365
November	22,267	2,109	18,004	1,756	398
December	23,449	2,209	18,940	1,872	428
Year 2018					
January	23,580	2,264	19,187	1,737	393
February	22,153	2,090	18,071	1,594	399
March	23,668	2,250	19,185	1,807	426
April	22,558	2,056	18,366	1,714	422
May	22,070	1,886	18,264	1,565	355
Year to Date					
2016	115,869	10,512	94,465	8,847	2,044
2017	113,387	10,844	92,150	8,269	2,123
2018	114,029	10,545	93,073	8,417	1,994
Rolling 12 Months Ending in May					
2017	275,238	24,616	225,017	20,900	4,705
2018	272,779	24,875	223,012	20,205	4,687

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.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2008-May 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	16,994	464	13,953	2,566	11
2017	16,081	422	13,203	2,448	8
Year 2016					
January	1,398	34	1,161	202	1
February	1,283	27	1,081	174	1
March	1,344	41	1,091	211	1
April	1,413	40	1,153	219	1
May	1,463	44	1,205	214	1
June	1,468	40	1,202	225	1
July	1,486	37	1,212	236	1
August	1,509	42	1,233	233	1
Sept	1,397	43	1,142	210	1
October	1,378	37	1,127	213	1
November	1,379	39	1,127	212	1
December	1,476	38	1,220	218	0
Year 2017					
January	1,412	35	1,179	198	0
February	1,223	19	1,020	185	0
March	1,308	36	1,075	197	0
April	1,270	35	1,033	201	0
May	1,386	36	1,130	219	1
June	1,399	38	1,160	199	1
July	1,416	41	1,156	218	1
August	1,428	47	1,166	215	1
Sept	1,299	41	1,057	200	1
October	1,296	33	1,051	210	1
November	1,289	30	1,059	200	1
December	1,356	32	1,117	206	1
Year 2018					
January	1,350	28	1,132	190	0
February	1,278	26	1,076	175	1
March	1,377	40	1,138	198	1
April	1,342	38	1,109	194	1
May	1,398	43	1,143	212	1
Year to Date					
2016	6,901	186	5,691	1,020	4
2017	6,599	160	5,437	1,000	2
2018	6,745	174	5,598	969	4
Rolling 12 Months Ending in May					
2017	16,692	438	13,700	2,546	8
2018	16,228	436	13,364	2,417	10

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.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2008-May 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	2,232	0	885	1,134	213
2017	1,984	0	814	962	208
Year 2016					
January	191	0	80	92	18
February	189	0	87	88	14
March	219	0	96	104	19
April	181	0	65	98	18
May	182	0	70	96	17
June	172	0	73	81	18
July	186	0	74	96	16
August	191	0	71	96	23
Sept	176	0	64	95	18
October	179	0	65	95	19
November	180	0	68	94	17
December	185	0	71	98	16
Year 2017					
January	191	0	72	99	20
February	160	0	64	84	12
March	176	0	75	82	19
April	161	0	69	74	18
May	171	0	69	84	18
June	172	0	68	88	16
July	173	0	72	84	17
August	183	0	77	84	22
Sept	143	0	63	63	17
October	143	0	59	66	18
November	155	0	64	76	15
December	157	0	63	77	17
Year 2018					
January	170	0	64	90	17
February	151	0	60	80	12
March	155	0	64	79	12
April	147	0	54	77	16
May	161	0	59	86	16
Year to Date					
2016	963	0	399	479	86
2017	858	0	348	423	87
2018	785	0	301	411	73
Rolling 12 Months Ending in May					
2017	2,127	0	835	1,078	214
2018	1,910	0	766	950	194

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 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-May 2018 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	19,226	464	14,838	3,700	224
2017	18,065	422	14,017	3,410	216
Year 2016					
January	1,589	34	1,241	295	19
February	1,472	27	1,167	262	15
March	1,563	41	1,188	315	19
April	1,594	40	1,218	317	18
May	1,646	44	1,274	310	18
June	1,640	40	1,275	305	19
July	1,673	37	1,286	332	17
August	1,700	42	1,304	330	25
Sept	1,573	43	1,206	305	19
October	1,557	37	1,192	308	20
November	1,559	39	1,195	306	18
December	1,661	38	1,291	316	16
Year 2017					
January	1,604	35	1,251	298	20
February	1,383	19	1,084	269	12
March	1,483	36	1,150	279	19
April	1,431	35	1,102	276	18
May	1,556	36	1,198	303	19
June	1,570	38	1,228	287	17
July	1,589	41	1,228	302	18
August	1,612	47	1,243	299	23
Sept	1,441	41	1,120	262	18
October	1,439	33	1,110	276	19
November	1,444	30	1,123	276	15
December	1,513	32	1,180	283	18
Year 2018					
January	1,521	28	1,196	279	17
February	1,429	26	1,136	255	13
March	1,532	40	1,202	277	13
April	1,489	38	1,163	271	17
May	1,559	43	1,202	297	17
Year to Date					
2016	7,864	186	6,089	1,499	90
2017	7,457	160	5,785	1,423	89
2018	7,530	174	5,899	1,380	77
Rolling 12 Months Ending in May					
2017	18,820	438	14,534	3,625	223
2018	18,138	436	14,131	3,366	204

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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Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2008-May 2018 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	359,983	41,036	149,516	473	168,959
2017	380,237	43,952	165,861	460	169,964
Year 2016					
January	31,835	4,082	13,250	40	14,463
February	30,721	3,797	13,249	41	13,634
March	30,380	3,388	13,073	23	13,897
April	25,323	2,547	10,177	31	12,569
May	26,827	2,497	10,522	14	13,794
June	29,961	3,835	11,762	59	14,305
July	32,167	4,067	13,230	51	14,818
August	33,526	4,113	14,559	72	14,782
Sept	30,502	3,489	13,145	51	13,817
October	27,598	2,574	11,139	29	13,857
November	29,176	2,597	12,211	20	14,349
December	31,967	4,051	13,200	42	14,674
Year 2017					
January	31,706	3,909	13,533	56	14,208
February	29,797	3,477	12,653	50	13,617
March	32,848	4,094	14,372	26	14,356
April	29,061	3,047	12,331	34	13,650
May	30,151	3,584	12,937	43	13,587
June	31,698	3,694	13,829	38	14,138
July	34,231	3,839	15,149	41	15,202
August	34,458	3,818	15,424	41	15,175
Sept	29,493	3,091	13,170	15	13,216
October	32,025	3,893	14,392	33	13,707
November	31,331	3,512	13,877	41	13,901
December	33,438	3,995	14,193	43	15,207
Year 2018					
January	33,483	4,263	14,402	63	14,755
February	29,907	3,562	12,743	42	13,560
March	31,280	4,481	12,293	36	14,470
April	27,083	2,605	10,829	16	13,633
May	31,698	3,786	12,893	32	14,988
Year to Date					
2016	145,085	16,310	60,270	148	68,357
2017	153,563	18,111	65,826	208	69,418
2018	153,452	18,697	63,160	189	71,405
Rolling 12 Months Ending in May					
2017	368,460	42,837	155,071	533	170,019
2018	380,125	44,538	163,195	440	171,951

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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Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2008-May 2018 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	969,841	10,950	22,905	4,520	931,465
2017	978,290	11,830	25,325	4,522	936,612
Year 2016					
January	84,483	1,087	2,270	460	80,665
February	79,157	1,150	2,299	415	75,293
March	79,225	1,084	1,926	288	75,928
April	74,954	732	1,780	353	72,089
May	78,419	949	1,753	280	75,437
June	79,180	707	1,832	415	76,225
July	80,796	943	1,826	384	77,644
August	81,164	931	1,794	442	77,998
Sept	75,314	513	1,918	395	72,488
October	76,347	508	1,450	347	74,041
November	80,391	1,132	1,898	340	77,021
December	100,410	1,214	2,159	401	96,636
Year 2017					
January	85,579	1,076	2,005	525	81,973
February	79,087	985	1,792	430	75,881
March	81,473	1,068	2,428	299	77,678
April	77,440	879	2,063	295	74,203
May	78,630	887	2,209	301	75,234
June	80,934	1,051	2,297	322	77,264
July	83,942	1,105	2,079	355	80,403
August	85,888	1,140	2,000	365	82,383
Sept	77,237	979	1,998	233	74,027
October	79,472	933	2,035	402	76,102
November	81,151	782	2,106	473	77,790
December	87,457	946	2,314	524	83,673
Year 2018					
January	83,887	872	2,159	454	80,402
February	78,816	777	2,229	474	75,336
March	81,307	979	2,139	493	77,696
April	80,524	884	1,924	339	77,377
May	80,630	948	1,846	319	77,516
Year to Date					
2016	396,238	5,002	10,028	1,796	379,412
2017	402,208	4,894	10,496	1,850	384,968
2018	405,164	4,460	10,297	2,079	388,329
Rolling 12 Months Ending in May					
2017	975,811	10,842	23,373	4,574	937,022
2018	981,245	11,395	25,126	4,752	939,973

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 2.7.C. Wood / Wood Waste Biomass: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2008-May 2018 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2008	1,262,675	29,150	148,198	1,410	1,083,917
2009	1,136,729	29,565	150,481	1,408	955,276
2010	1,225,571	40,167	155,429	1,338	1,028,637
2011	1,240,937	35,474	146,684	1,504	1,057,275
2012	1,273,500	32,723	157,468	1,427	1,081,882
2013	1,317,560	43,363	164,063	1,486	1,108,647
2014	1,377,629	54,478	196,775	4,727	1,121,648
2015	1,350,612	53,269	190,587	4,219	1,102,537
2016	1,329,824	51,986	172,421	4,993	1,100,424
2017	1,358,526	55,782	191,186	4,982	1,106,576
Year 2016					
January	116,318	5,169	15,520	500	95,128
February	109,878	4,947	15,548	456	88,928
March	109,606	4,471	14,999	311	89,825
April	100,276	3,279	11,956	384	84,657
May	105,246	3,446	12,275	294	89,231
June	109,140	4,542	13,594	474	90,530
July	112,964	5,010	15,056	435	92,462
August	114,690	5,044	16,353	514	92,780
Sept	105,816	4,002	15,063	446	86,306
October	103,946	3,083	12,589	376	87,898
November	109,567	3,729	14,108	360	91,370
December	132,377	5,265	15,360	443	111,310
Year 2017					
January	117,285	4,985	15,538	581	96,181
February	108,885	4,462	14,445	480	89,497
March	114,321	5,162	16,800	325	92,034
April	106,501	3,926	14,394	328	87,853
May	108,781	4,471	15,145	344	88,820
June	112,633	4,745	16,127	360	91,401
July	118,173	4,944	17,228	395	95,606
August	120,346	4,957	17,424	406	97,558
Sept	106,730	4,070	15,167	249	87,244
October	111,497	4,826	16,427	435	89,810
November	112,482	4,294	15,983	514	91,691
December	120,895	4,941	16,507	566	98,880
Year 2018					
January	117,370	5,135	16,561	517	95,158
February	108,724	4,339	14,972	516	88,896
March	112,587	5,460	14,432	528	92,166
April	107,607	3,488	12,753	356	91,010
May	112,327	4,734	14,739	351	92,504
Year to Date					
2016	541,323	21,312	70,298	1,944	447,769
2017	555,771	23,006	76,322	2,058	454,386
2018	558,616	23,157	73,457	2,268	459,734
Rolling 12 Months Ending in May					
2017	1,344,272	53,680	178,444	5,107	1,107,041
2018	1,361,371	55,934	188,321	5,192	1,111,924

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.8.A. Consumption of Coal for Electricity Generation by State, by Sector, May 2018 and May 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	2	35	-94.0%	1	2	1	33	0	0	NM	NM
Connecticut	0	3	-100.0%	0	0	0	3	0	0	0	0
Maine	1	1	22.0%	0	0	1	1	0	0	NM	NM
Massachusetts	0	29	-100.0%	0	0	0	29	0	0	0	0
New Hampshire	1	2	-56.0%	1	2	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	1,788	1,934	-7.5%	0	0	1,780	1,921	0	0	8	13
New Jersey	26	35	-26.0%	0	0	26	35	0	0	0	0
New York	1	34	-98.0%	0	0	1	26	0	0	0	8
Pennsylvania	1,762	1,865	-5.5%	0	0	1,753	1,860	0	0	8	6
East North Central	10,532	10,473	0.6%	6,407	6,579	4,059	3,838	1	1	64	54
Illinois	2,795	2,395	17.0%	177	168	2,574	2,186	1	1	43	40
Indiana	2,804	2,396	17.0%	2,655	2,348	148	48	1	0	0	0
Michigan	1,769	2,210	-20.0%	1,742	2,190	19	18	0	0	9	2
Ohio	1,750	2,181	-20.0%	432	594	1,318	1,586	0	0	0	NM
Wisconsin	1,414	1,291	9.5%	1,402	1,280	0	0	0	0	12	12
West North Central	8,987	8,798	2.2%	8,888	8,702	0	0	1	2	97	95
Iowa	1,303	1,265	3.0%	1,257	1,216	0	0	1	1	45	47
Kansas	1,082	784	38.0%	1,082	784	0	0	0	0	0	0
Minnesota	959	959	0.0%	941	943	0	0	0	0	18	16
Missouri	2,944	3,369	-13.0%	2,944	3,369	0	0	0	0	0	0
Nebraska	1,033	809	28.0%	1,001	780	0	0	0	0	32	29
North Dakota	1,517	1,494	1.5%	1,514	1,492	0	0	0	0	3	NM
South Dakota	150	117	28.0%	150	117	0	0	0	0	0	0
South Atlantic	7,051	7,737	-8.9%	5,950	7,014	1,077	707	0	1	23	15
Delaware	4	7	-34.0%	0	0	4	7	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,161	1,454	-20.0%	1,157	1,452	3	0	0	0	1	3
Georgia	1,226	1,591	-23.0%	1,224	1,588	0	0	0	0	2	3
Maryland	504	313	61.0%	0	0	503	312	0	0	1	1
North Carolina	1,051	1,000	5.1%	1,045	994	3	2	0	1	2	3
South Carolina	688	697	-1.2%	688	697	0	0	0	0	0	0
Virginia	406	461	-12.0%	351	439	40	17	0	0	15	5
West Virginia	2,011	2,214	-9.2%	1,486	1,844	524	369	0	0	0	0
East South Central	4,929	5,287	-6.8%	4,612	4,992	303	283	0	0	15	13
Alabama	1,273	1,311	-2.9%	1,272	1,311	0	0	0	0	1	1
Kentucky	2,284	2,408	-5.1%	2,284	2,408	0	0	0	0	0	0
Mississippi	478	367	30.0%	176	85	303	283	0	0	0	0
Tennessee	893	1,200	-26.0%	880	1,188	0	0	0	0	13	12
West South Central	8,606	10,211	-16.0%	4,412	4,448	4,182	5,749	0	0	12	15
Arkansas	1,198	945	27.0%	954	894	244	51	0	0	1	1
Louisiana	606	865	-30.0%	372	571	234	294	0	0	0	0
Oklahoma	677	631	7.2%	593	538	72	79	0	0	12	14
Texas	6,125	7,770	-21.0%	2,493	2,445	3,632	5,325	0	0	0	0
Mountain	5,583	6,263	-11.0%	5,023	5,654	550	599	0	0	9	10
Arizona	1,185	1,196	-0.9%	1,185	1,196	0	0	0	0	0	0
Colorado	1,039	1,290	-19.0%	1,039	1,290	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	435	508	-14.0%	6	20	429	488	0	0	0	0
Nevada	67	41	64.0%	30	1	37	40	0	0	0	0
New Mexico	497	622	-20.0%	497	622	0	0	0	0	0	0
Utah	826	925	-11.0%	789	885	37	37	0	0	0	3
Wyoming	1,533	1,680	-8.8%	1,478	1,639	47	34	0	0	8	7
Pacific Contiguous	5	4	30.0%	0	0	0	0	0	0	5	4
California	5	3	59.0%	0	0	0	0	0	0	5	3
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	1	-77.0%	0	0	0	0	0	0	0	1
Pacific Noncontiguous	79	101	-21.0%	NM	NM	57	80	3	2	0	0
Alaska	35	31	14.0%	NM	NM	13	NM	3	2	0	0
Hawaii	44	70	-37.0%	0	0	44	70	0	0	0	0
U.S. Total	47,563	50,843	-6.5%	35,313	37,410	12,010	13,209	6	6	235	219

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

Table 2.8.B. Consumption of Coal for Electricity Generation by State, by Sector, Year-to-Date through May 2018 and May 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	353	672	-47.0%	200	49	152	622	0	0	NM	NM
Connecticut	146	57	157.0%	0	0	146	57	0	0	0	0
Maine	7	7	-0.1%	0	0	6	6	0	0	NM	NM
Massachusetts	0	559	-100.0%	0	0	0	559	0	0	0	0
New Hampshire	200	49	306.0%	200	49	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	10,245	9,699	5.6%	0	0	10,205	9,625	0	0	40	74
New Jersey	220	207	6.3%	0	0	220	207	0	0	0	0
New York	158	160	-1.2%	0	0	154	117	0	0	4	43
Pennsylvania	9,867	9,332	5.7%	0	0	9,830	9,301	0	0	37	32
East North Central	57,806	57,022	1.4%	35,414	34,620	22,052	22,101	9	6	331	295
Illinois	14,368	13,461	6.7%	872	913	13,262	12,327	5	5	228	217
Indiana	15,452	13,573	14.0%	14,663	13,154	785	417	4	2	0	0
Michigan	9,457	10,231	-7.6%	9,338	10,131	95	93	0	0	24	7
Ohio	10,602	12,147	-13.0%	2,691	2,882	7,910	9,264	0	0	1	1
Wisconsin	7,927	7,611	4.2%	7,849	7,540	0	0	0	0	78	71
West North Central	46,608	44,474	4.8%	46,075	43,970	0	0	9	14	523	490
Iowa	5,764	5,268	9.4%	5,545	5,066	0	0	8	10	211	192
Kansas	5,066	4,266	19.0%	5,066	4,266	0	0	0	0	0	0
Minnesota	5,280	5,088	3.8%	5,150	4,954	0	0	0	1	130	132
Missouri	14,860	15,940	-6.8%	14,858	15,936	0	0	1	4	0	0
Nebraska	5,724	4,827	19.0%	5,559	4,675	0	0	0	0	165	152
North Dakota	9,240	8,577	7.7%	9,224	8,564	0	0	0	0	16	13
South Dakota	674	509	32.0%	674	509	0	0	0	0	0	0
South Atlantic	33,179	35,508	-6.6%	28,143	32,042	4,909	3,375	5	7	122	85
Delaware	53	40	35.0%	0	0	53	40	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,930	6,905	-29.0%	4,918	6,894	3	0	0	0	9	11
Georgia	5,623	6,287	-11.0%	5,607	6,274	0	0	0	0	16	13
Maryland	2,289	1,073	113.0%	0	0	2,281	1,066	0	0	8	8
North Carolina	5,077	4,890	3.8%	5,046	4,853	14	16	4	5	13	16
South Carolina	2,983	3,085	-3.3%	2,981	3,083	0	0	0	0	2	2
Virginia	2,109	2,214	-4.7%	1,901	2,096	133	81	1	2	74	35
West Virginia	10,115	11,014	-8.2%	7,690	8,842	2,425	2,173	0	0	0	0
East South Central	23,020	24,352	-5.5%	21,774	23,108	1,175	1,177	0	0	70	67
Alabama	6,612	6,348	4.2%	6,604	6,342	0	0	0	0	8	5
Kentucky	10,416	11,252	-7.4%	10,416	11,252	0	0	0	0	0	0
Mississippi	1,589	1,646	-3.5%	413	469	1,175	1,177	0	0	0	0
Tennessee	4,404	5,106	-14.0%	4,341	5,045	0	0	0	0	63	61
West South Central	39,111	47,130	-17.0%	20,689	21,844	18,362	25,210	0	0	60	76
Arkansas	5,676	5,535	2.5%	4,600	5,141	1,072	390	0	0	4	4
Louisiana	2,577	3,312	-22.0%	1,583	1,908	994	1,404	0	0	0	0
Oklahoma	3,684	4,002	-8.0%	3,261	3,590	366	339	0	0	56	73
Texas	27,175	34,282	-21.0%	11,246	11,205	15,929	23,077	0	0	0	0
Mountain	31,591	34,816	-9.3%	27,406	30,851	4,138	3,923	0	0	47	42
Arizona	6,283	6,177	1.7%	6,283	6,177	0	0	0	0	0	0
Colorado	5,719	6,640	-14.0%	5,718	6,639	0	0	0	0	2	1
Idaho	3	2	9.7%	0	0	0	0	0	0	3	2
Montana	3,641	3,434	6.0%	71	112	3,569	3,321	0	0	1	1
Nevada	226	377	-40.0%	30	153	196	224	0	0	0	0
New Mexico	2,170	4,417	-51.0%	2,170	4,417	0	0	0	0	0	0
Utah	4,320	4,426	-2.4%	4,155	4,261	165	162	0	0	0	3
Wyoming	9,229	9,344	-1.2%	8,979	9,093	208	216	0	0	42	35
Pacific Contiguous	526	906	-42.0%	0	334	499	546	0	0	27	26
California	24	23	7.0%	0	0	0	0	0	0	24	23
Oregon	0	334	-100.0%	0	334	0	0	0	0	0	0
Washington	502	549	-8.5%	0	0	499	546	0	0	3	3
Pacific Noncontiguous	470	452	4.0%	96	96	358	343	16	14	0	0
Alaska	176	163	8.2%	96	96	64	53	16	14	0	0
Hawaii	294	289	1.6%	0	0	294	289	0	0	0	0
U.S. Total	242,909	255,032	-4.8%	179,798	186,913	61,849	66,921	39	41	1,223	1,156

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 2.9.A. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, May 2018 and May 2017 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	27	76	-64.0%	NM	16	NM	56	2	2	1	1
Connecticut	NM	9	NM	NM	1	NM	8	NM	NM	0	0
Maine	2	6	-60.0%	0	0	NM	5	0	0	1	0
Massachusetts	NM	48	NM	NM	4	NM	42	NM	1	0	0
New Hampshire	3	10	-67.0%	NM	9	NM	NM	1	1	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	NM	2	NM	NM	2	0	0	0	0	0	0
Middle Atlantic	151	80	88.0%	NM	25	113	49	NM	NM	4	4
New Jersey	31	NM	NM	0	NM	31	NM	0	0	0	0
New York	86	39	122.0%	NM	25	51	10	NM	NM	3	3
Pennsylvania	34	39	-13.0%	0	0	31	36	1	1	NM	NM
East North Central	107	95	13.0%	52	58	52	35	1	0	2	1
Illinois	9	10	-9.2%	NM	1	8	9	NM	NM	0	0
Indiana	23	23	0.5%	21	22	0	0	0	0	1	1
Michigan	19	19	-2.5%	18	19	0	0	1	0	NM	0
Ohio	52	35	48.0%	NM	8	44	26	0	0	0	0
Wisconsin	4	8	-45.0%	4	7	0	0	0	0	NM	NM
West North Central	56	63	-11.0%	53	62	NM	NM	0	0	0	0
Iowa	13	22	-37.0%	13	21	0	0	0	0	0	0
Kansas	10	17	-38.0%	10	17	0	0	0	0	0	0
Minnesota	8	6	42.0%	6	4	NM	NM	0	0	0	0
Missouri	12	10	24.0%	12	10	NM	NM	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	9	7	29.0%	9	7	0	0	0	0	0	0
South Dakota	2	NM	NM	2	NM	0	0	NM	NM	0	0
South Atlantic	284	310	-8.3%	228	253	37	41	13	10	6	6
Delaware	NM	NM	NM	0	0	NM	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	74	83	-12.0%	70	80	2	1	0	0	NM	NM
Georgia	17	23	-25.0%	13	19	NM	NM	0	0	NM	NM
Maryland	16	24	-31.0%	1	0	NM	23	0	0	0	0
North Carolina	35	34	4.7%	34	32	NM	NM	0	0	NM	NM
South Carolina	18	12	43.0%	17	12	0	0	NM	0	1	0
Virginia	93	109	-15.0%	68	90	11	9	13	10	NM	NM
West Virginia	27	20	38.0%	25	20	2	0	0	0	0	0
East South Central	36	46	-21.0%	34	43	NM	0	0	0	NM	NM
Alabama	NM	NM	NM	2	4	NM	0	0	0	NM	NM
Kentucky	14	18	-21.0%	14	18	0	0	0	0	0	0
Mississippi	2	3	-47.0%	2	2	0	0	0	0	0	1
Tennessee	17	19	-12.0%	17	19	0	0	0	0	0	0
West South Central	24	35	-31.0%	19	16	NM	18	0	0	1	0
Arkansas	5	15	-64.0%	5	6	0	8	0	0	0	0
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	2	0	403.0%	2	0	0	0	0	0	0	0
Texas	13	18	-28.0%	9	8	NM	10	0	0	0	0
Mountain	30	45	-32.0%	26	41	4	4	0	0	0	0
Arizona	8	7	19.0%	8	7	0	0	0	0	0	0
Colorado	2	2	-32.0%	2	2	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	4	3	34.0%	NM	NM	4	3	0	0	0	0
Nevada	4	2	110.0%	4	1	1	1	0	0	0	0
New Mexico	3	6	-58.0%	3	6	0	0	0	0	0	0
Utah	5	9	-40.0%	5	9	0	0	0	0	0	0
Wyoming	4	15	-71.0%	4	15	0	0	0	0	0	0
Pacific Contiguous	11	8	43.0%	5	5	2	2	0	0	5	1
California	10	7	56.0%	5	5	1	1	0	0	4	0
Oregon	0	0	-50.0%	0	0	0	0	0	0	0	0
Washington	1	1	-22.0%	NM	NM	NM	0	0	0	1	1
Pacific Noncontiguous	1,052	995	5.8%	846	787	185	186	1	1	21	20
Alaska	96	105	-9.0%	92	100	0	0	NM	0	4	4
Hawaii	957	890	7.5%	754	687	185	186	1	1	17	16
U.S. Total	1,780	1,752	1.6%	1,302	1,306	418	394	19	16	41	37

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

Table 2.9.B. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, Year-to-Date through May 2018 and May 2017 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	1,579	301	425.0%	259	44	1,285	233	27	21	9	3
Connecticut	331	46	621.0%	NM	5	322	40	NM	NM	1	0
Maine	266	53	403.0%	0	0	256	48	3	3	NM	2
Massachusetts	647	154	319.0%	83	7	551	138	NM	9	1	1
New Hampshire	249	29	746.0%	162	22	79	NM	8	7	0	0
Rhode Island	NM	13	NM	0	5	NM	NM	1	2	0	0
Vermont	NM	5	NM	NM	5	0	0	0	0	0	0
Middle Atlantic	3,505	508	590.0%	1,115	160	2,340	308	NM	10	NM	30
New Jersey	352	33	951.0%	3	NM	344	33	4	0	1	0
New York	2,365	276	757.0%	1,109	160	1,227	90	NM	NM	NM	21
Pennsylvania	788	199	297.0%	2	0	770	184	7	4	NM	10
East North Central	575	375	53.0%	311	234	250	133	NM	2	10	6
Illinois	58	47	22.0%	NM	6	46	41	NM	NM	0	0
Indiana	94	85	11.0%	85	81	1	0	0	0	8	4
Michigan	124	69	79.0%	121	67	0	0	3	2	0	1
Ohio	274	147	87.0%	71	54	201	91	0	0	1	1
Wisconsin	26	27	-5.3%	NM	26	2	0	0	0	NM	NM
West North Central	322	258	25.0%	288	252	NM	NM	1	1	0	1
Iowa	79	75	6.0%	78	74	NM	1	0	0	0	0
Kansas	NM	53	NM	NM	53	0	0	0	0	0	0
Minnesota	NM	26	NM	21	22	NM	NM	1	1	0	0
Missouri	88	50	76.0%	88	50	NM	NM	0	0	0	0
Nebraska	NM	7	NM	NM	7	0	0	0	0	0	0
North Dakota	28	40	-30.0%	28	40	0	0	0	0	0	0
South Dakota	NM	6	NM	NM	6	0	0	NM	NM	0	0
South Atlantic	3,565	1,332	168.0%	2,374	1,055	1,088	220	61	32	42	26
Delaware	213	NM	NM	12	0	201	NM	0	0	0	0
District of Columbia	NM	0	--	0	0	0	0	NM	0	0	0
Florida	520	448	16.0%	NM	437	NM	4	0	0	12	7
Georgia	NM	92	NM	NM	68	NM	NM	5	1	12	7
Maryland	431	83	418.0%	6	2	422	80	1	0	2	1
North Carolina	689	183	277.0%	644	167	NM	12	0	0	NM	3
South Carolina	NM	72	NM	NM	66	42	1	NM	0	6	5
Virginia	1,006	334	201.0%	NM	222	216	80	54	30	NM	3
West Virginia	141	94	51.0%	123	94	19	0	0	0	0	0
East South Central	280	204	37.0%	210	193	58	5	0	0	12	6
Alabama	105	33	218.0%	NM	23	58	5	0	0	NM	5
Kentucky	75	84	-11.0%	75	84	0	0	0	0	0	0
Mississippi	NM	12	NM	NM	11	0	0	0	0	2	1
Tennessee	84	75	11.0%	83	75	0	0	0	0	0	1
West South Central	NM	122	NM	NM	55	NM	65	1	0	4	2
Arkansas	NM	41	NM	NM	13	5	27	0	0	2	1
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	13	9	38.0%	12	9	0	0	0	0	1	1
Texas	NM	66	NM	NM	27	NM	38	1	0	1	1
Mountain	145	192	-25.0%	132	171	13	20	0	0	0	0
Arizona	46	43	6.2%	46	43	0	0	0	0	0	0
Colorado	12	9	32.0%	12	9	0	0	0	0	0	0
Idaho	0	0	-55.0%	0	0	0	0	0	0	0	0
Montana	10	16	-39.0%	NM	NM	10	16	0	0	0	0
Nevada	6	4	38.0%	4	1	2	3	0	0	0	0
New Mexico	14	40	-64.0%	14	40	0	0	0	0	0	0
Utah	30	35	-16.0%	28	34	1	1	0	0	0	0
Wyoming	26	43	-40.0%	26	43	0	0	0	0	0	0
Pacific Contiguous	46	59	-21.0%	25	34	5	12	0	0	16	13
California	41	39	3.9%	25	26	3	5	0	0	13	9
Oregon	0	5	-100.0%	0	5	0	0	0	0	0	0
Washington	6	14	-61.0%	NM	3	NM	7	0	0	3	4
Pacific Noncontiguous	4,907	5,140	-4.5%	4,094	4,253	698	772	7	8	108	107
Alaska	606	703	-14.0%	575	670	0	0	3	4	28	30
Hawaii	4,302	4,437	-3.0%	3,519	3,582	698	772	4	4	81	78
U.S. Total	15,066	8,491	77.0%	8,916	6,451	5,799	1,772	122	75	230	194

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

Table 2.10.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, May 2018 and May 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	0	0	-21.0%	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	57	76	-25.0%	40	46	NM	25	0	0	2	5
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	38	48	-21.0%	36	43	0	0	0	0	2	5
Ohio	16	25	-37.0%	0	0	NM	25	0	0	0	0
Wisconsin	4	3	24.0%	4	3	0	0	0	0	0	0
West North Central	1	0	244.0%	0	0	0	0	0	0	1	0
Iowa	1	0	244.0%	0	0	0	0	0	0	1	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	30	19	58.0%	28	15	0	0	0	0	NM	NM
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	15	91.0%	28	15	0	0	0	0	0	0
Georgia	NM	NM	NM	0	0	0	0	0	0	NM	NM
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	25	-100.0%	0	25	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	25	-100.0%	0	25	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	79	186	-57.0%	72	178	0	0	0	0	7	8
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	75	182	-59.0%	72	178	0	0	0	0	3	4
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	4	4	11.0%	0	0	0	0	0	0	4	4
Mountain	8	13	-35.0%	0	0	8	13	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	8	13	-35.0%	0	0	8	13	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	176	320	-45.0%	140	264	24	38	0	0	13	18

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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 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, Year-to-Date through May 2018 and May 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 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	6	7	-16.0%	0	0	0	0	0	0	6	7
New Jersey	2	3	-30.0%	0	0	0	0	0	0	2	3
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	4	NM	0	0	0	0	0	0	NM	4
East North Central	306	323	-5.3%	241	186	54	115	0	0	11	21
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	235	199	18.0%	225	178	0	0	0	0	10	21
Ohio	54	115	-53.0%	0	0	54	115	0	0	0	0
Wisconsin	16	8	99.0%	16	8	0	0	0	0	0	0
West North Central	6	3	82.0%	0	0	0	0	1	1	5	2
Iowa	6	3	82.0%	0	0	0	0	1	1	5	2
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	212	103	106.0%	199	93	0	0	0	0	13	10
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	199	93	113.0%	199	93	0	0	0	0	0	0
Georgia	13	10	34.0%	0	0	0	0	0	0	13	10
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	123	-100.0%	0	123	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	123	-100.0%	0	123	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	647	740	-12.0%	621	705	0	0	0	0	27	35
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	632	721	-12.0%	621	705	0	0	0	0	11	16
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	15	19	-20.0%	0	0	0	0	0	0	15	19
Mountain	64	64	0.8%	0	0	64	64	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	64	64	0.8%	0	0	64	64	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	1,242	1,363	-8.9%	1,061	1,107	118	179	1	1	62	76

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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, May 2018 and May 2017 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	23,622	26,265	-10.0%	NM	366	22,649	25,144	294	284	473	471
Connecticut	8,893	6,782	31.0%	30	30	8,528	6,434	109	100	226	218
Maine	1,579	1,533	3.0%	0	0	NM	NM	13	12	127	137
Massachusetts	8,624	12,847	-33.0%	NM	NM	8,199	12,447	152	151	103	97
New Hampshire	868	1,796	-52.0%	6	183	844	1,593	2	2	17	18
Rhode Island	3,657	3,305	11.0%	0	0	3,640	3,286	17	19	0	0
Vermont	0	2	-98.0%	0	2	0	0	0	0	0	0
Middle Atlantic	88,958	76,111	17.0%	7,480	6,031	79,989	68,898	431	404	1,059	777
New Jersey	21,396	21,113	1.3%	NM	NM	21,043	20,738	73	58	117	121
New York	30,595	27,314	12.0%	7,307	5,832	22,572	20,999	310	301	406	182
Pennsylvania	36,968	27,684	34.0%	11	2	36,374	27,162	47	45	536	475
East North Central	80,811	49,990	62.0%	31,854	19,031	46,209	28,701	604	565	2,144	1,692
Illinois	12,381	8,492	46.0%	1,946	NM	9,934	7,442	124	146	378	244
Indiana	15,610	7,061	121.0%	8,200	5,869	6,265	245	88	95	1,057	852
Michigan	21,897	14,599	50.0%	7,690	4,227	13,481	9,730	228	221	498	421
Ohio	22,683	14,581	56.0%	6,316	3,816	16,167	10,632	122	77	78	56
Wisconsin	8,240	5,256	57.0%	7,703	4,458	363	652	42	26	133	120
West North Central	24,232	10,085	140.0%	20,897	8,536	2,999	1,245	141	112	195	191
Iowa	4,924	1,592	209.0%	4,764	1,446	NM	NM	43	35	116	111
Kansas	5,154	1,607	221.0%	5,133	1,598	0	0	0	0	21	9
Minnesota	5,655	3,038	86.0%	4,616	2,498	968	453	34	34	36	53
Missouri	5,996	2,630	128.0%	3,893	1,782	2,030	NM	62	42	11	14
Nebraska	1,039	342	204.0%	1,038	342	0	0	1	0	0	0
North Dakota	722	523	38.0%	NM	518	0	0	0	0	10	5
South Dakota	NM	352	NM	NM	352	0	0	0	0	0	0
South Atlantic	223,288	208,748	7.0%	175,211	169,245	45,351	36,997	871	493	1,856	2,013
Delaware	3,871	5,301	-27.0%	8	13	3,625	4,962	0	0	238	326
District of Columbia	27	42	-35.0%	0	0	0	0	27	42	0	0
Florida	105,004	110,159	-4.7%	98,424	102,150	5,869	7,364	9	16	702	628
Georgia	34,959	30,958	13.0%	24,458	23,460	10,182	7,150	0	0	320	348
Maryland	11,871	3,634	227.0%	2,111	0	8,899	3,172	822	427	38	35
North Carolina	25,160	22,032	14.0%	20,647	18,555	4,447	3,428	6	6	59	43
South Carolina	12,031	12,388	-2.9%	10,281	10,633	1,688	1,696	0	0	62	59
Virginia	29,206	23,576	24.0%	19,115	14,221	9,703	8,943	6	2	382	410
West Virginia	1,159	658	76.0%	166	213	NM	NM	0	0	55	163
East South Central	87,613	71,068	23.0%	59,897	48,664	26,619	21,321	69	69	1,028	1,013
Alabama	38,402	30,164	27.0%	15,291	11,092	22,534	18,558	0	0	577	514
Kentucky	9,527	6,536	46.0%	9,043	6,189	448	261	0	0	NM	85
Mississippi	33,938	30,444	11.0%	30,147	27,790	3,621	2,485	0	0	170	169
Tennessee	5,746	3,923	46.0%	5,416	3,592	15	17	69	69	246	245
West South Central	238,905	184,132	30.0%	89,550	64,901	118,589	88,995	271	359	30,495	29,877
Arkansas	13,568	12,777	6.2%	6,651	4,472	6,796	8,201	0	0	120	103
Louisiana	40,166	35,650	13.0%	24,029	20,816	4,637	2,686	50	41	11,451	12,107
Oklahoma	34,595	18,753	84.0%	21,617	12,369	12,754	6,293	0	0	224	91
Texas	150,576	116,953	29.0%	37,252	27,244	94,401	71,815	222	318	18,701	17,576
Mountain	59,563	51,536	16.0%	47,274	38,832	11,204	11,452	165	158	921	1,094
Arizona	20,659	19,126	8.0%	14,691	13,022	5,909	6,051	59	54	0	0
Colorado	10,183	6,991	46.0%	8,805	5,691	1,347	1,271	0	0	30	29
Idaho	1,005	1,071	-6.2%	NM	610	NM	407	13	14	36	40
Montana	373	319	17.0%	362	280	NM	39	0	0	0	0
Nevada	14,100	14,444	-2.4%	12,596	12,875	1,352	1,360	23	17	129	193
New Mexico	8,505	6,157	38.0%	6,517	3,969	1,960	2,141	NM	46	2	0
Utah	4,299	2,993	44.0%	3,754	2,337	46	177	43	27	455	453
Wyoming	438	434	0.9%	NM	NM	0	6	0	0	267	379
Pacific Contiguous	38,430	43,943	-13.0%	13,393	17,994	18,560	19,308	923	997	5,554	5,645
California	32,405	38,934	-17.0%	9,630	14,819	16,387	17,547	899	971	5,490	5,597
Oregon	2,978	1,858	60.0%	1,580	1,456	1,338	357	18	18	41	27
Washington	3,046	3,152	-3.3%	2,183	1,719	834	1,403	6	8	23	22
Pacific Noncontiguous	1,914	1,412	36.0%	1,893	1,398	0	0	0	1	21	13
Alaska	1,914	1,412	36.0%	1,893	1,398	0	0	0	1	21	13
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	867,336	723,289	20.0%	447,654	374,999	372,167	302,060	3,769	3,443	43,746	42,787

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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 May 2018 and May 2017 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	123,936	135,381	-8.5%	NM	685	119,090	130,557	1,799	1,745	2,389	2,395
Connecticut	47,188	41,266	14.0%	149	157	45,218	39,320	758	733	1,063	1,057
Maine	6,135	7,550	-19.0%	0	0	5,411	6,769	60	54	664	727
Massachusetts	51,998	62,675	-17.0%	NM	NM	50,042	60,958	883	855	580	528
New Hampshire	2,943	8,913	-67.0%	12	188	2,835	8,620	14	22	83	83
Rhode Island	15,667	14,969	4.7%	0	0	15,584	14,890	83	80	0	0
Vermont	5	7	-32.0%	3	5	0	0	2	2	0	0
Middle Atlantic	423,191	389,358	8.7%	32,419	32,412	382,919	350,323	2,476	2,378	5,377	4,245
New Jersey	101,024	102,103	-1.1%	NM	NM	99,214	100,237	371	382	815	745
New York	132,909	137,588	-3.4%	31,752	31,662	97,722	103,363	1,783	1,716	1,651	848
Pennsylvania	189,258	149,667	26.0%	42	12	185,982	146,723	322	280	2,911	2,652
East North Central	368,804	261,531	41.0%	139,901	111,737	214,885	136,994	3,040	2,959	10,978	9,842
Illinois	42,424	40,819	3.9%	3,581	3,440	36,148	34,825	765	794	1,930	1,760
Indiana	71,197	49,699	43.0%	36,021	38,207	29,455	6,511	379	395	5,342	4,586
Michigan	98,611	71,088	39.0%	32,675	23,614	62,084	43,926	1,272	1,148	2,580	2,400
Ohio	113,578	70,936	60.0%	27,852	21,179	84,862	48,907	437	474	426	376
Wisconsin	42,994	28,989	48.0%	39,772	25,297	2,336	2,824	186	149	698	719
West North Central	84,277	50,109	68.0%	72,287	42,105	10,117	6,536	647	561	1,227	907
Iowa	18,054	7,436	143.0%	17,215	6,819	NM	NM	208	156	631	461
Kansas	12,590	6,133	105.0%	12,397	6,065	0	0	0	0	193	68
Minnesota	25,632	17,484	47.0%	21,339	14,432	3,837	2,531	187	243	269	279
Missouri	19,421	12,838	51.0%	12,840	8,598	6,280	4,005	227	156	74	78
Nebraska	2,204	1,331	66.0%	2,179	1,325	0	0	25	6	0	0
North Dakota	3,801	3,020	26.0%	3,742	2,998	0	0	0	0	60	22
South Dakota	2,575	1,867	38.0%	2,575	1,867	0	0	0	0	0	0
South Atlantic	982,250	899,965	9.1%	796,422	739,416	173,275	148,047	3,175	2,555	9,379	9,947
Delaware	17,537	19,534	-10.0%	15	22	16,207	17,683	0	0	1,315	1,829
District of Columbia	257	289	-11.0%	0	0	0	0	257	289	0	0
Florida	466,319	444,428	4.9%	439,942	412,923	23,099	28,311	50	63	3,228	3,132
Georgia	148,843	140,126	6.2%	110,999	107,327	36,223	31,197	0	0	1,622	1,603
Maryland	36,839	18,172	103.0%	8,867	0	24,972	15,833	2,810	2,159	190	181
North Carolina	121,640	109,357	11.0%	106,190	95,101	15,105	14,002	24	27	321	227
South Carolina	49,271	49,515	-0.5%	41,436	43,300	7,481	5,864	1	2	353	349
Virginia	137,700	116,031	19.0%	87,939	80,116	47,825	34,034	34	15	1,901	1,866
West Virginia	3,845	2,513	53.0%	1,033	627	2,362	NM	0	0	449	761
East South Central	392,281	327,973	20.0%	273,367	224,808	113,423	97,823	426	384	5,065	4,958
Alabama	156,699	136,814	15.0%	58,131	48,812	95,877	85,355	0	0	2,690	2,647
Kentucky	47,559	30,312	57.0%	43,793	28,747	3,419	1,140	0	0	346	425
Mississippi	153,842	130,288	18.0%	138,894	118,143	14,053	11,275	39	21	856	849
Tennessee	34,182	30,559	12.0%	32,548	29,106	74	53	387	363	1,173	1,037
West South Central	945,235	765,553	23.0%	314,146	241,206	479,731	371,444	1,266	1,545	150,093	151,358
Arkansas	59,773	46,342	29.0%	23,006	16,589	36,111	29,158	0	0	656	594
Louisiana	166,974	154,977	7.7%	96,287	81,369	12,767	13,666	265	261	57,654	59,681
Oklahoma	109,182	74,111	47.0%	64,862	49,381	43,171	24,038	0	0	1,149	691
Texas	609,307	490,124	24.0%	129,992	93,867	387,682	304,582	1,001	1,284	90,633	90,392
Mountain	249,862	211,251	18.0%	200,482	166,114	43,100	38,899	919	878	5,361	5,361
Arizona	73,737	55,703	32.0%	59,336	41,621	14,143	13,839	258	243	0	0
Colorado	45,455	32,917	38.0%	38,331	26,983	6,994	5,796	0	0	130	139
Idaho	5,462	6,542	-17.0%	1,670	3,649	3,483	2,556	72	73	237	263
Montana	1,647	1,697	-2.9%	1,475	1,441	166	246	0	0	6	10
Nevada	68,317	68,087	0.3%	61,362	61,411	5,877	5,786	109	101	968	790
New Mexico	33,038	27,180	22.0%	21,209	17,034	11,580	9,914	208	222	42	9
Utah	19,891	17,021	17.0%	16,596	13,727	849	754	273	239	2,173	2,302
Wyoming	2,315	2,105	10.0%	504	248	8	8	0	0	1,804	1,849
Pacific Contiguous	261,435	244,545	6.9%	104,679	97,587	125,219	114,684	4,622	4,708	26,916	27,566
California	206,988	199,849	3.6%	77,792	75,305	98,263	92,818	4,483	4,598	26,450	27,128
Oregon	32,249	22,759	42.0%	14,499	9,518	17,432	12,964	97	71	221	206
Washington	22,198	21,937	1.2%	12,388	12,764	9,524	8,902	42	40	245	231
Pacific Noncontiguous	11,249	8,759	28.0%	11,144	8,624	0	0	2	21	103	114
Alaska	11,249	8,759	28.0%	11,144	8,624	0	0	2	21	103	114
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,842,519	3,294,426	17.0%	1,945,501	1,664,695	1,661,758	1,395,306	18,373	17,733	216,888	216,692

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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, May 2018 and May 2017 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	840	871	-3.6%	0	0	826	852	14	18	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	349	354	-1.3%	0	0	349	354	0	0	0	0
New Hampshire	81	86	-5.8%	0	0	NM	NM	14	18	0	0
Rhode Island	287	308	-6.8%	0	0	287	308	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	4,319	4,125	4.7%	0	0	4,144	3,951	67	NM	107	115
New Jersey	627	528	19.0%	0	0	604	508	NM	NM	0	0
New York	1,338	1,364	-1.9%	0	0	1,338	1,364	0	0	0	0
Pennsylvania	2,354	2,233	5.4%	0	0	2,202	2,080	45	NM	107	115
East North Central	5,156	5,390	-4.3%	602	692	4,496	4,645	37	31	21	23
Illinois	825	996	-17.0%	30	36	795	960	0	0	0	0
Indiana	682	746	-8.6%	572	645	109	101	0	0	0	0
Michigan	1,721	1,782	-3.5%	0	0	1,721	1,782	0	0	0	0
Ohio	932	916	1.7%	0	0	932	916	0	0	0	0
Wisconsin	997	950	5.0%	0	NM	940	886	37	31	21	23
West North Central	984	852	16.0%	279	285	705	567	0	0	0	0
Iowa	231	103	125.0%	0	0	231	103	0	0	0	0
Kansas	118	116	1.9%	0	0	118	116	0	0	0	0
Minnesota	321	321	-0.2%	NM	NM	259	252	0	0	0	0
Missouri	154	168	-8.3%	NM	NM	NM	NM	0	0	0	0
Nebraska	159	144	11.0%	159	144	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	3,761	3,670	2.5%	399	403	3,118	3,034	89	NM	154	148
Delaware	110	110	-0.6%	0	0	NM	NM	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	627	609	3.0%	163	152	464	458	0	0	0	0
Georgia	331	293	13.0%	0	0	312	274	0	0	20	19
Maryland	217	217	0.3%	0	0	159	160	NM	NM	0	0
North Carolina	872	870	0.3%	0	0	858	857	NM	NM	0	0
South Carolina	388	395	-1.8%	233	245	NM	NM	0	0	123	117
Virginia	1,214	1,175	3.3%	4	6	1,193	1,154	NM	NM	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	458	452	1.3%	176	176	282	276	0	0	0	0
Alabama	NM	NM	NM	0	0	NM	NM	0	0	0	0
Kentucky	188	187	0.3%	176	176	12	11	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	158	156	1.7%	0	0	158	156	0	0	0	0
West South Central	1,209	1,326	-8.8%	0	0	1,157	1,280	52	47	0	0
Arkansas	136	132	3.2%	0	0	136	132	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	1,042	1,163	-10.0%	0	0	990	1,117	52	47	0	0
Mountain	536	529	1.4%	NM	NM	482	470	37	40	0	0
Arizona	NM	NM	NM	0	0	NM	NM	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	0	0
Idaho	NM	NM	NM	NM	NM	NM	NM	9	14	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	127	130	-2.1%	0	0	127	130	0	0	0	0
New Mexico	0	NM	NM	0	0	0	NM	0	0	0	0
Utah	180	165	9.0%	0	0	152	139	28	26	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,414	4,634	-4.7%	411	660	2,876	2,864	1,127	1,110	0	0
California	3,608	3,808	-5.2%	NM	253	2,506	2,477	1,093	1,077	0	0
Oregon	451	463	-2.6%	124	121	293	310	NM	NM	0	0
Washington	355	363	-2.2%	279	286	NM	NM	0	0	0	0
Pacific Noncontiguous	70	70	0.3%	0	0	0	0	70	70	0	0
Alaska	70	70	0.3%	0	0	0	0	70	70	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	21,747	21,919	-0.8%	1,885	2,234	18,086	17,939	1,494	1,460	282	286

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

Table 2.12.B. Consumption of Landfill Gas for Electricity Generation by State, by Sector, Year-to-Date through May 2018 and May 2017 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	4,440	4,472	-0.7%	0	0	4,345	4,392	95	80	0	0
Connecticut	184	182	0.8%	0	0	184	182	0	0	0	0
Maine	285	283	0.8%	0	0	285	283	0	0	0	0
Massachusetts	1,746	1,766	-1.1%	0	0	1,746	1,766	0	0	0	0
New Hampshire	428	410	4.3%	0	0	333	330	95	80	0	0
Rhode Island	1,639	1,678	-2.3%	0	0	1,639	1,678	0	0	0	0
Vermont	157	152	3.4%	0	0	157	152	0	0	0	0
Middle Atlantic	21,828	21,952	-0.6%	0	0	20,811	20,903	396	355	620	693
New Jersey	3,234	3,063	5.6%	0	0	3,101	2,939	133	124	0	0
New York	6,651	6,688	-0.6%	0	0	6,651	6,688	0	0	0	0
Pennsylvania	11,942	12,201	-2.1%	0	0	11,059	11,276	263	231	620	693
East North Central	26,288	26,859	-2.1%	3,133	3,306	22,864	23,273	165	160	126	120
Illinois	4,647	5,281	-12.0%	157	191	4,490	5,090	0	0	0	0
Indiana	3,498	3,526	-0.8%	2,976	3,057	506	462	0	0	16	7
Michigan	8,716	8,698	0.2%	0	0	8,716	8,698	0	0	0	0
Ohio	4,495	4,507	-0.3%	0	0	4,495	4,507	0	0	0	0
Wisconsin	4,932	4,848	1.7%	0	NM	4,657	4,517	165	160	110	113
West North Central	4,960	4,259	16.0%	1,479	1,433	3,482	2,826	0	0	0	0
Iowa	1,109	507	119.0%	0	0	1,109	507	0	0	0	0
Kansas	593	580	2.3%	0	0	593	580	0	0	0	0
Minnesota	1,640	1,616	1.5%	352	360	1,288	1,255	0	0	0	0
Missouri	856	869	-1.5%	365	385	491	484	0	0	0	0
Nebraska	762	688	11.0%	762	688	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	19,324	18,948	2.0%	1,985	2,008	15,916	15,479	553	526	870	936
Delaware	563	557	1.0%	0	0	503	496	0	0	60	61
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,024	2,997	0.9%	709	720	2,315	2,277	0	0	0	0
Georgia	1,671	1,608	3.9%	0	0	1,618	1,460	0	0	52	148
Maryland	1,180	1,161	1.7%	0	0	817	807	363	354	0	0
North Carolina	4,430	4,373	1.3%	0	0	4,346	4,298	84	75	0	0
South Carolina	2,174	2,145	1.4%	1,247	1,251	169	166	0	0	758	727
Virginia	6,282	6,109	2.8%	29	37	6,148	5,975	105	97	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,296	2,279	0.7%	893	882	1,403	1,397	0	0	0	0
Alabama	470	458	2.7%	0	0	470	458	0	0	0	0
Kentucky	943	957	-1.5%	893	882	50	75	0	0	0	0
Mississippi	89	NM	NM	0	0	89	NM	0	0	0	0
Tennessee	795	777	2.2%	0	0	795	777	0	0	0	0
West South Central	6,130	6,421	-4.5%	0	0	5,879	6,207	251	214	0	0
Arkansas	674	655	2.8%	0	0	674	655	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	159	157	1.4%	0	0	159	157	0	0	0	0
Texas	5,297	5,609	-5.6%	0	0	5,046	5,395	251	214	0	0
Mountain	2,725	2,704	0.8%	92	93	2,440	2,409	193	202	0	0
Arizona	379	371	2.2%	0	0	379	371	0	0	0	0
Colorado	458	446	2.6%	0	0	458	446	0	0	0	0
Idaho	334	338	-1.2%	92	93	177	174	65	71	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	664	658	0.8%	0	0	664	658	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	878	874	0.6%	0	0	751	743	128	130	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	23,576	23,133	1.9%	2,960	3,120	14,569	14,028	6,046	5,985	0	0
California	19,267	19,051	1.1%	813	1,095	12,619	12,173	5,834	5,784	0	0
Oregon	2,388	2,263	5.5%	616	591	1,560	1,470	212	202	0	0
Washington	1,921	1,819	5.6%	1,531	1,433	390	386	0	0	0	0
Pacific Noncontiguous	355	275	29.0%	0	0	0	0	355	275	0	0
Alaska	355	275	29.0%	0	0	0	0	355	275	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	111,922	111,305	0.6%	10,542	10,842	91,710	90,915	8,054	7,798	1,617	1,750

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

Table 2.13.A. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, May 2018 and May 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	303	321	-5.5%	0	0	290	303	13	18	0	0
Connecticut	102	118	-13.0%	0	0	102	118	0	0	0	0
Maine	23	28	-17.0%	0	0	10	10	13	18	0	0
Massachusetts	168	164	2.1%	0	0	168	164	0	0	0	0
New Hampshire	10	11	-7.3%	0	0	10	11	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	458	470	-2.5%	0	0	360	369	98	101	0	0
New Jersey	123	118	3.8%	0	0	92	87	31	32	0	0
New York	164	177	-7.3%	0	0	119	131	45	47	0	0
Pennsylvania	171	174	-1.9%	0	0	149	151	22	23	0	0
East North Central	22	23	-3.0%	3	3	0	0	18	19	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	2	2	-8.2%	0	0	0	0	2	2	0	0
Michigan	17	17	-2.8%	0	0	0	0	17	17	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-1.4%	3	3	0	0	0	0	0	0
West North Central	62	53	15.0%	40	32	22	21	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	62	53	15.0%	40	32	22	21	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	458	415	10.0%	0	0	413	370	44	46	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	309	310	-0.4%	0	0	309	310	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	48	59	-20.0%	0	0	48	59	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	101	46	122.0%	0	0	57	0	44	46	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1	1	-54.0%	0	0	0	0	0	0	1	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	-54.0%	0	0	0	0	0	0	1	1
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	58	67	-14.0%	0	0	58	67	0	0	0	0
California	36	42	-15.0%	0	0	36	42	0	0	0	0
Oregon	10	10	5.5%	0	0	10	10	0	0	0	0
Washington	12	15	-22.0%	0	0	12	15	0	0	0	0
Pacific Noncontiguous	37	35	5.4%	0	0	0	0	37	35	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	37	35	5.4%	0	0	0	0	37	35	0	0
U.S. Total	1,398	1,386	0.9%	43	36	1,143	1,130	212	219	1	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 May 2018 and May 2017 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	1,453	1,489	-2.4%	0	0	1,375	1,405	78	84	0	0
Connecticut	477	523	-8.7%	0	0	477	523	0	0	0	0
Maine	126	131	-4.1%	0	0	48	47	78	84	0	0
Massachusetts	800	784	2.0%	0	0	800	784	0	0	0	0
New Hampshire	51	51	-1.8%	0	0	51	51	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,167	2,169	-0.1%	0	0	1,723	1,725	444	444	0	0
New Jersey	598	577	3.6%	0	0	448	431	149	146	0	0
New York	786	790	-0.5%	0	0	588	597	198	192	0	0
Pennsylvania	784	801	-2.2%	0	0	687	696	96	106	0	0
East North Central	95	97	-2.2%	14	15	0	0	82	82	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	8	7	15.0%	0	0	0	0	8	7	0	0
Michigan	73	75	-2.1%	0	0	0	0	73	75	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	14	15	-11.0%	14	15	0	0	0	0	0	0
West North Central	253	242	4.4%	161	145	92	98	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	253	242	4.4%	161	145	92	98	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,297	2,107	9.0%	0	0	2,110	1,895	187	212	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,567	1,580	-0.9%	0	0	1,567	1,580	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	254	248	2.1%	0	0	254	248	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	477	278	72.0%	0	0	290	66	187	212	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	4	2	154.0%	0	0	0	0	0	0	4	2
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	4	2	154.0%	0	0	0	0	0	0	4	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	298	315	-5.3%	0	0	298	315	0	0	0	0
California	188	199	-5.6%	0	0	188	199	0	0	0	0
Oregon	47	48	-1.1%	0	0	47	48	0	0	0	0
Washington	63	68	-7.3%	0	0	63	68	0	0	0	0
Pacific Noncontiguous	177	178	-0.4%	0	0	0	0	177	178	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	177	178	-0.4%	0	0	0	0	177	178	0	0
U.S. Total	6,745	6,599	2.2%	174	160	5,598	5,437	969	1,000	4	2

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

Table 2.14.A. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, May 2018 and May 2017 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	4,072	4,732	-14.0%	96	607	3,519	3,675	1	1	456	449
Connecticut	NM	358	NM	0	0	NM	358	0	0	0	0
Maine	1,900	1,967	-3.4%	0	0	1,443	1,517	0	1	456	449
Massachusetts	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Hampshire	1,508	1,877	-20.0%	96	423	1,412	1,454	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	NM	354	NM	0	184	NM	NM	1	1	0	0
Middle Atlantic	1,128	1,097	2.8%	0	0	599	544	0	0	529	554
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	659	621	6.1%	0	0	599	544	0	0	60	77
Pennsylvania	469	477	-1.7%	0	0	0	0	0	0	469	477
East North Central	2,225	2,117	5.1%	494	454	1,095	1,064	0	0	635	598
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,399	1,346	4.0%	0	0	1,082	1,051	0	0	317	295
Ohio	75	87	-14.0%	0	0	14	13	0	0	61	73
Wisconsin	751	684	9.8%	494	454	0	0	0	0	257	230
West North Central	819	777	5.3%	NM	179	381	303	17	42	249	253
Iowa	0	0	-100.0%	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	807	738	9.4%	NM	179	381	303	6	3	249	253
Missouri	11	39	-70.0%	0	0	0	0	11	39	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	11,033	10,379	6.3%	2,642	1,948	2,687	3,178	13	0	5,690	5,253
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	1,954	1,774	10.0%	676	0	497	1,034	0	0	781	740
Georgia	2,699	2,505	7.7%	0	0	646	641	0	0	2,052	1,865
Maryland	66	35	88.0%	0	0	0	0	13	0	53	35
North Carolina	1,424	1,351	5.5%	0	0	802	760	0	0	622	591
South Carolina	1,537	1,553	-1.0%	156	142	464	483	0	0	917	927
Virginia	3,353	3,162	6.0%	1,810	1,805	NM	NM	0	0	1,265	1,095
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,221	2,980	8.1%	0	0	214	197	0	0	3,006	2,784
Alabama	2,086	1,993	4.7%	0	0	214	197	0	0	1,871	1,796
Kentucky	143	130	9.5%	0	0	0	0	0	0	143	130
Mississippi	644	545	18.0%	0	0	0	0	0	0	644	545
Tennessee	348	313	11.0%	0	0	0	0	0	0	348	313
West South Central	3,021	2,197	38.0%	0	0	480	0	0	0	2,541	2,197
Arkansas	613	515	19.0%	0	0	0	0	0	0	613	515
Louisiana	1,386	1,324	4.7%	0	0	0	0	0	0	1,386	1,324
Oklahoma	153	0	--	0	0	0	0	0	0	153	0
Texas	870	358	143.0%	0	0	480	0	0	0	390	358
Mountain	547	536	2.0%	0	0	386	404	0	0	161	133
Arizona	NM	NM	NM	0	0	NM	NM	0	0	0	0
Colorado	114	109	4.5%	0	0	114	109	0	0	0	0
Idaho	174	148	18.0%	0	0	29	31	0	0	145	117
Montana	16	16	0.9%	0	0	0	0	0	0	16	16
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	5,633	5,334	5.6%	NM	397	3,531	3,571	0	0	1,720	1,366
California	3,849	3,669	4.9%	0	0	3,270	3,312	0	0	579	357
Oregon	591	569	3.7%	0	0	NM	NM	0	0	330	310
Washington	1,193	1,096	8.9%	NM	397	0	0	0	0	811	699
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	31,698	30,151	5.1%	3,786	3,584	12,893	12,937	32	43	14,988	13,587

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

Table 2.14.B. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, Year-to-Date through May 2018 and May 2017 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	23,281	24,710	-5.8%	2,977	3,329	18,052	19,050	13	39	2,240	2,293
Connecticut	1,743	1,836	-5.1%	0	0	1,743	1,836	0	0	0	0
Maine	9,798	10,314	-5.0%	0	0	7,550	7,987	9	34	2,240	2,293
Massachusetts	853	895	-4.7%	0	0	853	895	0	0	0	0
New Hampshire	8,464	9,335	-9.3%	1,383	1,873	7,081	7,462	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	2,423	2,329	4.0%	1,594	1,455	825	870	4	5	0	0
Middle Atlantic	5,637	5,544	1.7%	0	0	2,881	2,735	0	0	2,755	2,809
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	3,312	3,178	4.2%	0	0	2,880	2,735	0	0	432	443
Pennsylvania	2,325	2,366	-1.8%	0	0	1	0	0	0	2,324	2,366
East North Central	10,642	10,828	-1.7%	2,223	2,256	5,141	5,439	0	0	3,278	3,133
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	6,630	6,802	-2.5%	0	0	5,080	5,374	0	0	1,551	1,429
Ohio	481	526	-8.4%	0	0	61	66	0	0	420	460
Wisconsin	3,531	3,500	0.9%	2,223	2,256	0	0	0	0	1,308	1,245
West North Central	4,367	4,416	-1.1%	868	886	2,162	2,213	123	142	1,213	1,175
Iowa	1	2	-53.0%	0	0	0	0	1	2	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	4,264	4,280	-0.4%	868	886	2,162	2,213	20	5	1,213	1,175
Missouri	102	135	-24.0%	0	0	0	0	102	135	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	52,599	51,362	2.4%	10,694	9,602	14,853	15,394	53	27	26,999	26,338
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	8,934	8,774	1.8%	1,445	0	3,722	5,025	0	0	3,767	3,749
Georgia	14,022	12,653	11.0%	0	0	3,749	2,765	0	0	10,273	9,888
Maryland	297	275	7.7%	0	0	0	0	53	27	244	248
North Carolina	6,565	6,316	3.9%	0	0	3,587	3,665	0	0	2,978	2,651
South Carolina	7,563	7,674	-1.4%	815	769	2,520	2,595	0	0	4,228	4,310
Virginia	15,218	15,669	-2.9%	8,434	8,833	1,275	1,345	0	0	5,509	5,492
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	15,063	15,184	-0.8%	0	0	1,020	1,008	0	0	14,043	14,176
Alabama	9,845	9,881	-0.4%	0	0	1,020	1,008	0	0	8,825	8,874
Kentucky	696	665	4.5%	0	0	0	0	0	0	696	665
Mississippi	2,787	2,863	-2.7%	0	0	0	0	0	0	2,787	2,863
Tennessee	1,736	1,775	-2.2%	0	0	0	0	0	0	1,736	1,775
West South Central	12,872	12,270	4.9%	0	0	896	615	0	0	11,976	11,655
Arkansas	2,946	2,778	6.1%	0	0	0	0	0	0	2,946	2,778
Louisiana	6,370	6,416	-0.7%	0	0	0	0	0	0	6,370	6,416
Oklahoma	800	626	28.0%	0	0	3	0	0	0	797	626
Texas	2,756	2,450	12.0%	0	0	893	615	0	0	1,863	1,835
Mountain	2,677	2,741	-2.3%	0	0	1,864	2,009	0	0	813	731
Arizona	1,287	1,356	-5.1%	0	0	1,287	1,356	0	0	0	0
Colorado	460	549	-16.0%	0	0	460	549	0	0	0	0
Idaho	835	738	13.0%	0	0	117	104	0	0	718	634
Montana	95	97	-2.3%	0	0	0	0	0	0	95	97
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	26,313	26,508	-0.7%	1,935	2,039	16,291	17,363	0	0	8,087	7,107
California	17,433	17,824	-2.2%	0	0	15,028	16,032	0	0	2,405	1,793
Oregon	2,980	2,980	0.0%	0	0	1,262	1,331	0	0	1,717	1,649
Washington	5,900	5,704	3.4%	1,935	2,039	0	0	0	0	3,965	3,666
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	153,452	153,563	-0.1%	18,697	18,111	63,160	65,826	189	208	71,405	69,418

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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 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2008 - May 2018

	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									
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	162,009	31,839	845	130,885	21,013	603	31,124	10,827	241
2017	137,155	28,723	1,113	114,378	19,826	700	22,777	8,897	414
Year 2016, End of Month Stocks									
January	187,203	32,307	1,320	146,300	20,894	1,089	40,903	11,412	231
February	187,064	31,644	1,323	145,895	20,651	1,064	41,168	10,994	259
March	191,553	31,569	1,240	148,648	20,642	974	42,905	10,927	266
April	193,185	31,788	1,181	150,859	20,926	901	42,327	10,863	280
May	192,417	32,139	1,071	150,639	21,202	826	41,778	10,936	246
June	182,086	31,992	905	144,309	21,133	689	37,777	10,859	216
July	168,119	31,606	858	134,344	20,906	678	33,775	10,700	180
August	158,908	31,565	780	128,256	20,846	589	30,652	10,719	191
Sept	156,567	31,637	768	127,532	20,924	566	29,035	10,713	201
October	160,932	31,831	813	131,510	21,017	606	29,422	10,813	207
November	170,277	32,503	833	138,091	21,583	606	32,185	10,921	227
December	162,009	31,839	845	130,885	21,013	603	31,124	10,827	241
Year 2017, End of Month Stocks									
January	156,175	31,468	794	125,187	20,714	542	30,988	10,754	252
February	160,448	31,094	822	128,010	20,442	551	32,438	10,652	271
March	161,690	31,622	855	128,574	21,144	566	33,116	10,478	289
April	163,723	31,325	933	130,307	21,030	630	33,416	10,295	303
May	162,309	30,880	881	129,141	20,595	570	33,168	10,286	312
June	157,719	30,549	868	126,382	20,545	542	31,337	10,004	325
July	145,376	30,469	875	117,432	20,550	552	27,945	9,920	323
August	141,720	30,072	919	114,139	20,227	576	27,581	9,845	343
Sept	139,315	29,647	988	113,121	20,053	632	26,194	9,594	357
October	141,204	29,646	1,058	114,807	20,003	690	26,397	9,643	368
November	143,210	29,671	1,089	117,650	20,092	685	25,560	9,579	405
December	137,155	28,723	1,113	114,378	19,826	700	22,777	8,897	414
Year 2018, End of Month Stocks									
January	123,499	26,377	999	103,884	18,324	587	19,614	8,052	412
February	120,866	27,112	1,001	101,757	18,782	570	19,109	8,330	431
March	126,398	27,067	1,061	106,658	18,895	621	19,740	8,171	440
April	128,980	26,925	1,106	108,171	18,893	655	20,809	8,032	451
May	128,440	27,131	1,111	107,544	18,987	656	20,895	8,144	455

Notes: See Glossary for definitions. Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.2 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by State, May 2018 and 2017

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	May 2018	May 2017	Percentage Change	May 2018	May 2017	Percentage Change	May 2018	May 2017	Percentage Change
New England	699	W	W	3,363	4,155	-19.1%	0	0	--
Connecticut	W	W	W	1,359	1,509	-9.9%	0	0	--
Maine	0	0	--	218	502	-56.6%	0	0	--
Massachusetts	W	W	W	1,363	1,605	-15.0%	0	0	--
New Hampshire	W	W	W	243	347	-30.1%	0	0	--
Rhode Island	W	W	W	138	150	-7.8%	0	0	--
Vermont	0	0	--	41	42	-0.9%	0	0	--
Middle Atlantic	3,390	4,469	-24.1%	4,575	5,614	-18.5%	0	0	--
New Jersey	148	457	-67.7%	641	646	-0.7%	0	0	--
New York	W	W	W	2,961	3,678	-19.5%	0	0	--
Pennsylvania	W	W	W	973	1,290	-24.6%	0	0	--
East North Central	24,873	32,950	-24.5%	1,051	1,189	-11.6%	518	351	47.8%
Illinois	5,869	7,597	-22.7%	56	76	-25.8%	0	0	--
Indiana	8,108	9,663	-16.1%	93	181	-48.6%	W	W	W
Michigan	3,890	4,013	-3.1%	318	347	-8.3%	W	W	W
Ohio	3,727	6,912	-46.1%	386	384	0.5%	W	W	W
Wisconsin	3,280	4,766	-31.2%	198	201	-1.8%	W	W	W
West North Central	24,429	30,073	-18.8%	756	916	-17.4%	0	0	--
Iowa	5,682	7,486	-24.1%	92	122	-25.1%	0	0	--
Kansas	3,429	4,781	-28.3%	104	111	-6.0%	0	0	--
Minnesota	2,894	3,783	-23.5%	85	124	-31.4%	0	0	--
Missouri	8,116	8,660	-6.3%	322	363	-11.3%	0	0	--
Nebraska	2,608	3,436	-24.1%	92	114	-19.4%	0	0	--
North Dakota	W	W	W	23	30	-23.1%	0	0	--
South Dakota	W	W	W	NM	51	NM	0	0	--
South Atlantic	22,231	29,034	-23.4%	11,035	12,358	-10.7%	W	W	W
Delaware	W	W	W	359	400	-10.2%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	3,909	4,792	-18.4%	5,093	5,635	-9.6%	W	63	W
Georgia	4,816	5,545	-13.2%	742	800	-7.2%	0	0	--
Maryland	846	2,125	-60.2%	564	892	-36.8%	0	0	--
North Carolina	W	5,567	W	1,178	1,247	-5.5%	0	0	--
South Carolina	3,332	4,720	-29.4%	652	690	-5.4%	0	0	--
Virginia	907	1,373	-33.9%	2,320	2,567	-9.6%	0	0	--
West Virginia	4,281	W	W	126	129	-2.1%	W	W	W
East South Central	12,175	16,159	-24.7%	1,770	1,944	-9.0%	W	W	W
Alabama	3,105	3,231	-3.9%	315	330	-4.5%	0	0	--
Kentucky	5,887	8,738	-32.6%	255	240	6.2%	W	W	W
Mississippi	997	1,003	-0.6%	549	558	-1.6%	0	0	--
Tennessee	2,187	3,187	-31.4%	651	816	-20.3%	0	0	--
West South Central	19,253	25,536	-24.6%	1,642	1,734	-5.3%	W	W	W
Arkansas	3,103	2,804	10.6%	169	186	-8.7%	0	0	--
Louisiana	2,610	2,962	-11.9%	364	387	-5.8%	W	W	W
Oklahoma	3,788	4,076	-7.1%	105	105	0.5%	0	0	--
Texas	9,751	15,694	-37.9%	1,003	1,057	-5.1%	0	0	--
Mountain	19,916	21,458	-7.2%	388	384	1.0%	W	W	W
Arizona	3,440	3,808	-9.7%	133	134	-1.2%	0	0	--
Colorado	4,594	4,291	7.1%	133	120	10.7%	0	0	--
Idaho	0	0	--	0	0	-9.1%	0	0	--
Montana	W	W	W	17	20	-14.4%	W	W	W
Nevada	W	W	W	3	6	-48.6%	0	0	--
New Mexico	W	W	W	24	34	-30.0%	0	0	--
Utah	4,793	5,696	-15.8%	42	38	11.2%	0	0	--
Wyoming	4,507	4,977	-9.5%	36	32	12.9%	0	0	--
Pacific Contiguous	W	W	W	318	331	-4.0%	0	0	--
California	0	0	--	152	159	-4.2%	0	0	--
Oregon	W	W	W	65	71	-8.9%	0	0	--
Washington	W	W	W	101	101	-0.2%	0	0	--
Pacific Noncontiguous	W	W	W	2,233	2,254	-1.0%	0	0	--
Alaska	0	W	W	NM	186	NM	0	0	--
Hawaii	W	W	W	2,167	2,068	4.7%	0	0	--
U.S. Total	128,440	162,309	-20.9%	27,131	30,880	-12.1%	1,111	881	26.0%

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 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Divison, May 2018 and 2017

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**May 2018**	**May 2017**	**Percentage Change**	**May 2018**	**May 2017**	**May 2018**	**May 2017**
Coal (Thousand Tons)							
New England	699	W	W	W	W	W	W
Middle Atlantic	3,390	4,469	-24.1%	W	0	W	4,469
East North Central	24,873	32,950	-24.5%	16,681	20,524	8,192	12,427
West North Central	24,429	30,073	-18.8%	24,429	30,073	0	0
South Atlantic	22,231	29,034	-23.4%	20,382	25,730	1,849	3,304
East South Central	12,175	16,159	-24.7%	12,175	16,159	0	0
West South Central	19,253	25,536	-24.6%	13,988	15,081	5,265	10,456
Mountain	19,916	21,458	-7.2%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	0	W	W	W
U.S. Total	**128,440**	**162,309**	**-20.9%**	**107,544**	**129,141**	**20,895**	**33,168**
Petroleum Liquids (Thousand Barrels)							
New England	3,363	4,155	-19.1%	645	643	2,718	3,512
Middle Atlantic	4,575	5,614	-18.5%	1,758	2,284	2,818	3,330
East North Central	1,051	1,189	-11.6%	708	783	343	406
West North Central	756	916	-17.4%	747	890	NM	26
South Atlantic	11,035	12,358	-10.7%	9,378	9,988	1,656	2,370
East South Central	1,770	1,944	-9.0%	1,696	1,871	73	73
West South Central	1,642	1,734	-5.3%	1,283	1,335	359	398
Mountain	388	384	1.0%	358	350	30	34
Pacific Contiguous	318	331	-4.0%	213	234	104	97
Pacific Noncontiguous	2,233	2,254	-1.0%	2,201	2,216	32	38
U.S. Total	**27,131**	**30,880**	**-12.1%**	**18,987**	**20,595**	**8,144**	**10,286**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	518	351	47.8%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	W	63	W	W
East South Central	W	W	W	W	W	0	0
West South Central	W	W	W	W	W	0	0
Mountain	W	W	W	0	0	W	W
Pacific Contiguous	0	0	--	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0
U.S. Total	**1,111**	**881**	**26.0%**	**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, 2008 - May 2018

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
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	67,241	90,376	4,393	162,009
2017	55,941	77,542	3,672	137,155
Year 2016, End of Month Stocks				
January	76,919	105,641	4,643	187,203
February	76,373	106,153	4,537	187,064
March	79,664	107,076	4,813	191,553
April	81,390	106,720	5,075	193,185
May	82,185	105,068	5,164	192,417
June	78,216	98,822	5,048	182,086
July	71,287	92,104	4,727	168,119
August	67,462	87,040	4,406	158,908
Sept	65,962	86,411	4,194	156,567
October	67,250	89,666	4,016	160,932
November	70,537	95,428	4,313	170,277
December	67,241	90,376	4,393	162,009
Year 2017, End of Month Stocks				
January	65,806	86,034	4,335	156,175
February	67,754	88,270	4,424	160,448
March	67,740	89,299	4,651	161,690
April	68,129	90,588	5,005	163,723
May	68,251	88,854	5,204	162,309
June	66,475	86,543	4,701	157,719
July	60,498	80,598	4,281	145,376
August	59,134	77,615	4,972	141,720
Sept	58,380	76,990	3,945	139,315
October	59,036	78,648	3,519	141,204
November	59,342	79,787	4,081	143,210
December	55,941	77,542	3,672	137,155
Year 2018, End of Month Stocks				
January	48,446	72,024	3,028	123,499
February	48,199	69,758	2,909	120,866
March	49,556	73,629	3,213	126,398
April	51,011	74,644	3,324	128,980
May	51,902	73,326	3,212	128,440

Notes: See Glossary for definitions.
Values for 2016 and prior years are final. Values for 2017 and 2018 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), 2008 - May 2018

	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												
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	12,516,272	650,770	2.11	40.64	1.34	93.8	101,810	16,807	9.39	56.89	0.49	68.1
2017	12,142,749	634,118	2.08	39.75	1.29	93.4	94,007	15,619	11.82	71.15	0.49	65.4
Year 2016												
January	1,035,315	54,397	2.12	40.35	1.32	85.5	9,096	1,519	7.96	47.76	0.48	56.2
February	981,062	50,919	2.11	40.62	1.40	97.9	8,023	1,323	7.00	42.51	0.47	52.0
March	896,983	45,720	2.17	42.66	1.46	110.7	6,912	1,140	6.92	41.99	0.45	68.2
April	807,001	41,015	2.16	42.44	1.45	101.8	8,592	1,414	8.37	50.85	0.42	88.7
May	871,890	44,729	2.16	42.13	1.44	96.6	9,231	1,536	9.82	59.07	0.45	82.6
June	1,022,903	53,300	2.10	40.25	1.35	82.6	7,612	1,262	10.41	62.76	0.50	67.3
July	1,155,747	60,545	2.11	40.30	1.28	80.1	9,030	1,466	11.83	72.83	0.51	59.3
August	1,254,473	65,150	2.11	40.61	1.32	86.6	9,118	1,492	9.46	57.81	0.51	62.6
Sept	1,156,705	60,441	2.12	40.58	1.30	95.0	8,154	1,342	9.40	57.14	0.51	76.1
October	1,141,983	59,814	2.07	39.59	1.28	107.2	8,387	1,390	10.01	60.48	0.54	77.1
November	1,097,110	57,377	2.08	39.83	1.29	116.3	9,715	1,599	10.09	61.31	0.50	87.0
December	1,095,100	57,362	2.08	39.64	1.32	86.4	7,939	1,323	10.78	64.72	0.48	60.9
Year 2017												
January	1,099,948	57,463	2.09	40.08	1.26	88.5	9,304	1,546	11.91	71.72	0.46	70.8
February	997,916	52,098	2.07	39.58	1.30	106.1	6,122	1,015	11.61	70.06	0.49	59.5
March	966,998	50,174	2.08	40.17	1.35	100.2	11,990	2,018	11.62	69.01	0.54	111.4
April	893,611	46,168	2.11	40.85	1.34	101.6	6,223	1,033	11.59	69.85	0.48	62.4
May	948,234	49,206	2.13	41.01	1.33	94.5	6,485	1,082	W	W	0.48	56.7
June	1,032,209	53,498	2.11	40.71	1.31	89.0	7,209	1,196	W	W	0.47	63.4
July	1,084,862	56,876	2.09	39.82	1.22	80.1	6,490	1,086	W	W	0.48	54.9
August	1,174,972	61,268	2.08	39.85	1.29	91.4	6,872	1,137	W	W	0.47	61.1
Sept	1,005,155	52,845	2.03	38.55	1.24	94.6	6,394	1,061	W	W	0.49	57.6
October	990,301	51,848	2.03	38.86	1.27	100.9	7,328	1,212	11.87	71.73	0.52	64.7
November	976,444	51,520	2.04	38.67	1.26	98.7	9,313	1,541	12.29	74.29	0.47	85.9
December	972,098	51,155	2.05	38.91	1.27	85.8	10,277	1,693	13.95	84.69	0.47	49.9
Year 2018												
January	951,773	50,275	2.07	39.17	1.24	76.2	29,698	4,948	13.68	82.50	0.48	51.4
February	850,365	44,662	2.07	39.43	1.26	95.0	10,931	1,797	12.60	76.83	0.47	117.8
March	940,506	48,770	2.04	39.42	1.33	106.7	7,265	1,210	W	W	0.42	76.8
April	819,193	42,660	2.07	39.76	1.32	102.2	6,190	1,020	13.71	83.21	0.41	61.5
May	896,833	46,365	2.05	39.69	1.36	95.2	8,731	1,441	14.29	86.68	0.34	74.5
Year to Date												
2016	4,592,252	236,780	2.14	41.55	1.41	97.2	41,854	6,932	8.10	48.92	0.45	66.8
2017	4,906,707	255,108	2.10	40.31	1.31	97.5	40,124	6,694	11.65	69.83	0.50	72.2
2018	4,458,671	232,732	2.06	39.49	1.30	93.4	62,814	10,416	13.55	81.94	0.44	63.8
Rolling 12 Months Ending in May												
2017	12,830,728	669,098	2.10	40.20	1.31	94.0	100,080	16,568	W	W	0.50	70.3
2018	11,694,713	611,742	2.06	39.41	1.28	91.8	116,697	19,341	W	W	0.46	62.5

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

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

- Values for 2016 and prior years are final. Values for 2017 and 2018 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), 2008 - May 2018 (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												
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	116,942	4,166	1.65	46.30	5.40	77.9	10,619,105	10,271,180	2.87	2.97	90.7	2.47
2017	92,837	3,309	W	W	5.56	77.6	8,320,427	8,050,520	3.39	3.51	76.0	W
Year 2016												
January	9,640	341	1.38	38.93	5.68	79.8	826,179	798,251	3.02	3.13	89.9	2.52
February	11,273	408	1.30	35.80	5.53	96.1	736,278	711,506	2.70	2.79	89.6	2.36
March	10,313	363	1.41	40.14	5.33	81.1	797,607	771,918	2.23	2.30	90.4	2.21
April	10,308	369	1.35	37.75	5.56	81.0	773,337	748,523	2.42	2.50	90.9	2.31
May	8,554	307	1.32	36.76	5.35	65.8	857,644	830,896	2.39	2.47	91.1	2.31
June	6,895	240	1.41	40.48	4.67	50.1	1,020,410	988,673	2.67	2.75	91.4	2.39
July	10,032	355	1.47	41.45	5.14	70.8	1,189,145	1,151,122	2.97	3.07	91.3	2.55
August	11,033	398	1.75	48.48	5.42	76.5	1,205,876	1,163,920	2.95	3.06	91.4	2.52
Sept	10,741	381	2.07	58.30	5.17	84.6	968,648	935,630	3.07	3.18	91.1	2.55
October	8,844	317	1.98	55.43	5.69	92.5	795,915	770,111	3.13	3.23	90.3	2.51
November	9,365	333	2.26	63.59	5.69	82.0	718,522	695,273	3.02	3.12	90.4	2.47
December	9,945	355	2.07	57.94	5.43	82.3	729,545	705,358	3.96	4.10	89.9	2.82
Year 2017												
January	7,058	251	2.14	60.16	5.67	58.6	605,951	585,551	4.13	4.28	76.5	2.82
February	7,593	271	2.00	56.03	5.85	83.2	532,100	514,989	3.58	3.70	77.4	2.60
March	8,628	309	2.06	57.51	5.29	86.5	616,876	597,207	3.36	3.47	75.4	2.62
April	5,835	208	2.00	55.96	5.34	93.7	576,199	557,617	3.38	3.49	76.3	2.62
May	6,776	242	2.05	57.46	5.57	61.1	646,012	625,854	3.49	3.60	76.9	W
June	8,657	308	W	W	5.55	71.2	762,486	737,993	3.30	3.41	76.5	W
July	8,498	302	W	W	5.50	73.3	928,993	898,085	3.22	3.33	75.4	W
August	7,972	284	W	W	5.47	77.5	900,262	870,598	3.16	3.27	75.9	W
Sept	7,915	284	W	W	5.43	84.2	759,416	733,714	3.20	3.31	75.6	W
October	8,347	297	W	W	5.61	98.3	692,139	670,324	3.16	3.27	75.4	W
November	7,469	266	W	W	5.67	78.7	600,304	581,428	3.36	3.47	75.1	W
December	8,088	287	2.17	60.99	5.74	82.6	699,688	677,158	3.63	3.75	75.9	2.75
Year 2018												
January	7,009	248	2.38	67.41	5.31	60.1	778,041	753,163	5.03	5.19	82.0	3.50
February	7,769	277	2.43	68.09	5.49	83.0	688,537	667,090	3.61	3.72	85.6	2.79
March	7,841	281	2.54	70.89	5.54	99.3	748,917	724,656	3.18	3.29	84.6	W
April	6,564	232	2.56	72.38	6.09	78.4	705,836	684,139	3.13	3.23	83.5	2.58
May	4,344	152	2.41	68.58	6.09	64.6	818,069	792,700	3.04	3.14	82.4	2.56
Year to Date												
2016	50,088	1,787	1.35	37.85	5.49	80.5	3,991,045	3,861,094	2.55	2.64	90.4	2.35
2017	35,891	1,281	2.05	57.45	5.55	74.1	2,977,139	2,881,219	3.59	3.71	76.5	2.67
2018	33,527	1,190	2.47	69.51	5.66	76.3	3,739,400	3,621,748	3.61	3.72	83.5	2.81
Rolling 12 Months Ending in May												
2017	102,745	3,660	1.94	54.33	5.41	75.3	9,605,200	9,291,304	3.23	3.34	85.9	W
2018	90,473	3,218	W	W	5.60	78.5	9,082,688	8,791,049	3.41	3.53	78.7	W

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

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

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

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2008 - May 2018

	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												
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	9,256,878	476,207	2.16	42.01	1.21	95.4	73,294	11,985	9.16	56.02	0.45	74.0
2017	8,952,220	464,163	2.12	40.91	1.17	95.1	68,548	11,319	11.56	70.00	0.47	71.7
Year 2016												
January	750,914	39,064	2.17	41.71	1.18	85.5	6,190	1,022	7.88	47.74	0.44	58.8
February	722,024	37,129	2.16	41.95	1.23	98.2	5,814	955	6.92	42.16	0.41	64.1
March	685,422	34,609	2.19	43.49	1.34	110.9	5,223	851	6.69	41.07	0.40	77.5
April	612,742	30,953	2.19	43.39	1.31	107.4	6,897	1,126	8.35	51.19	0.37	106.4
May	655,166	33,408	2.17	42.60	1.25	98.5	6,742	1,114	9.12	55.16	0.40	91.7
June	775,536	39,900	2.15	41.79	1.24	85.9	5,511	908	10.51	63.80	0.44	70.9
July	849,005	43,981	2.17	41.99	1.15	81.1	7,117	1,142	11.54	71.91	0.52	66.7
August	925,332	47,610	2.17	42.19	1.19	88.3	6,737	1,090	9.15	56.57	0.51	66.2
Sept	851,137	43,822	2.18	42.34	1.18	97.6	5,514	896	9.00	55.39	0.49	79.2
October	842,651	43,693	2.12	40.99	1.16	110.5	5,205	851	9.80	59.94	0.52	73.4
November	805,502	41,615	2.13	41.25	1.20	117.8	6,780	1,106	9.80	60.07	0.48	88.2
December	781,447	40,423	2.13	41.17	1.21	85.4	5,565	925	10.71	64.43	0.44	65.2
Year 2017												
January	791,895	41,154	2.14	41.26	1.14	87.5	6,498	1,069	11.09	67.38	0.44	72.7
February	732,712	38,088	2.11	40.63	1.20	106.6	4,563	754	11.53	69.80	0.46	64.8
March	702,185	36,293	2.13	41.15	1.21	101.0	10,468	1,759	11.58	68.94	0.53	130.7
April	646,292	33,094	2.15	41.91	1.22	104.4	4,679	774	11.38	68.84	0.46	65.0
May	698,108	35,802	2.16	42.16	1.22	95.2	4,612	764	11.38	68.72	0.45	58.3
June	781,557	40,089	2.13	41.60	1.20	91.1	5,560	915	10.86	66.00	0.47	70.7
July	816,276	42,290	2.12	40.87	1.11	80.9	4,656	774	10.91	65.61	0.45	59.6
August	884,867	45,745	2.11	40.89	1.19	92.8	5,112	839	11.08	67.54	0.46	65.6
Sept	736,582	38,557	2.08	39.78	1.10	97.2	4,752	779	11.75	71.65	0.48	62.0
October	728,591	37,915	2.09	40.19	1.16	103.9	4,858	796	11.98	73.15	0.49	59.6
November	721,520	37,867	2.12	40.30	1.13	104.9	6,681	1,094	12.02	73.45	0.41	92.0
December	711,634	37,270	2.11	40.29	1.11	88.8	6,108	1,002	12.84	78.22	0.42	60.4
Year 2018												
January	690,227	36,292	2.08	39.65	1.11	75.6	12,569	2,096	13.91	83.48	0.43	48.0
February	638,278	33,348	2.10	40.24	1.16	97.5	8,008	1,303	12.43	76.46	0.46	118.0
March	700,041	36,379	2.10	40.33	1.17	111.9	5,017	827	13.19	79.98	0.36	77.4
April	606,452	31,464	2.12	40.91	1.22	102.9	5,034	826	13.61	83.01	0.36	73.0
May	662,814	34,228	2.10	40.66	1.23	96.5	6,271	1,028	14.30	87.26	0.29	78.8
Year to Date												
2016	3,426,268	175,163	2.18	42.58	1.26	98.7	30,866	5,068	7.87	47.96	0.40	76.8
2017	3,571,192	184,430	2.14	41.40	1.20	98.1	30,820	5,119	11.41	68.69	0.49	79.0
2018	3,297,812	171,711	2.10	40.34	1.18	95.0	36,900	6,080	13.52	82.08	0.39	67.7
Rolling 12 Months Ending in May												
2017	9,401,802	485,474	2.15	41.58	1.19	95.2	73,249	12,037	10.65	64.80	0.48	74.8
2018	8,678,839	451,445	2.11	40.49	1.16	93.9	74,628	12,279	12.59	76.52	0.42	67.1

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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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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2008 - May 2018 (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												
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	42.85	5.38	103.1	5,075,337	4,907,538	3.15	3.26	97.0	2.54
2017	90,481	3,224	2.15	60.31	5.55	117.6	3,990,184	3,861,856	3.65	3.77	80.5	2.63
Year 2016												
January	7,935	278	1.15	32.96	5.67	91.8	394,925	382,074	3.27	3.38	97.1	2.57
February	9,837	356	1.13	31.18	5.53	131.0	356,803	344,669	2.96	3.06	96.8	2.43
March	8,402	294	1.21	34.47	5.28	103.8	383,424	371,055	2.53	2.61	97.4	2.33
April	8,436	300	1.14	31.95	5.58	92.1	367,155	355,539	2.72	2.80	97.6	2.42
May	7,842	281	1.22	34.16	5.35	94.9	412,465	399,342	2.68	2.77	97.4	2.40
June	6,325	220	1.33	38.34	4.59	71.4	501,782	485,899	2.88	2.97	96.9	2.46
July	9,587	340	1.43	40.50	5.10	104.6	571,042	552,828	3.20	3.31	96.5	2.62
August	9,306	335	1.62	45.01	5.45	99.4	571,170	551,024	3.23	3.34	96.9	2.59
Sept	9,059	320	2.00	56.51	5.12	102.8	457,872	442,147	3.43	3.55	97.3	2.64
October	7,088	253	1.87	52.47	5.71	146.9	370,666	358,541	3.53	3.65	96.7	2.58
November	7,871	279	2.22	62.85	5.74	116.3	339,777	328,019	3.36	3.48	97.4	2.54
December	8,017	284	1.99	56.17	5.39	108.8	348,255	336,401	4.15	4.30	97.0	2.78
Year 2017												
January	7,058	251	2.14	60.16	5.67	83.3	288,262	278,519	4.35	4.50	83.5	2.77
February	7,593	271	2.00	56.03	5.85	124.3	250,635	242,633	3.83	3.96	84.6	2.58
March	8,628	309	2.06	57.51	5.29	143.9	297,754	288,236	3.56	3.67	81.6	2.64
April	5,835	208	2.00	55.96	5.34	188.7	281,420	272,348	3.52	3.63	82.6	2.60
May	6,776	242	2.05	57.46	5.57	91.5	323,906	314,002	3.71	3.82	83.1	2.68
June	8,386	298	2.14	60.07	5.55	105.5	368,349	356,694	3.57	3.69	80.8	2.63
July	8,245	292	2.11	59.61	5.49	107.5	446,546	431,672	3.48	3.60	77.3	2.62
August	7,676	273	2.11	59.17	5.45	119.8	432,247	418,089	3.46	3.57	78.2	2.58
Sept	7,658	274	2.12	59.07	5.42	130.2	362,507	350,492	3.58	3.70	78.8	2.61
October	7,454	265	2.37	66.84	5.58	154.2	329,450	319,249	3.59	3.70	79.5	2.60
November	7,084	252	2.52	70.93	5.66	107.1	283,335	274,515	3.66	3.78	80.6	2.61
December	8,088	287	2.17	60.99	5.74	123.5	325,771	315,406	3.77	3.90	80.3	2.69
Year 2018												
January	7,009	248	2.38	67.41	5.31	83.4	383,110	370,950	5.14	5.31	87.4	3.29
February	7,769	277	2.43	68.09	5.49	117.9	322,741	312,845	3.84	3.96	90.9	2.76
March	7,841	281	2.54	70.89	5.54	141.5	353,555	342,238	3.50	3.61	90.7	2.61
April	6,564	232	2.56	72.38	6.09	119.0	335,447	325,388	3.31	3.41	89.1	2.60
May	4,344	152	2.41	68.58	6.09	108.3	397,579	385,175	3.25	3.35	85.4	2.60
Year to Date												
2016	42,453	1,509	1.17	32.86	5.48	102.0	1,914,773	1,852,680	2.83	2.92	97.2	2.43
2017	35,891	1,281	2.05	57.45	5.55	115.5	1,441,978	1,395,738	3.79	3.91	83.0	2.66
2018	33,527	1,190	2.47	69.51	5.66	111.6	1,792,432	1,736,596	3.82	3.94	88.5	2.78
Rolling 12 Months Ending in May												
2017	93,143	3,311	1.89	53.06	5.40	108.1	4,602,542	4,450,596	3.49	3.60	92.1	2.62
2018	88,117	3,133	2.31	64.98	5.59	116.1	4,340,638	4,202,714	3.68	3.80	82.8	2.68

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

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2008 - May 2018

	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												
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	3,047,358	164,648	1.93	35.69	1.73	91.8	25,975	4,410	9.93	58.56	0.48	75.1
2017	3,006,924	161,228	1.91	35.67	1.64	91.2	23,608	4,003	12.64	74.53	0.46	69.1
Year 2016												
January	264,906	14,431	1.94	35.56	1.72	87.7	2,670	459	7.86	45.79	0.42	64.8
February	241,497	12,970	1.92	35.76	1.91	101.0	1,867	313	6.94	41.57	0.47	42.4
March	192,217	10,216	2.04	38.36	1.89	117.0	1,484	256	W	W	0.47	66.8
April	178,203	9,323	1.99	38.00	1.97	90.2	1,473	252	W	W	0.50	74.9
May	200,347	10,560	2.08	39.52	2.05	94.7	2,331	396	11.84	69.75	0.48	98.3
June	228,760	12,535	1.87	34.19	1.72	74.5	1,842	312	10.09	59.54	0.47	82.9
July	288,156	15,689	1.89	34.68	1.67	78.4	1,828	310	12.96	76.40	0.45	58.9
August	309,421	16,607	1.89	35.21	1.71	83.3	2,262	383	10.26	60.58	0.48	69.4
Sept	289,363	15,859	1.91	34.96	1.65	90.6	2,478	420	10.16	59.98	0.49	92.3
October	280,681	15,236	1.88	34.66	1.62	101.0	2,885	492	10.39	61.12	0.49	111.5
November	276,435	15,051	1.91	35.16	1.53	117.1	2,652	446	10.79	64.16	0.47	115.5
December	297,372	16,171	1.91	35.08	1.60	91.6	2,202	370	W	W	0.50	65.7
Year 2017												
January	293,070	15,606	1.93	36.35	1.59	94.6	2,679	456	13.98	82.08	0.47	92.8
February	250,099	13,304	1.90	35.74	1.60	108.7	1,438	241	W	W	0.50	63.4
March	247,658	13,058	1.93	36.69	1.75	101.4	1,344	231	12.02	69.90	0.44	80.3
April	231,929	12,350	1.97	37.09	1.66	97.9	1,383	233	W	W	0.44	78.7
May	234,471	12,642	1.99	36.90	1.67	95.0	1,718	293	W	W	0.45	71.9
June	235,473	12,689	2.00	37.14	1.68	85.0	1,507	258	W	W	0.42	62.6
July	253,594	13,865	1.97	36.04	1.55	78.8	1,739	297	W	W	0.48	57.2
August	274,367	14,784	1.94	35.96	1.64	88.9	1,649	280	W	W	0.43	69.4
Sept	254,384	13,609	1.84	34.37	1.64	90.0	1,491	258	W	W	0.42	59.9
October	246,724	13,227	1.83	34.24	1.61	96.5	2,321	393	11.66	68.89	0.50	108.0
November	240,378	12,958	1.79	33.17	1.64	87.0	2,432	415	13.07	76.69	0.56	103.6
December	244,777	13,136	1.84	34.33	1.69	80.0	3,906	648	15.88	95.71	0.43	46.4
Year 2018												
January	246,173	13,243	2.00	37.17	1.62	79.5	16,721	2,787	13.51	81.73	0.48	59.9
February	198,229	10,651	1.94	36.09	1.58	91.7	2,735	465	13.30	78.46	0.44	202.7
March	225,377	11,669	1.85	35.78	1.83	97.5	2,014	345	W	W	0.43	111.6
April	199,704	10,574	1.88	35.57	1.61	105.1	1,003	170	W	W	0.44	48.5
May	219,907	11,453	1.88	36.06	1.78	94.6	2,311	389	14.24	85.04	0.48	89.0
Year to Date												
2016	1,077,170	57,499	1.99	37.22	1.89	96.6	9,824	1,676	8.62	50.57	0.47	65.3
2017	1,257,227	66,960	1.94	36.53	1.65	99.2	8,562	1,455	12.54	73.78	0.46	78.1
2018	1,089,391	57,590	1.91	36.17	1.69	92.3	24,784	4,155	13.64	81.84	0.47	69.5
Rolling 12 Months Ending in May												
2017	3,227,415	174,109	1.91	35.51	1.65	92.9	24,713	4,189	W	W	0.47	81.1
2018	2,839,088	151,858	1.90	35.48	1.65	88.4	39,830	6,703	W	W	0.47	67.7

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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.

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2008 - May 2018 (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												
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	13,573	492	2.50	68.88	5.44	69.9	4,791,729	4,634,518	2.54	2.63	94.0	W
2017	0	0	--	--	--	0.0	3,663,287	3,542,886	3.07	3.18	79.5	2.52
Year 2016												
January	1,305	49	W	W	5.70	182.6	366,954	353,940	2.80	2.91	93.1	W
February	1,314	47	W	W	5.44	97.1	322,866	312,018	2.43	2.52	93.5	W
March	1,337	48	W	W	5.37	65.3	353,542	341,974	1.89	1.95	94.0	W
April	1,203	44	W	W	5.30	88.5	345,599	334,192	2.07	2.14	94.3	W
May	506	18	W	W	5.28	30.6	384,972	373,040	2.04	2.11	94.6	W
June	348	12	W	W	5.32	20.5	457,044	442,942	2.41	2.49	94.4	W
July	223	8	W	W	5.67	12.1	552,956	535,139	2.66	2.75	94.4	W
August	1,510	55	W	W	5.24	77.3	569,120	549,584	2.62	2.71	94.3	W
Sept	1,483	53	W	W	5.43	90.7	448,820	433,556	2.61	2.70	94.1	W
October	1,549	56	W	W	5.59	78.5	362,466	350,675	2.60	2.69	94.0	W
November	1,294	47	W	W	5.43	83.4	313,867	304,227	2.59	2.67	93.5	W
December	1,501	55	W	W	5.50	84.2	313,521	303,233	3.83	3.95	93.6	W
Year 2017												
January	0	0	--	--	--	0.0	259,636	250,896	3.97	4.11	79.9	2.84
February	0	0	--	--	--	0.0	227,496	220,081	3.33	3.44	80.9	W
March	0	0	--	--	--	0.0	263,669	255,227	3.21	3.31	78.3	2.55
April	0	0	--	--	--	0.0	241,451	233,602	3.19	3.30	79.4	W
May	0	0	--	--	--	0.0	269,235	260,637	3.19	3.29	79.4	W
June	0	0	--	--	--	0.0	339,166	328,064	2.92	3.02	79.5	W
July	0	0	--	--	--	0.0	423,924	409,779	2.86	2.96	79.4	W
August	0	0	--	--	--	0.0	412,138	398,444	2.76	2.85	79.9	W
Sept	0	0	--	--	--	0.0	342,641	330,729	2.68	2.78	79.2	W
October	0	0	--	--	--	0.0	310,113	300,091	2.60	2.69	79.3	2.26
November	0	0	--	--	--	0.0	261,523	253,222	3.02	3.12	78.6	2.41
December	0	0	--	--	--	0.0	312,295	302,115	3.57	3.69	80.5	2.82
Year 2018												
January	0	0	--	--	--	0.0	325,769	315,170	5.25	5.42	85.1	3.96
February	0	0	--	--	--	0.0	305,540	295,788	3.34	3.45	90.7	2.77
March	0	0	--	--	--	0.0	334,931	323,699	2.85	2.95	88.7	W
April	0	0	--	--	--	0.0	309,434	299,510	2.93	3.03	87.4	W
May	0	0	--	--	--	0.0	357,868	346,719	2.77	2.86	86.7	2.43
Year to Date												
2016	5,665	206	2.50	68.66	5.44	80.2	1,773,934	1,715,163	2.24	2.32	93.9	W
2017	0	0	--	--	--	0.0	1,261,487	1,220,442	3.38	3.49	79.6	2.62
2018	0	0	--	--	--	0.0	1,633,543	1,580,886	3.43	3.54	87.6	2.84
Rolling 12 Months Ending in May												
2017	7,908	286	W	W	5.44	42.3	4,279,282	4,139,797	2.91	3.01	89.3	W
2018	0	0	--	--	--	0.0	4,035,342	3,903,330	3.11	3.22	82.6	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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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2008 - May 2018

	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												
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	8.3	0	0	--	--	--	0.0
2017	548	24	W	W	2.99	4.0	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	7.2	0	0	--	--	--	0.0
March	163	7	W	W	3.03	9.7	0	0	--	--	--	0.0
April	9	0	W	W	2.98	0.9	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	8.2	0	0	--	--	--	0.0
Sept	153	7	W	W	3.14	13.5	0	0	--	--	--	0.0
October	159	7	W	W	3.15	14.1	0	0	--	--	--	0.0
November	237	10	W	W	3.04	17.6	0	0	--	--	--	0.0
December	214	9	W	W	3.05	12.5	0	0	--	--	--	0.0
Year 2017												
January	111	5	W	W	2.99	7.4	0	0	--	--	--	0.0
February	91	4	W	W	2.95	7.4	0	0	--	--	--	0.0
March	104	5	W	W	3.02	7.8	0	0	--	--	--	0.0
April	1	0	W	W	2.96	0.1	0	0	--	--	--	0.0
May	11	0	W	W	3.23	1.2	0	0	--	--	--	0.0
June	17	1	W	W	3.02	1.6	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	4	0	W	W	2.77	0.3	0	0	--	--	--	0.0
Sept	72	3	W	W	2.96	6.7	0	0	--	--	--	0.0
October	35	2	W	W	2.96	3.5	0	0	--	--	--	0.0
November	13	1	W	W	3.04	1.2	0	0	--	--	--	0.0
December	89	4	W	W	3.01	6.4	0	0	--	--	--	0.0
Year 2018												
January	95	4	W	W	3.11	6.0	0	0	--	--	--	0.0
February	31	1	W	W	3.19	2.6	0	0	--	--	--	0.0
March	5	0	W	W	3.16	0.4	0	0	--	--	--	0.0
April	0	0	--	--	--	0.0	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Year to Date												
2016	434	19	W	W	2.92	6.3	0	0	--	--	--	0.0
2017	319	14	W	W	3.00	5.4	0	0	--	--	--	0.0
2018	130	6	W	W	3.13	2.2	0	0	--	--	--	0.0
Rolling 12 Months Ending in May												
2017	1,173	52	W	W	3.06	8.1	0	0	--	--	--	0.0
2018	359	16	W	W	3.04	2.6	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, 2008 - May 2018 (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												
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	6.1	W
2017	0	0	--	--	--	0.0	7,841	7,593	W	W	6.3	W
Year 2016												
January	0	0	--	--	--	0.0	1,241	1,203	W	W	11.3	W
February	0	0	--	--	--	0.0	488	477	W	W	4.9	W
March	0	0	--	--	--	0.0	620	610	W	W	6.2	W
April	0	0	--	--	--	0.0	578	567	W	W	6.1	W
May	0	0	--	--	--	0.0	599	587	W	W	6.1	W
June	0	0	--	--	--	0.0	599	585	W	W	5.3	W
July	0	0	--	--	--	0.0	691	667	W	W	5.0	W
August	0	0	--	--	--	0.0	802	765	W	W	5.6	W
Sept	0	0	--	--	--	0.0	610	591	W	W	5.3	W
October	0	0	--	--	--	0.0	598	575	W	W	5.9	W
November	0	0	--	--	--	0.0	613	589	W	W	6.8	W
December	0	0	--	--	--	0.0	568	549	W	W	5.3	W
Year 2017												
January	0	0	--	--	--	0.0	662	639	W	W	5.6	W
February	0	0	--	--	--	0.0	646	624	W	W	6.3	W
March	0	0	--	--	--	0.0	680	662	W	W	6.4	W
April	0	0	--	--	--	0.0	502	490	W	W	5.7	W
May	0	0	--	--	--	0.0	497	483	W	W	5.4	W
June	0	0	--	--	--	0.0	615	595	W	W	6.0	W
July	0	0	--	--	--	0.0	636	613	W	W	5.7	W
August	0	0	--	--	--	0.0	809	778	W	W	7.4	W
Sept	0	0	--	--	--	0.0	707	685	W	W	6.9	W
October	0	0	--	--	--	0.0	605	588	W	W	6.0	W
November	0	0	--	--	--	0.0	749	725	W	W	7.5	W
December	0	0	--	--	--	0.0	734	711	W	W	6.6	W
Year 2018												
January	0	0	--	--	--	0.0	844	818	W	W	7.2	W
February	0	0	--	--	--	0.0	709	688	W	W	6.7	W
March	0	0	--	--	--	0.0	768	746	W	W	7.2	W
April	0	0	--	--	--	0.0	732	713	W	W	7.4	W
May	0	0	--	--	--	0.0	776	758	W	W	8.0	W
Year to Date												
2016	0	0	--	--	--	0.0	3,526	3,445	W	W	7.0	W
2017	0	0	--	--	--	0.0	2,986	2,897	W	W	5.9	W
2018	0	0	--	--	--	0.0	3,829	3,723	W	W	7.3	W
Rolling 12 Months Ending in May												
2017	0	0	--	--	--	0.0	7,465	7,218	W	W	5.7	W
2018	0	0	--	--	--	0.0	8,684	8,419	W	W	6.9	W

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

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- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2008 - May 2018

	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												
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	210,749	9,859	W	W	1.30	67.0	2,541	412	10.51	64.79	1.27	18.3
2017	183,058	8,703	W	W	1.29	64.8	1,850	297	11.18	69.57	1.42	16.2
Year 2016												
January	19,357	897	W	W	1.36	64.2	237	38	11.34	71.47	1.49	18.7
February	17,418	814	W	W	1.42	63.5	342	55	8.70	53.76	1.16	19.8
March	19,181	888	W	W	1.29	69.7	205	33	W	W	1.18	18.5
April	16,048	739	W	W	1.43	68.7	222	36	W	W	1.36	20.8
May	16,376	761	2.67	57.42	1.39	64.6	158	26	11.79	72.81	1.49	11.7
June	18,607	865	2.66	57.25	1.25	69.6	259	42	10.38	64.15	1.45	21.3
July	18,586	875	2.64	56.18	1.23	66.2	85	14	11.10	68.65	1.14	7.1
August	19,629	929	W	W	1.16	71.9	119	19	11.84	73.14	1.11	12.4
Sept	16,052	753	W	W	1.20	65.1	162	27	11.67	71.25	1.12	16.5
October	18,491	879	W	W	1.25	78.1	297	48	10.34	63.78	1.20	25.7
November	14,936	701	W	W	1.27	64.1	283	47	10.57	63.80	1.30	30.7
December	16,067	759	W	W	1.33	59.3	172	28	W	W	1.12	18.0
Year 2017												
January	14,872	698	W	W	1.31	54.1	128	21	11.64	72.27	1.06	12.7
February	15,014	702	W	W	1.10	64.5	121	19	W	W	1.36	16.3
March	17,051	819	W	W	1.28	69.8	178	29	10.66	66.36	1.22	21.7
April	15,389	724	W	W	1.17	67.9	160	26	W	W	1.27	17.8
May	15,645	762	W	W	1.10	69.4	155	25	W	W	1.21	16.0
June	15,163	720	W	W	1.32	65.8	142	23	W	W	1.11	15.0
July	14,992	721	2.47	51.34	1.23	68.8	95	15	W	W	1.30	12.2
August	15,734	738	W	W	1.30	69.3	110	18	W	W	1.55	12.6
Sept	14,117	677	W	W	1.10	65.7	151	24	W	W	1.51	19.3
October	14,951	704	W	W	1.30	61.3	149	24	11.43	71.09	1.58	16.4
November	14,533	694	W	W	1.38	60.8	199	32	11.67	72.03	1.71	19.3
December	15,598	744	W	W	1.87	63.1	263	42	11.14	69.14	1.79	16.1
Year 2018												
January	15,278	735	W	W	1.12	57.9	408	65	12.64	79.32	1.32	16.1
February	13,828	662	W	W	1.26	58.5	187	30	11.38	71.32	1.20	20.2
March	15,083	722	W	W	1.24	61.8	234	38	W	W	1.32	23.5
April	13,037	622	2.53	53.03	1.29	59.7	153	24	W	W	1.23	17.6
May	14,112	684	2.53	52.15	1.18	64.0	149	24	14.33	87.27	1.47	16.0
Year to Date												
2016	88,379	4,099	W	W	1.37	66.0	1,164	188	9.79	60.61	1.31	17.8
2017	77,970	3,704	W	W	1.19	64.8	741	119	11.34	70.61	1.23	16.7
2018	71,338	3,425	W	W	1.22	60.3	1,131	181	12.73	79.50	1.30	18.1
Rolling 12 Months Ending in May												
2017	200,339	9,464	W	W	1.22	66.5	2,118	343	W	W	1.23	17.9
2018	176,426	8,423	W	W	1.30	62.9	2,240	359	W	W	1.43	16.9

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W = Withheld to avoid disclosure of individual company data.

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

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- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2008 - May 2018 (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												
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	11.2	744,034	721,358	W	W	59.6	W
2017	2,356	85	W	W	5.84	8.7	659,116	638,186	W	W	52.1	W
Year 2016												
January	400	15	W	W	5.94	15.3	63,059	61,034	W	W	59.0	W
February	122	4	W	W	6.10	4.3	56,120	54,342	W	W	57.2	W
March	574	21	W	W	5.88	23.8	60,020	58,279	W	W	58.9	W
April	669	25	W	W	5.81	31.0	60,005	58,224	W	W	61.3	W
May	206	8	W	W	5.64	7.0	59,608	57,927	W	W	59.3	W
June	222	8	W	W	5.94	7.0	60,985	59,247	W	W	58.7	W
July	222	8	W	W	5.94	7.0	64,456	62,488	W	W	58.3	W
August	217	8	W	W	5.81	7.2	64,784	62,548	W	W	57.7	W
Sept	200	8	W	W	5.64	9.6	61,346	59,335	W	W	58.7	W
October	207	8	W	W	5.66	7.9	62,185	60,320	W	W	60.7	W
November	200	8	W	W	5.47	7.0	64,265	62,438	W	W	63.4	W
December	427	16	W	W	5.99	15.4	67,201	65,176	W	W	62.7	W
Year 2017												
January	0	0	--	--	--	0.0	57,392	55,497	W	W	52.1	W
February	0	0	--	--	--	0.0	53,322	51,652	W	W	53.4	W
March	0	0	--	--	--	0.0	54,774	53,082	W	W	51.6	W
April	0	0	--	--	--	0.0	52,826	51,178	W	W	52.2	W
May	0	0	--	--	--	0.0	52,374	50,733	W	W	51.3	W
June	271	9	W	W	5.75	9.5	54,356	52,640	W	W	52.5	W
July	253	9	W	W	5.85	10.1	57,887	56,022	W	W	52.4	W
August	296	11	W	W	5.85	12.0	55,068	53,287	W	W	51.8	W
Sept	257	9	W	W	5.85	11.9	53,561	51,809	W	W	52.7	W
October	893	32	W	W	5.85	38.1	51,971	50,395	W	W	50.5	W
November	386	14	W	W	5.85	17.6	54,697	52,966	W	W	52.0	W
December	0	0	--	--	--	0.0	60,888	58,925	W	W	52.1	W
Year 2018												
January	0	0	--	--	--	0.0	68,317	66,225	W	W	58.9	W
February	0	0	--	--	--	0.0	59,546	57,769	W	W	58.2	W
March	0	0	--	--	--	0.0	59,663	57,973	W	W	55.8	W
April	0	0	--	--	--	0.0	60,223	58,528	W	W	57.4	W
May	0	0	--	--	--	0.0	61,846	60,048	W	W	58.9	W
Year to Date												
2016	1,970	73	W	W	5.86	15.2	298,812	289,807	W	W	59.1	W
2017	0	0	--	--	--	0.0	270,688	262,142	W	W	52.1	W
2018	0	0	--	--	--	0.0	309,596	300,543	W	W	57.8	W
Rolling 12 Months Ending in May												
2017	1,693	63	W	W	5.81	5.6	715,910	693,694	W	W	56.7	W
2018	2,356	85	W	W	5.84	9.2	698,024	676,586	W	W	54.4	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.
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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 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, May 2018 and 2017
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	71	3	NM	0	0	71	3	0	0	0	0
Connecticut	67	0	--	0	0	67	0	0	0	0	0
Maine	4	3	30.0%	0	0	4	3	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	1,491	1,539	-3.2%	0	0	1,480	1,515	0	0	11	24
New Jersey	38	50	-24.0%	0	0	38	50	0	0	0	0
New York	0	38	-100.0%	0	0	0	14	0	0	0	24
Pennsylvania	1,453	1,451	0.1%	0	0	1,442	1,451	0	0	11	0
East North Central	11,126	10,890	2.2%	6,845	6,973	4,135	3,740	0	0	145	176
Illinois	3,245	2,808	16.0%	751	513	2,363	2,133	0	0	132	162
Indiana	2,422	2,430	-0.3%	2,247	2,311	175	119	0	0	0	0
Michigan	2,117	2,244	-5.7%	2,082	2,209	35	35	0	0	1	0
Ohio	1,988	1,948	2.1%	426	495	1,563	1,453	0	0	0	0
Wisconsin	1,353	1,459	-7.2%	1,340	1,445	0	0	0	0	13	14
West North Central	8,658	8,309	4.2%	8,347	7,980	0	0	0	0	311	328
Iowa	1,205	1,009	19.0%	1,015	805	0	0	0	0	189	205
Kansas	909	586	55.0%	909	586	0	0	0	0	0	0
Minnesota	1,031	752	37.0%	972	692	0	0	0	0	59	60
Missouri	2,841	2,984	-4.8%	2,841	2,984	0	0	0	0	0	0
Nebraska	947	875	8.2%	884	811	0	0	0	0	63	64
North Dakota	1,571	1,932	-19.0%	1,571	1,932	0	0	0	0	0	0
South Dakota	155	170	-8.8%	155	170	0	0	0	0	0	0
South Atlantic	6,607	7,687	-14.0%	5,573	6,845	960	767	0	0	74	75
Delaware	0	47	-100.0%	0	0	0	47	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,121	1,489	-25.0%	1,111	1,479	0	0	0	0	10	11
Georgia	932	1,407	-34.0%	915	1,401	0	0	0	0	17	7
Maryland	338	190	78.0%	0	0	321	176	0	0	17	14
North Carolina	893	1,066	-16.0%	856	1,026	15	12	0	0	22	29
South Carolina	462	532	-13.0%	462	532	0	0	0	0	0	0
Virginia	493	569	-13.0%	429	509	55	45	0	0	8	15
West Virginia	2,368	2,386	-0.8%	1,799	1,899	569	487	0	0	0	0
East South Central	5,009	5,104	-1.9%	4,631	4,752	302	282	0	0	76	70
Alabama	1,347	1,133	19.0%	1,347	1,133	0	0	0	0	0	0
Kentucky	2,839	2,622	8.3%	2,839	2,622	0	0	0	0	0	0
Mississippi	444	373	19.0%	142	91	302	282	0	0	0	0
Tennessee	379	976	-61.0%	303	906	0	0	0	0	76	70
West South Central	7,721	9,265	-17.0%	3,864	3,745	3,835	5,485	0	0	22	36
Arkansas	1,149	672	71.0%	911	634	232	33	0	0	7	5
Louisiana	515	816	-37.0%	367	536	148	280	0	0	0	0
Oklahoma	387	414	-6.5%	295	290	76	93	0	0	15	31
Texas	5,670	7,363	-23.0%	2,291	2,285	3,379	5,078	0	0	0	0
Mountain	5,441	6,079	-11.0%	4,953	5,492	488	579	0	0	0	9
Arizona	1,016	1,084	-6.3%	1,016	1,084	0	0	0	0	0	0
Colorado	1,060	1,032	2.8%	1,060	1,032	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	380	481	-21.0%	6	20	374	461	0	0	0	0
Nevada	30	46	-35.0%	0	0	30	46	0	0	0	0
New Mexico	582	716	-19.0%	582	716	0	0	0	0	0	0
Utah	901	1,052	-14.0%	864	1,006	37	37	0	0	0	9
Wyoming	1,472	1,668	-12.0%	1,425	1,634	47	34	0	0	0	0
Pacific Contiguous	165	255	-35.0%	0	0	121	211	0	0	44	44
California	44	44	-0.8%	0	0	0	0	0	0	44	44
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	121	211	-42.0%	0	0	121	211	0	0	0	0
Pacific Noncontiguous	76	75	1.4%	16	15	60	60	0	0	0	0
Alaska	16	15	6.6%	16	15	0	0	0	0	0	0
Hawaii	60	60	0.1%	0	0	60	60	0	0	0	0
U.S. Total	46,365	49,206	-5.8%	34,228	35,802	11,453	12,642	0	0	684	762

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W = Withheld to avoid disclosure of individual company data.

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

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

Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, (Year-to-Date) May 2018 and 2017
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	144	164	-12.0%	45	45	99	119	0	0	0	0
Connecticut	67	0	--	0	0	67	0	0	0	0	0
Maine	32	33	-2.2%	0	0	32	33	0	0	0	0
Massachusetts	0	87	-100.0%	0	0	0	87	0	0	0	0
New Hampshire	45	45	0.7%	45	45	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	8,128	8,354	-2.7%	0	0	8,075	8,193	0	0	52	161
New Jersey	273	253	7.7%	0	0	273	253	0	0	0	0
New York	172	177	-2.5%	0	0	163	70	0	0	9	106
Pennsylvania	7,683	7,925	-3.1%	0	0	7,639	7,870	0	0	44	55
East North Central	53,145	55,033	-3.4%	31,702	32,440	20,642	21,767	0	0	802	826
Illinois	17,413	16,744	4.0%	3,540	3,376	13,088	12,573	0	0	785	795
Indiana	12,026	11,453	5.0%	11,227	10,830	798	623	0	0	0	0
Michigan	7,181	8,135	-12.0%	7,115	8,058	62	72	0	0	3	5
Ohio	9,060	11,199	-19.0%	2,367	2,699	6,693	8,499	0	0	0	0
Wisconsin	7,465	7,503	-0.5%	7,452	7,476	0	0	0	0	13	27
West North Central	44,473	44,966	-1.1%	43,144	43,584	0	0	6	14	1,323	1,369
Iowa	5,625	5,378	4.6%	4,709	4,501	0	0	0	0	917	877
Kansas	4,350	4,410	-1.3%	4,350	4,410	0	0	0	0	0	0
Minnesota	4,637	4,951	-6.4%	4,577	4,759	0	0	0	0	59	192
Missouri	14,465	15,120	-4.3%	14,460	15,106	0	0	6	14	0	0
Nebraska	4,849	5,237	-7.4%	4,502	4,937	0	0	0	0	347	300
North Dakota	9,859	9,336	5.6%	9,859	9,336	0	0	0	0	0	0
South Dakota	687	535	28.0%	687	535	0	0	0	0	0	0
South Atlantic	31,350	37,085	-15.0%	26,461	32,313	4,459	4,311	0	0	430	461
Delaware	0	188	-100.0%	0	0	0	188	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,645	6,321	-27.0%	4,600	6,245	0	13	0	0	44	63
Georgia	5,313	7,054	-25.0%	5,244	7,014	0	0	0	0	68	40
Maryland	1,720	1,733	-0.8%	0	0	1,626	1,646	0	0	93	87
North Carolina	4,684	5,603	-16.0%	4,535	5,423	35	28	0	0	114	152
South Carolina	2,344	2,831	-17.0%	2,341	2,812	0	0	0	0	3	19
Virginia	2,077	2,595	-20.0%	1,760	2,338	211	158	0	0	106	100
West Virginia	10,568	10,760	-1.8%	7,980	8,482	2,587	2,278	0	0	0	0
East South Central	22,879	25,420	-10.0%	21,298	23,827	1,174	1,176	0	0	407	417
Alabama	6,627	6,064	9.3%	6,627	6,064	0	0	0	0	0	0
Kentucky	12,298	14,565	-16.0%	12,298	14,565	0	0	0	0	0	0
Mississippi	1,774	1,516	17.0%	600	339	1,174	1,176	0	0	0	0
Tennessee	2,181	3,276	-33.0%	1,773	2,859	0	0	0	0	407	417
West South Central	39,337	47,315	-17.0%	21,089	20,474	18,088	26,642	0	0	160	198
Arkansas	6,141	4,444	38.0%	4,951	4,215	1,150	197	0	0	40	32
Louisiana	2,704	3,647	-26.0%	1,653	2,203	1,052	1,444	0	0	0	0
Oklahoma	3,794	3,549	6.9%	3,269	2,980	406	402	0	0	120	167
Texas	26,698	35,675	-25.0%	11,216	11,076	15,481	24,600	0	0	0	0
Mountain	31,782	35,210	-9.7%	27,897	31,507	3,885	3,695	0	0	0	9
Arizona	6,572	6,441	2.0%	6,572	6,441	0	0	0	0	0	0
Colorado	5,838	6,429	-9.2%	5,838	6,429	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3,371	3,202	5.3%	71	112	3,300	3,090	0	0	0	0
Nevada	212	227	-6.6%	0	0	212	227	0	0	0	0
New Mexico	2,369	4,527	-48.0%	2,369	4,527	0	0	0	0	0	0
Utah	4,497	4,953	-9.2%	4,332	4,783	165	162	0	0	0	9
Wyoming	8,923	9,430	-5.4%	8,715	9,215	208	216	0	0	0	0
Pacific Contiguous	1,117	1,245	-10.0%	0	165	866	817	0	0	250	263
California	250	263	-4.9%	0	0	0	0	0	0	250	263
Oregon	0	165	-100.0%	0	165	0	0	0	0	0	0
Washington	866	817	6.0%	0	0	866	817	0	0	0	0
Pacific Noncontiguous	378	315	20.0%	76	75	302	240	0	0	0	0
Alaska	76	75	1.5%	76	75	0	0	0	0	0	0
Hawaii	302	240	26.0%	0	0	302	240	0	0	0	0
U.S. Total	232,732	255,108	-8.8%	171,711	184,430	57,590	66,960	6	14	3,425	3,704

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

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

Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, May 2018 and 2017
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	77	3	NM	0	1	77	2	0	0	0	0
Connecticut	24	1	NM	0	0	24	1	0	0	0	0
Maine	2	1	325.0%	0	0	2	1	0	0	0	0
Massachusetts	52	0	NM	0	0	52	0	0	0	0	0
New Hampshire	0	1	-91.0%	0	1	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	208	58	255.0%	106	10	94	37	0	0	7	11
New Jersey	31	1	NM	0	0	31	1	0	0	0	0
New York	142	18	693.0%	106	10	36	3	0	0	0	5
Pennsylvania	35	40	-13.0%	0	0	28	33	0	0	7	6
East North Central	79	80	-0.8%	28	33	48	44	0	0	3	3
Illinois	7	9	-23.0%	0	1	7	8	0	0	0	0
Indiana	10	18	-43.0%	10	18	0	0	0	0	0	0
Michigan	15	10	59.0%	15	9	0	0	0	0	0	1
Ohio	46	42	8.4%	2	4	41	36	0	0	3	2
Wisconsin	1	2	-19.0%	1	2	0	0	0	0	0	0
West North Central	45	37	23.0%	45	37	0	0	0	0	0	0
Iowa	6	13	-52.0%	6	13	0	0	0	0	0	0
Kansas	13	9	39.0%	13	9	0	0	0	0	0	0
Minnesota	2	3	-41.0%	2	3	0	0	0	0	0	0
Missouri	13	7	77.0%	13	7	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	10	4	135.0%	10	4	0	0	0	0	0	0
South Dakota	2	0	--	2	0	0	0	0	0	0	0
South Atlantic	179	145	24.0%	152	121	14	13	0	0	14	11
Delaware	2	0	--	0	0	2	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	50	76	-35.0%	48	73	0	0	0	0	2	3
Georgia	9	16	-40.0%	9	13	0	0	0	0	1	3
Maryland	5	11	-58.0%	0	0	5	11	0	0	0	0
North Carolina	22	21	4.5%	20	18	0	0	0	0	2	3
South Carolina	13	7	84.0%	11	7	0	0	0	0	1	0
Virginia	50	8	552.0%	35	5	8	1	0	0	8	2
West Virginia	28	6	404.0%	28	6	0	0	0	0	0	0
East South Central	24	37	-34.0%	23	37	0	0	0	0	1	0
Alabama	2	4	-56.0%	2	4	0	0	0	0	0	0
Kentucky	15	16	-3.0%	15	16	0	0	0	0	0	0
Mississippi	2	1	27.0%	2	1	0	0	0	0	0	0
Tennessee	6	16	-65.0%	5	16	0	0	0	0	1	0
West South Central	23	33	-30.0%	22	18	2	15	0	0	0	0
Arkansas	10	17	-43.0%	10	8	0	9	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	-1.4%	1	1	0	0	0	0	0	0
Texas	13	15	-17.0%	11	9	2	6	0	0	0	0
Mountain	31	38	-18.0%	25	35	6	3	0	0	0	0
Arizona	3	10	-73.0%	3	10	0	0	0	0	0	0
Colorado	2	1	202.0%	2	1	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	5	2	187.0%	0	0	5	2	0	0	0	0
Nevada	4	2	170.0%	4	1	0	1	0	0	0	0
New Mexico	0	6	-100.0%	0	6	0	0	0	0	0	0
Utah	11	5	126.0%	11	5	0	0	0	0	0	0
Wyoming	7	13	-49.0%	7	13	0	0	0	0	0	0
Pacific Contiguous	2	1	35.0%	0	0	2	1	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2	1	35.0%	0	0	2	1	0	0	0	0
Pacific Noncontiguous	772	650	19.0%	625	472	146	178	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	772	650	19.0%	625	472	146	178	0	0	0	0
U.S. Total	1,441	1,082	33.0%	1,028	764	389	293	0	0	24	25

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

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

Table 4.7.B. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) May 2018 and 2017
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	1,085	191	467.0%	114	9	971	182	0	0	0	0
Connecticut	130	20	559.0%	0	0	130	20	0	0	0	0
Maine	253	85	199.0%	0	0	253	85	0	0	0	0
Massachusetts	420	78	439.0%	12	0	408	78	0	0	0	0
New Hampshire	182	9	NM	102	9	80	0	0	0	0	0
Rhode Island	100	0	--	0	0	100	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,499	432	478.0%	744	171	1,712	220	0	0	43	41
New Jersey	167	2	NM	0	0	167	2	0	0	0	0
New York	1,801	265	580.0%	744	171	1,046	79	0	0	11	15
Pennsylvania	531	165	221.0%	0	0	499	139	0	0	32	26
East North Central	345	305	13.0%	188	170	142	123	0	0	15	12
Illinois	35	41	-16.0%	1	1	34	40	0	0	0	0
Indiana	68	74	-8.4%	67	74	1	0	0	0	0	0
Michigan	69	51	35.0%	65	46	0	0	0	0	4	5
Ohio	139	127	9.3%	31	37	97	83	0	0	11	7
Wisconsin	35	12	195.0%	24	12	11	0	0	0	0	0
West North Central	209	179	17.0%	209	179	0	0	0	0	0	0
Iowa	63	45	42.0%	63	45	0	0	0	0	0	0
Kansas	41	42	-1.6%	41	42	0	0	0	0	0	0
Minnesota	6	9	-37.0%	6	9	0	0	0	0	0	0
Missouri	68	38	79.0%	68	38	0	0	0	0	0	0
Nebraska	2	0	--	2	0	0	0	0	0	0	0
North Dakota	27	40	-32.0%	27	40	0	0	0	0	0	0
South Dakota	2	5	-60.0%	2	5	0	0	0	0	0	0
South Atlantic	2,358	1,600	47.0%	1,633	1,423	604	115	0	0	121	61
Delaware	71	6	NM	0	0	71	6	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	248	1,131	-78.0%	228	1,118	0	0	0	0	20	14
Georgia	146	77	89.0%	95	59	25	3	0	0	26	16
Maryland	360	51	603.0%	0	0	360	51	0	0	0	0
North Carolina	625	143	337.0%	601	128	0	1	0	0	24	14
South Carolina	252	50	405.0%	179	40	43	0	0	0	30	10
Virginia	519	76	580.0%	415	15	84	54	0	0	21	7
West Virginia	136	65	110.0%	116	65	20	0	0	0	0	0
East South Central	179	168	6.9%	119	160	58	4	0	0	2	4
Alabama	91	23	303.0%	33	18	58	4	0	0	0	0
Kentucky	54	78	-31.0%	54	78	0	0	0	0	0	0
Mississippi	9	8	11.0%	9	8	0	0	0	0	0	0
Tennessee	26	59	-56.0%	24	55	0	0	0	0	2	4
West South Central	75	106	-29.0%	57	42	18	64	0	0	0	0
Arkansas	23	44	-47.0%	17	14	6	30	0	0	0	0
Louisiana	3	0	--	3	0	0	0	0	0	0	0
Oklahoma	15	3	360.0%	15	3	0	0	0	0	0	0
Texas	33	59	-44.0%	21	25	12	34	0	0	0	0
Mountain	125	160	-22.0%	115	147	10	13	0	0	0	0
Arizona	42	31	34.0%	42	31	0	0	0	0	0	0
Colorado	4	1	287.0%	4	1	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	7	8	-10.0%	0	0	7	8	0	0	0	0
Nevada	6	4	55.0%	4	1	2	3	0	0	0	0
New Mexico	9	33	-74.0%	9	33	0	0	0	0	0	0
Utah	39	41	-3.2%	38	39	1	2	0	0	0	0
Wyoming	18	43	-57.0%	18	43	0	0	0	0	0	0
Pacific Contiguous	2	14	-89.0%	0	7	2	7	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	7	-100.0%	0	7	0	0	0	0	0	0
Washington	2	7	-78.0%	0	0	2	7	0	0	0	0
Pacific Noncontiguous	3,538	3,538	0.0%	2,900	2,812	638	726	0	0	0	0
Alaska	0	1	-100.0%	0	1	0	0	0	0	0	0
Hawaii	3,538	3,537	0.0%	2,900	2,811	638	726	0	0	0	0
U.S. Total	10,416	6,694	56.0%	6,080	5,119	4,155	1,455	0	0	181	119

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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, May 2018 and 2017
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
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	39	49	-20.0%	39	49	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	36	47	-24.0%	36	47	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	2	89.0%	3	2	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	28	-100.0%	0	28	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	28	-100.0%	0	28	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	8	-100.0%	0	8	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	8	-100.0%	0	8	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	114	158	-28.0%	114	158	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	114	158	-28.0%	114	158	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	152	242	-37.0%	152	242	0	0	0	0	0	0

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

Notes:
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 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) May 2018 and 2017
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 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	262	196	34.0%	262	196	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	237	186	27.0%	237	186	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	25	10	159.0%	25	10	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	375	200	87.0%	375	200	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	375	200	87.0%	375	200	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	114	-100.0%	0	114	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	114	-100.0%	0	114	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	554	771	-28.0%	554	771	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	554	771	-28.0%	554	771	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,190	1,281	-7.1%	1,190	1,281	0	0	0	0	0	0

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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 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State, May 2018 and 2017
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	18,723	19,994	-6.4%	11	248	18,712	19,746	0	0	0	0
Connecticut	7,837	6,035	30.0%	0	0	7,837	6,035	0	0	0	0
Maine	868	0	--	0	0	868	0	0	0	0	0
Massachusetts	6,647	10,814	-39.0%	5	65	6,642	10,749	0	0	0	0
New Hampshire	851	1,777	-52.0%	6	183	845	1,594	0	0	0	0
Rhode Island	2,521	1,368	84.0%	0	0	2,521	1,368	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	77,235	61,011	27.0%	6,414	5,211	69,929	55,461	0	0	892	339
New Jersey	18,314	12,450	47.0%	0	0	18,314	12,450	0	0	0	0
New York	25,942	23,403	11.0%	6,414	5,211	18,876	18,057	0	0	651	135
Pennsylvania	32,980	25,158	31.0%	0	0	32,739	24,954	0	0	241	204
East North Central	68,387	41,800	64.0%	25,000	13,799	41,651	26,573	538	369	1,197	1,059
Illinois	6,622	4,819	37.0%	1,234	15	5,384	4,802	0	0	4	2
Indiana	13,171	5,395	144.0%	6,615	5,219	6,556	176	0	0	0	0
Michigan	21,738	14,104	54.0%	5,872	2,450	14,850	10,808	538	369	477	476
Ohio	20,175	13,622	48.0%	5,255	3,220	14,451	10,052	0	0	468	350
Wisconsin	6,682	3,859	73.0%	6,024	2,894	410	734	0	0	248	230
West North Central	17,088	3,274	422.0%	14,446	2,819	2,102	16	220	113	321	325
Iowa	5,746	1,484	287.0%	5,425	1,172	0	0	0	0	320	312
Kansas	3,574	923	287.0%	3,574	923	0	0	0	0	0	0
Minnesota	2,798	75	NM	2,525	45	272	16	1	1	0	13
Missouri	4,616	452	922.0%	2,567	339	1,830	0	219	113	0	0
Nebraska	330	159	108.0%	330	159	0	0	0	0	0	0
North Dakota	25	181	-86.0%	25	181	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	200,967	182,425	10.0%	161,228	153,391	36,959	26,174	0	0	2,781	2,860
Delaware	2,813	3,708	-24.0%	0	0	2,813	3,708	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	98,943	99,123	-0.2%	94,426	97,100	4,133	1,904	0	0	384	120
Georgia	28,409	24,658	15.0%	20,538	19,253	7,131	4,545	0	0	740	860
Maryland	10,338	2,712	281.0%	2,074	0	8,059	2,529	0	0	205	183
North Carolina	22,399	19,418	15.0%	19,204	16,615	2,976	2,770	0	0	219	33
South Carolina	11,078	10,754	3.0%	9,291	8,907	1,728	1,815	0	0	58	32
Virginia	25,624	20,992	22.0%	15,486	11,317	9,348	8,726	0	0	790	949
West Virginia	1,364	1,060	29.0%	207	198	770	177	0	0	386	684
East South Central	84,154	63,719	32.0%	55,925	43,105	26,792	18,993	0	0	1,438	1,621
Alabama	36,494	26,353	38.0%	13,777	10,117	22,717	16,237	0	0	0	0
Kentucky	8,938	4,044	121.0%	8,490	3,783	448	261	0	0	0	0
Mississippi	32,842	28,766	14.0%	29,216	26,271	3,626	2,495	0	0	0	0
Tennessee	5,881	4,556	29.0%	4,443	2,934	0	0	0	0	1,438	1,621
West South Central	244,850	170,898	43.0%	69,538	41,234	124,286	88,039	0	0	51,026	41,625
Arkansas	11,542	7,834	47.0%	4,169	17	7,189	7,676	0	0	184	141
Louisiana	42,910	36,488	18.0%	21,484	17,585	4,863	2,949	0	0	16,564	15,954
Oklahoma	31,750	15,726	102.0%	18,731	9,275	12,720	6,271	0	0	299	180
Texas	158,648	110,850	43.0%	25,155	14,357	99,513	71,143	0	0	33,979	25,350
Mountain	52,902	46,493	14.0%	44,027	37,240	8,824	9,206	0	0	52	47
Arizona	19,255	18,899	1.9%	13,364	12,866	5,891	6,033	0	0	0	0
Colorado	9,740	6,562	48.0%	8,690	5,594	1,050	967	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	245	227	7.8%	245	227	0	0	0	0	0	0
Nevada	12,513	12,926	-3.2%	12,513	12,926	0	0	0	0	0	0
New Mexico	7,572	5,611	35.0%	5,690	3,541	1,882	2,069	0	0	0	0
Utah	3,463	2,226	56.0%	3,412	2,049	0	130	0	0	52	47
Wyoming	114	43	168.0%	114	36	0	6	0	0	0	0
Pacific Contiguous	28,355	36,117	-21.0%	8,549	16,831	17,465	16,428	0	0	2,341	2,858
California	25,827	34,435	-25.0%	7,553	15,495	15,933	16,082	0	0	2,341	2,858
Oregon	1,396	743	88.0%	108	397	1,288	345	0	0	0	0
Washington	1,131	939	20.0%	888	939	243	0	0	0	0	0
Pacific Noncontiguous	39	124	-69.0%	39	124	0	0	0	0	0	0
Alaska	39	124	-69.0%	39	124	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	792,700	625,854	27.0%	385,175	314,002	346,719	260,637	758	483	60,048	50,733

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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) May 2018 and 2017 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	104,916	103,616	1.3%	48	260	104,868	103,356	0	0	0	0
Connecticut	43,560	37,967	15.0%	0	0	43,560	37,967	0	0	0	0
Maine	3,314	15	NM	0	0	3,314	15	0	0	0	0
Massachusetts	44,461	51,855	-14.0%	36	72	44,426	51,784	0	0	0	0
New Hampshire	2,868	8,830	-68.0%	12	188	2,856	8,642	0	0	0	0
Rhode Island	10,713	4,949	116.0%	0	0	10,713	4,949	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	380,688	311,556	22.0%	29,061	29,599	347,241	280,524	0	0	4,387	1,432
New Jersey	90,164	57,331	57.0%	0	0	90,164	57,331	0	0	0	0
New York	114,406	117,385	-2.5%	29,061	29,599	82,244	87,327	0	0	3,102	458
Pennsylvania	176,119	136,840	29.0%	0	0	174,833	135,866	0	0	1,285	974
East North Central	329,005	223,192	47.0%	122,381	83,640	197,228	130,804	2,805	2,416	6,590	6,331
Illinois	23,280	24,315	-4.3%	1,891	85	21,375	24,207	0	0	13	23
Indiana	58,196	42,246	38.0%	30,418	34,474	27,778	7,772	0	0	0	0
Michigan	103,178	67,617	53.0%	28,600	12,887	68,812	49,581	2,805	2,416	2,961	2,732
Ohio	103,797	67,445	54.0%	24,757	19,182	76,669	45,980	0	0	2,370	2,283
Wisconsin	40,554	21,569	88.0%	36,715	17,011	2,593	3,265	0	0	1,245	1,294
West North Central	63,553	12,179	422.0%	54,860	10,444	6,057	29	918	481	1,718	1,225
Iowa	22,704	4,277	431.0%	21,001	3,108	0	0	0	0	1,703	1,169
Kansas	9,012	4,624	95.0%	9,012	4,624	0	0	0	0	0	0
Minnesota	14,872	269	NM	14,459	181	395	29	3	4	15	56
Missouri	15,933	1,795	787.0%	9,356	1,318	5,662	0	915	477	0	0
Nebraska	812	578	40.0%	812	578	0	0	0	0	0	0
North Dakota	220	635	-65.0%	220	635	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	902,696	797,415	13.0%	743,633	680,418	144,567	102,913	0	0	14,497	14,084
Delaware	13,079	11,575	13.0%	0	0	13,079	11,575	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	441,822	398,243	11.0%	425,096	392,206	15,198	5,069	0	0	1,528	969
Georgia	128,335	119,761	7.2%	97,400	92,602	27,064	23,110	0	0	3,870	4,049
Maryland	28,035	12,865	118.0%	4,720	0	22,251	11,852	0	0	1,064	1,013
North Carolina	114,494	101,368	13.0%	101,950	89,197	11,337	11,873	0	0	1,207	297
South Carolina	46,782	43,075	8.6%	39,149	36,958	7,232	5,667	0	0	401	450
Virginia	125,255	106,201	18.0%	74,335	68,848	46,880	33,338	0	0	4,040	4,015
West Virginia	4,896	4,326	13.0%	983	607	1,527	429	0	0	2,385	3,290
East South Central	379,891	289,598	31.0%	258,567	194,296	113,319	88,007	0	0	8,006	7,295
Alabama	147,528	120,902	22.0%	51,705	45,354	95,822	75,549	0	0	0	0
Kentucky	45,250	17,347	161.0%	41,830	16,207	3,419	1,140	0	0	0	0
Mississippi	148,868	117,536	27.0%	134,791	106,218	14,077	11,319	0	0	0	0
Tennessee	38,246	33,812	13.0%	30,241	26,518	0	0	0	0	8,006	7,295
West South Central	1,023,140	755,140	35.0%	253,078	155,161	516,573	381,734	0	0	253,488	218,245
Arkansas	53,844	27,519	96.0%	14,110	30	38,698	26,610	0	0	1,036	879
Louisiana	184,342	166,055	11.0%	86,943	70,040	14,374	15,231	0	0	83,025	80,784
Oklahoma	99,656	64,039	56.0%	55,508	39,343	42,720	24,089	0	0	1,428	607
Texas	685,297	497,527	38.0%	96,517	45,748	420,781	315,804	0	0	167,999	135,975
Mountain	221,847	188,142	18.0%	190,137	159,000	31,413	28,801	0	0	296	342
Arizona	69,274	55,276	25.0%	55,196	41,472	14,078	13,805	0	0	0	0
Colorado	43,737	31,570	39.0%	37,918	26,756	5,818	4,813	0	0	0	0
Idaho	356	0	--	356	0	0	0	0	0	0	0
Montana	1,096	1,165	-6.0%	1,096	1,165	0	0	0	0	0	0
Nevada	61,044	61,615	-0.9%	61,044	61,615	0	0	0	0	0	0
New Mexico	29,717	24,884	19.0%	18,471	15,229	11,246	9,655	0	0	0	0
Utah	16,194	13,410	21.0%	15,634	12,549	263	519	0	0	296	342
Wyoming	429	222	93.0%	422	214	8	8	0	0	0	0
Pacific Contiguous	215,212	199,732	7.8%	84,031	82,271	119,620	104,272	0	0	11,561	13,189
California	173,659	175,648	-1.1%	66,138	71,359	95,960	91,101	0	0	11,561	13,189
Oregon	29,636	16,027	85.0%	12,173	2,856	17,463	13,171	0	0	0	0
Washington	11,917	8,056	48.0%	5,720	8,056	6,197	0	0	0	0	0
Pacific Noncontiguous	800	650	23.0%	800	650	0	0	0	0	0	0
Alaska	800	650	23.0%	800	650	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,621,748	2,881,219	26.0%	1,736,596	1,395,738	1,580,886	1,220,442	3,723	2,897	300,543	262,142

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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, May 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017
New England	W	W	W	--	--	W	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.18	1.92	14.0%	--	--	2.18	1.92
New Jersey	W	W	W	--	--	W	W
New York	--	W	W	--	--	--	W
Pennsylvania	W	1.85	W	--	--	W	1.85
East North Central	1.96	2.06	-4.9%	2.07	2.15	1.79	1.89
Illinois	1.74	W	W	1.89	1.81	1.69	W
Indiana	W	W	W	2.08	2.27	W	W
Michigan	W	W	W	2.08	2.14	W	W
Ohio	W	1.89	W	1.78	1.70	W	1.96
Wisconsin	2.28	2.29	-0.4%	2.28	2.29	--	--
West North Central	1.72	1.79	-3.9%	1.72	1.79	--	--
Iowa	1.70	1.72	-1.2%	1.70	1.72	--	--
Kansas	1.72	1.79	-3.9%	1.72	1.79	--	--
Minnesota	2.19	2.08	5.3%	2.19	2.08	--	--
Missouri	1.78	1.87	-4.8%	1.78	1.87	--	--
Nebraska	1.24	1.39	-11.0%	1.24	1.39	--	--
North Dakota	1.56	1.69	-7.7%	1.56	1.69	--	--
South Dakota	1.91	2.32	-18.0%	1.91	2.32	--	--
South Atlantic	2.59	2.71	-4.4%	2.66	2.74	2.25	2.47
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.88	3.03	-5.0%	2.88	3.03	--	--
Georgia	2.79	2.78	0.4%	2.79	2.78	--	--
Maryland	2.45	2.56	-4.3%	--	--	2.45	2.56
North Carolina	W	W	W	3.10	2.97	W	W
South Carolina	3.28	3.23	1.5%	3.28	3.23	--	--
Virginia	W	W	W	2.64	2.95	W	W
West Virginia	W	W	W	2.10	2.20	W	W
East South Central	W	W	W	2.04	2.05	W	W
Alabama	2.31	2.11	9.5%	2.31	2.11	--	--
Kentucky	1.92	1.98	-3.0%	1.92	1.98	--	--
Mississippi	W	W	W	2.43	2.16	W	W
Tennessee	1.97	2.19	-10.0%	1.97	2.19	--	--
West South Central	1.82	2.02	-9.9%	2.03	2.11	1.60	1.96
Arkansas	W	W	W	1.86	2.17	W	W
Louisiana	W	W	W	2.60	2.40	W	W
Oklahoma	W	W	W	1.79	1.85	W	W
Texas	1.74	1.99	-13.0%	2.04	2.06	1.53	1.95
Mountain	W	W	W	2.02	1.89	W	W
Arizona	2.59	2.31	12.0%	2.59	2.31	--	--
Colorado	1.59	1.83	-13.0%	1.59	1.83	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.15	1.60	W	W
Nevada	W	W	W	--	--	W	W
New Mexico	2.34	1.91	23.0%	2.34	1.91	--	--
Utah	2.06	1.94	6.2%	2.06	1.94	--	--
Wyoming	W	W	W	1.71	1.57	W	W
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.50	3.22	W	W
Alaska	3.50	3.22	8.7%	3.50	3.22	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.04	2.12	-3.8%	2.10	2.16	1.88	1.99

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

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

Table 4.10.B. Average Cost of Coal Delivered for Electricity Generation by State, (Year-to-Date) May 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	W	W	W	3.61	4.34	W	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	3.61	4.34	-17.0%	3.61	4.34	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.38	2.02	18.0%	--	--	2.38	2.02
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	2.31	1.97	17.0%	--	--	2.31	1.97
East North Central	1.98	2.03	-2.5%	2.09	2.13	1.81	1.89
Illinois	1.76	W	W	1.85	1.85	1.73	W
Indiana	W	W	W	2.11	2.18	W	W
Michigan	W	W	W	2.14	2.19	W	W
Ohio	W	1.93	W	1.78	1.74	W	1.98
Wisconsin	2.24	2.26	-0.9%	2.24	2.26	--	--
West North Central	1.72	1.77	-2.8%	1.72	1.77	--	--
Iowa	1.72	1.70	1.2%	1.72	1.70	--	--
Kansas	1.69	1.73	-2.3%	1.69	1.73	--	--
Minnesota	2.13	2.10	1.4%	2.13	2.10	--	--
Missouri	1.84	1.87	-1.6%	1.84	1.87	--	--
Nebraska	1.26	1.38	-8.7%	1.26	1.38	--	--
North Dakota	1.51	1.64	-7.9%	1.51	1.64	--	--
South Dakota	1.91	2.29	-17.0%	1.91	2.29	--	--
South Atlantic	2.63	2.71	-3.0%	2.70	2.73	2.27	2.50
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.89	W	W	2.89	2.99	--	W
Georgia	2.80	2.75	1.8%	2.80	2.75	--	--
Maryland	2.55	2.85	-11.0%	--	--	2.55	2.85
North Carolina	W	W	W	3.07	2.97	W	W
South Carolina	3.36	3.29	2.1%	3.36	3.29	--	--
Virginia	W	W	W	2.66	2.75	W	W
West Virginia	W	W	W	2.16	2.21	W	W
East South Central	W	W	W	2.10	2.05	W	W
Alabama	2.31	2.15	7.4%	2.31	2.15	--	--
Kentucky	1.96	1.96	0.0%	1.96	1.96	--	--
Mississippi	W	W	W	2.69	2.73	W	W
Tennessee	2.13	2.24	-4.9%	2.13	2.24	--	--
West South Central	1.84	1.95	-5.6%	1.97	2.12	1.68	1.82
Arkansas	W	W	W	1.93	2.13	W	W
Louisiana	W	W	W	2.19	2.41	W	W
Oklahoma	W	W	W	1.75	1.93	W	W
Texas	1.78	1.90	-6.3%	2.02	2.12	1.61	1.80
Mountain	W	W	W	2.01	1.92	W	W
Arizona	2.45	2.25	8.9%	2.45	2.25	--	--
Colorado	1.63	1.84	-11.0%	1.63	1.84	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	1.88	1.69	W	W
Nevada	W	W	W	--	--	W	W
New Mexico	2.32	1.94	20.0%	2.32	1.94	--	--
Utah	2.05	1.96	4.6%	2.05	1.96	--	--
Wyoming	W	W	W	1.78	1.67	W	W
Pacific Contiguous	W	W	W	--	2.40	W	W
California	--	--	--	--	--	--	--
Oregon	--	2.40	--	--	2.40	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.34	3.06	W	W
Alaska	3.34	3.06	9.2%	3.34	3.06	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.05	2.09	-1.9%	2.10	2.14	1.91	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, May 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017
New England	W	12.29	W	13.16	12.92	W	11.85
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	13.16	12.92	1.9%	13.16	12.92	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	13.77	12.22	13.0%	13.74	11.48	13.82	12.43
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	13.74	11.48	W	W
Pennsylvania	W	12.42	W	--	--	W	12.42
East North Central	15.76	11.97	32.0%	16.91	11.91	15.07	12.02
Illinois	W	12.18	W	--	11.99	W	12.20
Indiana	17.08	12.11	41.0%	17.08	12.11	--	--
Michigan	16.68	11.26	48.0%	16.68	11.26	--	--
Ohio	W	12.02	W	18.03	12.39	W	11.98
Wisconsin	16.53	12.02	38.0%	16.53	12.02	--	--
West North Central	17.13	12.08	42.0%	17.13	12.08	--	--
Iowa	16.77	12.14	38.0%	16.77	12.14	--	--
Kansas	17.63	11.57	52.0%	17.63	11.57	--	--
Minnesota	17.64	12.48	41.0%	17.64	12.48	--	--
Missouri	16.69	11.75	42.0%	16.69	11.75	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	17.18	13.18	30.0%	17.18	13.18	--	--
South Dakota	17.17	--	--	17.17	--	--	--
South Atlantic	14.74	11.85	24.0%	14.82	11.88	13.85	11.53
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	17.28	11.90	45.0%	17.28	11.90	--	--
Georgia	16.52	11.29	46.0%	16.52	11.29	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	16.69	11.53	45.0%	16.69	11.53	--	--
South Carolina	17.23	12.33	40.0%	17.23	12.33	--	--
Virginia	W	W	W	7.35	12.76	W	W
West Virginia	17.92	12.80	40.0%	17.92	12.80	--	--
East South Central	17.18	W	W	17.18	11.51	--	W
Alabama	19.21	W	W	19.21	12.01	--	W
Kentucky	17.14	11.77	46.0%	17.14	11.77	--	--
Mississippi	15.97	11.15	43.0%	15.97	11.15	--	--
Tennessee	16.99	11.16	52.0%	16.99	11.16	--	--
West South Central	W	12.01	W	16.85	11.83	W	12.23
Arkansas	17.00	W	W	17.00	11.81	--	W
Louisiana	--	--	--	--	--	--	--
Oklahoma	17.81	12.78	39.0%	17.81	12.78	--	--
Texas	W	W	W	16.64	11.76	W	W
Mountain	W	W	W	19.12	12.82	W	W
Arizona	15.06	12.24	23.0%	15.06	12.24	--	--
Colorado	18.56	12.58	48.0%	18.56	12.58	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	18.70	11.66	W	W
New Mexico	--	12.71	--	--	12.71	--	--
Utah	20.52	13.82	48.0%	20.52	13.82	--	--
Wyoming	18.94	13.02	45.0%	18.94	13.02	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	13.61	11.04	W	W
Alaska	--	--	--	--	--	--	--
Hawaii	W	W	W	13.61	11.04	W	W
U.S. Total	14.29	W	W	14.30	11.38	14.24	W

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

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

Table 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) May 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	W	W	W	11.40	13.98	W	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	15.00	--	W	W
New Hampshire	W	13.98	W	11.00	13.98	W	--
Rhode Island	W	--	W	--	--	W	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	13.33	12.80	4.1%	11.79	9.21	14.21	15.76
New Jersey	W	W	W	--	--	W	W
New York	12.87	13.04	-1.3%	11.79	9.21	13.72	21.60
Pennsylvania	W	W	W	--	--	W	W
East North Central	15.79	12.34	28.0%	16.00	12.34	15.50	12.34
Illinois	W	12.61	W	15.27	12.02	W	12.63
Indiana	W	12.28	W	15.86	12.28	W	--
Michigan	15.51	11.74	32.0%	15.51	11.74	--	--
Ohio	15.56	12.54	24.0%	16.21	13.29	15.36	12.20
Wisconsin	17.44	12.10	44.0%	17.44	12.10	--	--
West North Central	15.91	12.31	29.0%	15.91	12.31	--	--
Iowa	15.96	12.69	26.0%	15.96	12.69	--	--
Kansas	16.18	12.11	34.0%	16.18	12.11	--	--
Minnesota	16.26	12.49	30.0%	16.26	12.49	--	--
Missouri	15.72	12.30	28.0%	15.72	12.30	--	--
Nebraska	15.60	--	--	15.60	--	--	--
North Dakota	15.68	12.10	30.0%	15.68	12.10	--	--
South Dakota	17.17	11.98	43.0%	17.17	11.98	--	--
South Atlantic	14.54	12.39	17.0%	14.78	12.35	13.79	12.82
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	15.96	12.36	29.0%	15.96	12.36	--	--
Georgia	W	W	W	15.35	11.68	W	W
Maryland	14.15	11.26	26.0%	--	--	14.15	11.26
North Carolina	17.10	W	W	17.10	12.17	--	W
South Carolina	16.84	12.83	31.0%	16.84	12.83	--	--
Virginia	W	W	W	10.01	12.64	W	W
West Virginia	W	12.82	W	16.60	12.82	W	--
East South Central	W	W	W	15.63	12.04	W	W
Alabama	W	W	W	15.77	12.71	W	W
Kentucky	15.69	12.01	31.0%	15.69	12.01	--	--
Mississippi	15.06	11.87	27.0%	15.06	11.87	--	--
Tennessee	15.54	11.88	31.0%	15.54	11.88	--	--
West South Central	15.84	12.43	27.0%	15.81	12.09	15.93	12.66
Arkansas	W	W	W	15.97	11.92	W	W
Louisiana	13.95	--	--	13.95	--	--	--
Oklahoma	15.89	12.91	23.0%	15.89	12.91	--	--
Texas	W	W	W	15.92	12.08	W	W
Mountain	17.50	13.40	31.0%	17.55	13.41	16.97	13.38
Arizona	15.79	13.23	19.0%	15.79	13.23	--	--
Colorado	17.17	12.52	37.0%	17.17	12.52	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	18.70	11.66	W	W
New Mexico	17.70	12.65	40.0%	17.70	12.65	--	--
Utah	W	W	W	19.07	13.87	W	W
Wyoming	18.04	13.72	31.0%	18.04	13.72	--	--
Pacific Contiguous	W	W	W	--	13.51	W	W
California	--	--	--	--	--	--	--
Oregon	--	13.51	--	--	13.51	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	12.82	10.84	W	W
Alaska	--	16.28	--	--	16.28	--	--
Hawaii	W	W	W	12.82	10.84	W	W
U.S. Total	13.56	11.65	16.0%	13.52	11.41	13.64	12.54

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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, May 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.50	1.49	0.7%	1.50	1.49	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.47	1.47	0.0%	1.47	1.47	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.75	1.81	-3.3%	1.75	1.81	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	--	2.27	--	--	2.27	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	--	2.27	--	--	2.27	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.50	--	--	1.50	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.50	--	--	1.50	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.70	2.21	22.0%	2.70	2.21	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.70	2.21	22.0%	2.70	2.21	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.41	2.05	18.0%	2.41	2.05	--	--

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

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

Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) May 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.56	1.49	4.7%	1.56	1.49	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.54	1.48	4.1%	1.54	1.48	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.77	1.79	-1.1%	1.77	1.79	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.92	2.61	12.0%	2.92	2.61	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.92	2.61	12.0%	2.92	2.61	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.50	--	--	1.50	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.50	--	--	1.50	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	2.58	2.12	22.0%	2.58	2.12	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	2.58	2.12	22.0%	2.58	2.12	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.47	2.05	20.0%	2.47	2.05	--	--

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

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

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

Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State, May 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2018	May 2017	Percentage Change	May 2018	May 2017	May 2018	May 2017
New England	W	W	W	3.64	3.68	W	W
Connecticut	2.67	W	W	--	--	2.67	W
Maine	W	--	W	--	--	W	--
Massachusetts	2.40	3.26	-26.0%	2.63	3.71	2.40	3.26
New Hampshire	W	W	W	4.44	3.66	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.51	3.06	-18.0%	2.84	3.23	2.47	3.04
New Jersey	2.45	3.14	-22.0%	--	--	2.45	3.14
New York	2.74	3.19	-14.0%	2.84	3.23	2.70	3.18
Pennsylvania	2.36	2.91	-19.0%	--	--	2.36	2.91
East North Central	2.82	3.20	-12.0%	2.89	3.23	2.77	3.18
Illinois	3.13	W	W	3.08	3.89	3.14	W
Indiana	2.86	W	W	2.97	3.06	2.75	W
Michigan	2.86	3.33	-14.0%	3.11	3.56	2.77	3.28
Ohio	2.61	3.04	-14.0%	2.53	3.05	2.65	3.04
Wisconsin	2.90	W	W	2.90	3.49	--	W
West North Central	W	W	W	2.59	3.35	W	W
Iowa	2.43	2.67	-9.0%	2.43	2.67	--	--
Kansas	2.57	3.97	-35.0%	2.57	3.97	--	--
Minnesota	W	W	W	2.96	3.52	W	W
Missouri	W	3.34	W	2.57	3.34	W	--
Nebraska	2.88	3.79	-24.0%	2.88	3.79	--	--
North Dakota	2.30	4.37	-47.0%	2.30	4.37	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	3.85	3.95	-2.5%	3.97	4.02	3.18	3.34
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	4.12	4.15	W	W
Georgia	W	W	W	3.37	3.89	W	W
Maryland	3.43	3.20	7.2%	3.16	--	3.50	3.20
North Carolina	W	W	W	4.83	4.00	W	W
South Carolina	W	W	W	3.50	3.54	W	W
Virginia	3.09	3.43	-9.9%	3.18	3.55	2.86	3.12
West Virginia	W	W	W	2.77	3.17	W	W
East South Central	2.94	3.31	-11.0%	2.91	3.26	3.01	3.42
Alabama	W	W	W	3.06	3.43	W	W
Kentucky	W	W	W	3.01	3.70	W	W
Mississippi	W	W	W	2.86	3.17	W	W
Tennessee	2.61	2.93	-11.0%	2.61	2.93	--	--
West South Central	2.77	3.25	-15.0%	2.70	3.37	2.83	3.18
Arkansas	W	W	W	3.00	3.26	W	W
Louisiana	2.95	W	W	2.96	3.40	2.86	W
Oklahoma	W	W	W	2.39	3.38	W	W
Texas	2.80	3.19	-12.0%	2.65	3.34	2.85	3.16
Mountain	2.48	3.50	-29.0%	2.45	3.50	3.87	3.58
Arizona	W	W	W	2.53	3.69	W	W
Colorado	W	W	W	2.80	3.41	W	W
Idaho	--	--	--	--	--	--	--
Montana	1.08	2.40	-55.0%	1.08	2.40	--	--
Nevada	2.30	3.37	-32.0%	2.30	3.37	--	--
New Mexico	2.10	3.52	-40.0%	2.10	3.52	--	--
Utah	2.40	W	W	2.40	3.51	--	W
Wyoming	W	W	W	2.40	4.60	W	W
Pacific Contiguous	2.74	3.55	-23.0%	3.00	3.85	2.55	3.15
California	2.80	W	W	3.04	3.92	2.63	W
Oregon	W	W	W	5.43	2.57	W	W
Washington	W	3.54	W	2.41	3.54	W	--
Pacific Noncontiguous	7.76	8.09	-4.1%	7.76	8.09	--	--
Alaska	7.76	8.09	-4.1%	7.76	8.09	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.05	3.50	-13.0%	3.25	3.71	2.77	3.19

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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.

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

Table 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) May 2018 and 2017
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	May 2018 YTD	May 2017 YTD	Percentage Change	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	6.07	4.42	37.0%	4.34	3.81	6.07	4.42
Connecticut	5.77	W	W	--	--	5.77	W
Maine	W	W	W	--	--	W	W
Massachusetts	6.63	3.94	68.0%	3.20	3.79	6.64	3.94
New Hampshire	W	W	W	7.65	3.81	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.72	3.56	4.5%	5.12	4.29	3.59	3.46
New Jersey	3.56	3.39	5.0%	--	--	3.56	3.39
New York	4.46	4.08	9.3%	5.12	4.29	4.19	4.00
Pennsylvania	3.33	3.17	5.0%	--	--	3.33	3.17
East North Central	3.05	3.20	-4.7%	3.23	3.22	2.93	3.18
Illinois	3.33	3.11	7.1%	3.60	4.35	3.30	3.11
Indiana	3.16	W	W	3.39	3.08	2.91	W
Michigan	3.05	3.26	-6.4%	3.32	3.41	2.94	3.22
Ohio	2.85	3.12	-8.7%	2.88	3.05	2.84	3.15
Wisconsin	3.24	W	W	3.24	3.56	--	W
West North Central	W	W	W	2.99	3.61	W	W
Iowa	2.71	2.85	-4.9%	2.71	2.85	--	--
Kansas	2.98	3.99	-25.0%	2.98	3.99	--	--
Minnesota	W	W	W	3.43	3.47	W	W
Missouri	W	3.07	W	2.76	3.07	W	--
Nebraska	3.92	4.65	-16.0%	3.92	4.65	--	--
North Dakota	6.02	4.88	23.0%	6.02	4.88	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	4.56	3.98	15.0%	4.64	4.03	3.98	3.42
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	4.46	4.11	W	W
Georgia	W	W	W	3.77	3.77	W	W
Maryland	4.44	W	W	3.21	--	4.70	W
North Carolina	W	W	W	5.40	4.15	W	W
South Carolina	W	W	W	4.07	3.55	W	W
Virginia	5.26	3.84	37.0%	6.19	4.04	3.06	2.98
West Virginia	W	3.26	W	3.28	3.12	W	3.47
East South Central	3.20	3.37	-5.0%	3.21	3.37	3.18	3.36
Alabama	W	W	W	3.20	3.52	W	W
Kentucky	W	W	W	3.58	3.94	W	W
Mississippi	W	W	W	3.14	3.28	W	W
Tennessee	3.04	3.15	-3.5%	3.04	3.15	--	--
West South Central	3.02	3.19	-5.3%	3.03	3.36	3.01	3.11
Arkansas	W	W	W	3.25	3.30	W	W
Louisiana	W	W	W	3.23	3.36	W	W
Oklahoma	W	W	W	2.66	3.43	W	W
Texas	3.03	3.14	-3.5%	3.03	3.31	3.03	3.11
Mountain	3.08	W	W	3.05	3.74	3.79	W
Arizona	W	W	W	2.92	4.02	W	W
Colorado	W	W	W	3.91	3.64	W	W
Idaho	3.32	--	--	3.32	--	--	--
Montana	1.52	2.21	-31.0%	1.52	2.21	--	--
Nevada	2.85	3.68	-23.0%	2.85	3.68	--	--
New Mexico	2.54	3.53	-28.0%	2.54	3.53	--	--
Utah	W	W	W	2.80	3.70	W	W
Wyoming	W	W	W	3.14	4.53	W	W
Pacific Contiguous	W	W	W	3.45	4.09	W	W
California	3.28	W	W	3.72	4.12	2.84	W
Oregon	W	W	W	2.23	3.28	W	W
Washington	W	4.13	W	3.38	4.13	W	--
Pacific Noncontiguous	8.08	8.09	-0.1%	8.08	8.09	--	--
Alaska	8.08	8.09	-0.1%	8.08	8.09	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.65	3.62	0.8%	3.82	3.79	3.43	3.38

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

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

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

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, May 2018

	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	4	0.73	7.4	67	0.09	2.0	0	--	--
Connecticut	0	--	--	67	0.09	2.0	0	--	--
Maine	4	0.73	7.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,331	2.88	8.9	0	--	--	0	--	--
New Jersey	38	1.63	8.6	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	1,293	2.92	8.9	0	--	--	0	--	--
East North Central	5,176	3.15	10.3	5,949	0.23	4.6	0	--	--
Illinois	763	3.63	20.4	2,482	0.21	4.6	0	--	--
Indiana	2,174	2.88	8.9	248	0.19	4.4	0	--	--
Michigan	176	2.31	7.6	1,940	0.26	4.5	0	--	--
Ohio	1,988	3.38	9.1	0	--	--	0	--	--
Wisconsin	75	2.65	8.2	1,279	0.24	4.9	0	--	--
West North Central	88	3.23	9.4	6,999	0.26	5.0	1,571	0.75	10.3
Iowa	39	3.55	8.0	1,166	0.24	4.7	0	--	--
Kansas	17	3.35	13.5	892	0.28	4.9	0	--	--
Minnesota	0	--	--	1,031	0.34	6.3	0	--	--
Missouri	32	2.79	8.9	2,808	0.22	4.5	0	--	--
Nebraska	0	--	--	947	0.31	5.3	0	--	--
North Dakota	0	--	--	0	--	--	1,571	0.75	10.3
South Dakota	0	--	--	155	0.40	5.4	0	--	--
South Atlantic	6,064	2.34	10.1	523	0.33	4.6	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,121	2.45	8.2	0	--	--	0	--	--
Georgia	409	2.47	8.4	523	0.33	4.6	0	--	--
Maryland	338	2.30	10.7	0	--	--	0	--	--
North Carolina	893	1.84	9.4	0	--	--	0	--	--
South Carolina	462	1.72	9.5	0	--	--	0	--	--
Virginia	493	1.02	18.1	0	--	--	0	--	--
West Virginia	2,348	2.82	10.2	0	--	--	0	--	--
East South Central	3,171	2.75	9.2	1,535	0.24	5.1	302	0.47	12.9
Alabama	527	1.91	10.8	820	0.26	5.2	0	--	--
Kentucky	2,234	3.03	9.0	605	0.22	5.0	0	--	--
Mississippi	46	2.98	8.6	96	0.22	4.8	302	0.47	12.9
Tennessee	365	2.09	8.2	15	0.19	5.0	0	--	--
West South Central	122	2.63	15.9	5,544	0.28	5.0	2,054	1.06	15.8
Arkansas	7	0.39	10.1	1,142	0.24	4.9	0	--	--
Louisiana	67	2.97	9.2	380	0.30	5.2	67	0.63	16.1
Oklahoma	48	2.49	26.7	338	0.21	4.6	0	--	--
Texas	0	--	--	3,683	0.29	5.1	1,987	1.08	15.8
Mountain	1,646	0.52	12.6	3,751	0.45	8.5	6	0.56	10.7
Arizona	518	0.48	10.5	498	0.34	9.2	0	--	--
Colorado	81	0.48	10.9	979	0.32	6.1	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	374	0.72	10.5	6	0.56	10.7
Nevada	0	--	--	30	0.19	4.3	0	--	--
New Mexico	243	0.70	20.1	339	0.78	20.6	0	--	--
Utah	804	0.49	12.0	60	0.93	9.8	0	--	--
Wyoming	0	--	--	1,472	0.43	6.5	0	--	--
Pacific Contiguous	44	0.39	9.5	118	0.37	9.0	0	--	--
California	44	0.39	9.5	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	118	0.37	9.0	0	--	--
Pacific Noncontiguous	0	--	--	60	0.15	4.7	12	0.15	9.1
Alaska	0	--	--	0	--	--	12	0.15	9.1
Hawaii	0	--	--	60	0.15	4.7	0	--	--
U.S. Total	17,647	2.53	10.1	24,548	0.29	5.5	3,945	0.90	13.4

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 2017 and 2018 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, May 2018

	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	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	2,782	2.89	8.7	4,062	0.24	4.6	0	--	--
Illinois	156	3.23	10.3	595	0.20	4.5	0	--	--
Indiana	1,999	2.82	8.7	248	0.19	4.4	0	--	--
Michigan	141	2.47	7.8	1,940	0.26	4.5	0	--	--
Ohio	426	3.20	8.6	0	--	--	0	--	--
Wisconsin	61	3.04	7.8	1,279	0.24	4.9	0	--	--
West North Central	50	2.98	10.5	6,727	0.26	5.0	1,571	0.75	10.3
Iowa	0	--	--	1,015	0.25	4.8	0	--	--
Kansas	17	3.35	13.5	892	0.28	4.9	0	--	--
Minnesota	0	--	--	972	0.35	6.3	0	--	--
Missouri	32	2.79	8.9	2,808	0.22	4.5	0	--	--
Nebraska	0	--	--	884	0.31	5.4	0	--	--
North Dakota	0	--	--	0	--	--	1,571	0.75	10.3
South Dakota	0	--	--	155	0.40	5.4	0	--	--
South Atlantic	5,050	2.26	10.2	523	0.33	4.6	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,111	2.47	8.2	0	--	--	0	--	--
Georgia	392	2.53	8.3	523	0.33	4.6	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	856	1.88	9.6	0	--	--	0	--	--
South Carolina	462	1.72	9.5	0	--	--	0	--	--
Virginia	429	1.06	19.9	0	--	--	0	--	--
West Virginia	1,799	2.65	10.4	0	--	--	0	--	--
East South Central	3,095	2.79	9.2	1,535	0.24	5.1	0	--	--
Alabama	527	1.91	10.8	820	0.26	5.2	0	--	--
Kentucky	2,234	3.03	9.0	605	0.22	5.0	0	--	--
Mississippi	46	2.98	8.6	96	0.22	4.8	0	--	--
Tennessee	289	2.42	8.1	15	0.19	5.0	0	--	--
West South Central	67	2.97	9.2	3,121	0.27	5.0	675	1.51	18.7
Arkansas	0	--	--	911	0.23	4.7	0	--	--
Louisiana	67	2.97	9.2	232	0.28	5.2	67	0.63	16.1
Oklahoma	0	--	--	295	0.21	4.7	0	--	--
Texas	0	--	--	1,683	0.29	5.1	608	1.62	19.0
Mountain	1,646	0.52	12.6	3,301	0.43	8.4	6	0.56	10.7
Arizona	518	0.48	10.5	498	0.34	9.2	0	--	--
Colorado	81	0.48	10.9	979	0.32	6.1	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	6	0.56	10.7
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	243	0.70	20.1	339	0.78	20.6	0	--	--
Utah	804	0.49	12.0	60	0.93	9.8	0	--	--
Wyoming	0	--	--	1,425	0.43	6.5	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	12	0.15	9.1
Alaska	0	--	--	0	--	--	12	0.15	9.1
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	12,691	2.33	9.9	19,270	0.29	5.5	2,263	0.96	12.7

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, May 2018

	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	4	0.73	7.4	67	0.09	2.0	0	--	--
Connecticut	0	--	--	67	0.09	2.0	0	--	--
Maine	4	0.73	7.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,320	2.88	8.9	0	--	--	0	--	--
New Jersey	38	1.63	8.6	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	1,282	2.92	8.9	0	--	--	0	--	--
East North Central	2,297	3.46	12.3	1,839	0.20	4.5	0	--	--
Illinois	525	3.76	26.6	1,839	0.20	4.5	0	--	--
Indiana	175	3.55	10.9	0	--	--	0	--	--
Michigan	35	1.61	6.7	0	--	--	0	--	--
Ohio	1,563	3.43	9.2	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	940	2.84	9.6	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	321	2.32	10.2	0	--	--	0	--	--
North Carolina	15	0.83	5.9	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	55	0.81	8.2	0	--	--	0	--	--
West Virginia	549	3.40	9.5	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	302	0.47	12.9
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	302	0.47	12.9
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	48	2.49	26.7	2,407	0.29	5.1	1,379	0.86	14.5
Arkansas	0	--	--	232	0.25	5.7	0	--	--
Louisiana	0	--	--	148	0.33	5.0	0	--	--
Oklahoma	48	2.49	26.7	28	0.22	4.5	0	--	--
Texas	0	--	--	2,000	0.30	5.1	1,379	0.86	14.5
Mountain	0	--	--	450	0.66	9.6	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	374	0.72	10.5	0	--	--
Nevada	0	--	--	30	0.19	4.3	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	47	0.46	5.8	0	--	--
Pacific Contiguous	0	--	--	118	0.37	9.0	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	118	0.37	9.0	0	--	--
Pacific Noncontiguous	0	--	--	60	0.15	4.7	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	60	0.15	4.7	0	--	--
U.S. Total	4,609	3.14	10.8	4,942	0.29	5.3	1,682	0.80	14.2

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, May 2018

	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	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	0	--	--	0	--	--	0	--	--
Illinois	0	--	--	0	--	--	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	0	--	--	0	--	--	0	--	--

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, May 2018

	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	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	11	2.58	7.5	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	11	2.58	7.5	0	--	--	0	--	--
East North Central	97	3.22	8.6	48	0.80	6.5	0	--	--
Illinois	83	3.68	8.3	48	0.80	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	1	0.82	6.5	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	13	0.50	10.3	0	--	--	0	--	--
West North Central	39	3.55	8.0	272	0.22	4.7	0	--	--
Iowa	39	3.55	8.0	150	0.21	4.5	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	59	0.26	5.4	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	63	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	74	1.11	10.6	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	10	0.77	8.3	0	--	--	0	--	--
Georgia	17	1.17	10.2	0	--	--	0	--	--
Maryland	17	1.96	20.9	0	--	--	0	--	--
North Carolina	22	0.83	6.9	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	8	0.75	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	76	0.93	8.4	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	76	0.93	8.4	0	--	--	0	--	--
West South Central	7	0.39	10.1	15	0.19	4.7	0	--	--
Arkansas	7	0.39	10.1	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	15	0.19	4.7	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	44	0.39	9.5	0	--	--	0	--	--
California	44	0.39	9.5	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	348	1.81	9.0	336	0.30	4.9	0	--	--

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2017 and 2018 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, 2008 - May 2018 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	1,411,058	1,367,191	976,715	7,497	3,762,462
2017	1,378,819	1,349,208	946,443	7,524	3,681,995
Year 2016					
January	130,972	110,410	78,848	660	320,890
February	115,959	103,452	76,748	646	296,806
March	100,227	105,739	79,237	609	285,812
April	88,244	102,045	78,647	595	269,531
May	94,198	108,437	81,491	581	284,708
June	125,211	120,363	83,672	631	329,878
July	154,409	130,038	87,076	648	372,172
August	156,442	135,019	89,101	631	381,192
Sept	129,363	123,493	83,259	637	336,752
October	101,508	112,963	81,597	613	296,681
November	93,244	105,060	78,421	592	277,317
December	121,281	110,172	78,616	653	310,722
Year 2017					
January	129,253	109,414	75,814	666	315,148
February	101,349	99,607	71,958	636	273,550
March	103,434	107,171	77,587	644	288,836
April	90,966	101,796	75,917	590	269,269
May	98,977	109,912	80,147	583	289,619
June	122,034	119,289	82,224	629	324,176
July	149,075	128,324	84,240	630	362,268
August	142,026	128,144	85,905	641	356,716
Sept	119,077	118,836	80,260	619	318,793
October	102,983	113,036	79,471	626	296,116
November	97,870	104,959	76,195	598	279,622
December	121,775	108,720	76,724	663	307,882
Year 2018					
January	148,985	114,531	75,948	748	340,212
February	113,334	101,791	71,996	638	287,759
March	106,061	106,965	76,785	625	290,435
April	95,132	102,941	75,342	608	274,023
May	103,356	111,951	81,402	591	297,299
Year to Date					
2016	529,600	530,083	394,972	3,092	1,457,747
2017	523,979	527,900	381,423	3,119	1,436,422
2018	566,868	538,179	381,472	3,210	1,489,729
Rolling 12 Months Ending in May					
2017	1,405,437	1,365,008	963,167	7,524	3,741,136
2018	1,421,707	1,359,488	946,492	7,615	3,735,302

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 2016 and prior years are final. Values for 2018 and 2017 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, 2008 - May 2018 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	177,077	142,643	66,068	722	386,509
2017	177,860	144,108	65,394	727	388,089
Year 2016					
January	15,704	11,133	5,080	63	31,980
February	14,076	10,605	4,927	62	29,670
March	12,593	10,815	5,122	58	28,587
April	10,967	10,398	5,065	57	26,486
May	12,048	11,184	5,357	54	28,643
June	15,942	12,828	5,879	62	34,710
July	19,575	13,891	6,294	64	39,823
August	20,157	14,530	6,440	63	41,191
Sept	16,652	13,298	5,947	64	35,961
October	12,648	11,914	5,491	59	30,111
November	11,886	10,840	5,225	55	28,007
December	14,830	11,206	5,242	62	31,339
Year 2017					
January	15,783	11,190	4,988	62	32,023
February	12,952	10,439	4,763	60	28,215
March	13,332	11,224	5,224	61	29,841
April	11,542	10,584	5,021	56	27,203
May	12,879	11,633	5,459	56	30,027
June	16,123	13,120	5,937	64	35,243
July	19,547	14,108	6,194	64	39,912
August	18,727	14,153	6,231	64	39,175
Sept	15,838	13,150	5,795	62	34,844
October	13,220	12,231	5,525	60	31,036
November	12,691	11,054	5,171	57	28,974
December	15,226	11,222	5,084	62	31,594
Year 2018					
January	18,217	11,995	5,290	71	35,573
February	14,303	10,793	4,863	62	30,021
March	13,780	11,194	5,097	58	30,129
April	12,263	10,745	4,955	58	28,021
May	13,595	11,769	5,549	56	30,969
Year to Date					
2016	65,388	54,135	25,550	294	145,367
2017	66,488	55,071	25,456	295	147,310
2018	72,158	56,496	25,754	305	154,712
Rolling 12 Months Ending in May					
2017	178,177	143,578	65,974	723	388,452
2018	183,530	145,533	65,692	737	395,492

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 2016 and prior years are final. Values for 2018 and 2017 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, 2008 - May 2018 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	10.43	6.76	9.63	10.27
2017	12.90	10.68	6.91	9.67	10.54
Year 2016					
January	11.99	10.08	6.44	9.52	9.97
February	12.14	10.25	6.42	9.61	10.00
March	12.56	10.23	6.46	9.56	10.00
April	12.43	10.19	6.44	9.53	9.83
May	12.79	10.31	6.57	9.28	10.06
June	12.73	10.66	7.03	9.75	10.52
July	12.68	10.68	7.23	9.84	10.70
August	12.88	10.76	7.23	10.04	10.81
Sept	12.87	10.77	7.14	10.00	10.68
October	12.46	10.55	6.73	9.62	10.15
November	12.75	10.32	6.66	9.22	10.10
December	12.23	10.17	6.67	9.49	10.09
Year 2017					
January	12.21	10.23	6.58	9.38	10.16
February	12.78	10.48	6.62	9.47	10.31
March	12.89	10.47	6.73	9.47	10.33
April	12.69	10.40	6.61	9.44	10.10
May	13.01	10.58	6.81	9.58	10.37
June	13.21	11.00	7.22	10.14	10.87
July	13.11	10.99	7.35	10.11	11.02
August	13.19	11.04	7.25	10.05	10.98
Sept	13.30	11.07	7.22	9.99	10.93
October	12.84	10.82	6.95	9.55	10.48
November	12.97	10.53	6.79	9.49	10.36
December	12.50	10.32	6.63	9.32	10.26
Year 2018					
January	12.23	10.47	6.97	9.46	10.46
February	12.62	10.60	6.75	9.74	10.43
March	12.99	10.47	6.64	9.33	10.37
April	12.89	10.44	6.58	9.53	10.23
May	13.15	10.51	6.82	9.46	10.42
Year to Date					
2016	12.35	10.21	6.47	9.50	9.97
2017	12.69	10.43	6.67	9.47	10.26
2018	12.73	10.50	6.75	9.50	10.39
Rolling 12 Months Ending in May					
2017	12.68	10.52	6.85	9.61	10.38
2018	12.91	10.70	6.94	9.68	10.59

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 2016 and prior years are final. Values for 2018 and 2017 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, May 2018 and 2017 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	3,156	3,331	4,075	4,388	1,383	1,385	45	42	8,658	9,146
Connecticut	836	801	1,007	935	319	247	15	13	2,177	1,996
Maine	330	341	303	311	229	220	0	0	861	872
Massachusetts	1,333	1,536	1,973	2,372	499	592	27	27	3,831	4,527
New Hampshire	303	300	351	328	164	154	0	0	818	781
Rhode Island	211	211	283	283	60	56	2	2	557	553
Vermont	144	142	158	158	112	117	0	0	414	417
Middle Atlantic	9,084	8,523	12,251	11,887	6,023	5,833	296	289	27,654	26,533
New Jersey	1,988	1,881	3,122	2,999	603	592	23	23	5,737	5,495
New York	3,465	3,306	5,764	5,568	1,362	1,393	217	207	10,808	10,475
Pennsylvania	3,632	3,336	3,365	3,320	4,058	3,847	56	59	11,110	10,563
East North Central	13,823	12,244	15,546	14,685	16,172	15,459	47	45	45,587	42,432
Illinois	3,469	2,911	4,227	3,990	3,618	3,344	42	40	11,356	10,286
Indiana	2,398	2,137	2,044	1,947	3,636	3,488	2	1	8,080	7,573
Michigan	2,528	2,340	3,256	3,087	2,704	2,557	1	1	8,490	7,985
Ohio	3,776	3,350	4,056	3,815	4,165	4,096	3	3	11,999	11,263
Wisconsin	1,651	1,507	1,963	1,846	2,048	1,973	0	0	5,662	5,326
West North Central	7,702	7,099	8,611	8,042	7,514	7,366	4	4	23,830	22,510
Iowa	961	892	968	926	1,966	1,925	0	0	3,895	3,742
Kansas	1,160	898	1,310	1,246	953	918	0	0	3,423	3,063
Minnesota	1,612	1,506	1,927	1,839	1,755	1,739	2	2	5,296	5,086
Missouri	2,630	2,574	2,693	2,418	997	1,062	2	2	6,322	6,056
Nebraska	694	635	805	758	902	853	0	0	2,401	2,246
North Dakota	315	288	512	481	716	642	0	0	1,543	1,410
South Dakota	329	305	395	375	225	227	0	0	950	907
South Atlantic	26,502	26,489	26,668	26,019	12,301	12,120	105	106	65,576	64,735
Delaware	336	292	350	330	199	180	0	0	885	802
District of Columbia	167	154	673	655	15	15	27	27	882	850
Florida	9,340	10,463	7,903	8,453	1,418	1,436	7	8	18,668	20,360
Georgia	4,265	4,101	4,029	3,909	2,758	2,639	14	14	11,066	10,663
Maryland	1,864	1,699	2,430	2,305	340	315	42	44	4,676	4,363
North Carolina	4,344	4,027	4,167	3,801	2,437	2,621	1	0	10,949	10,450
South Carolina	2,287	2,204	1,895	1,855	2,391	2,296	0	0	6,573	6,356
Virginia	3,130	2,890	4,559	4,087	1,526	1,468	14	13	9,229	8,458
West Virginia	768	659	663	623	1,217	1,151	0	0	2,648	2,433
East South Central	8,512	8,030	7,685	7,274	8,155	8,524	0	0	24,352	23,829
Alabama	2,414	2,262	1,960	1,885	2,876	2,826	0	0	7,250	6,974
Kentucky	2,013	1,807	1,667	1,552	2,304	2,379	0	0	5,984	5,739
Mississippi	1,263	1,239	1,113	1,120	1,429	1,433	0	0	3,805	3,792
Tennessee	2,822	2,722	2,945	2,716	1,545	1,886	0	0	7,313	7,324
West South Central	16,326	15,323	15,944	15,978	15,283	15,285	15	16	47,569	46,602
Arkansas	1,206	1,104	984	939	1,482	1,397	0	0	3,672	3,440
Louisiana	2,220	2,145	2,012	1,982	2,886	2,910	1	1	7,120	7,037
Oklahoma	1,881	1,514	1,980	1,675	1,567	1,448	0	0	5,427	4,637
Texas	11,020	10,560	10,968	11,383	9,348	9,530	14	14	31,350	31,488
Mountain	7,546	7,263	8,187	7,912	7,011	6,936	13	12	22,758	22,122
Arizona	2,885	2,739	2,546	2,517	1,169	1,154	1	1	6,601	6,411
Colorado	1,420	1,369	1,674	1,641	1,326	1,291	7	6	4,428	4,307
Idaho	543	560	510	502	853	797	0	0	1,906	1,859
Montana	351	348	398	382	338	339	0	0	1,087	1,068
Nevada	1,045	972	1,034	913	997	1,087	1	1	3,076	2,973
New Mexico	505	459	798	736	673	624	0	0	1,976	1,820
Utah	617	622	935	925	788	800	4	5	2,344	2,352
Wyoming	181	194	292	296	866	842	0	0	1,339	1,332
Pacific Contiguous	10,345	10,313	12,519	13,252	7,159	6,821	67	69	30,089	30,455
California	6,621	6,369	8,926	9,551	4,053	3,854	64	67	19,663	19,840
Oregon	1,316	1,380	1,257	1,308	995	1,022	2	2	3,571	3,712
Washington	2,408	2,565	2,336	2,393	2,111	1,945	1	0	6,855	6,903
Pacific Noncontiguous	359	361	464	475	402	418	0	0	1,226	1,254
Alaska	149	145	213	214	111	113	0	0	473	472
Hawaii	210	216	251	261	292	305	0	0	752	782
U.S. Total	103,356	98,977	111,951	109,912	81,402	80,147	591	583	297,299	289,619

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.

Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through May 2018 and 2017 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	19,248	19,767	20,735	22,801	6,454	6,814	236	233	46,674	49,614
Connecticut	5,156	5,041	4,876	4,872	1,273	1,223	74	70	11,380	11,206
Maine	2,015	2,021	1,609	1,629	1,097	1,058	0	0	4,720	4,708
Massachusetts	8,122	8,820	10,222	12,313	2,437	2,891	151	151	20,931	24,174
New Hampshire	1,888	1,861	1,755	1,769	779	773	0	0	4,422	4,402
Rhode Island	1,169	1,166	1,463	1,418	305	297	12	12	2,949	2,893
Vermont	898	858	811	800	563	572	0	0	2,272	2,230
Middle Atlantic	54,063	50,418	62,994	61,653	29,528	28,982	1,694	1,619	148,279	142,672
New Jersey	10,513	9,950	15,319	14,961	2,836	2,895	134	127	28,802	27,934
New York	19,902	18,996	30,082	29,458	6,891	6,734	1,259	1,156	58,134	56,344
Pennsylvania	23,649	21,471	17,593	17,233	19,801	19,353	301	336	61,344	58,393
East North Central	76,662	69,464	74,285	72,214	75,776	74,645	258	234	226,981	216,558
Illinois	18,084	16,145	20,427	19,713	17,138	16,738	228	205	55,878	52,801
Indiana	13,804	12,093	9,650	9,337	16,917	16,592	9	8	40,379	38,030
Michigan	13,691	12,971	15,555	15,364	12,336	12,008	3	2	41,584	40,345
Ohio	21,961	19,576	18,922	18,331	19,636	19,659	18	19	60,538	57,585
Wisconsin	9,122	8,679	9,731	9,470	9,750	9,648	0	0	28,603	27,797
West North Central	44,558	40,448	41,909	40,171	35,436	34,834	22	20	121,926	115,474
Iowa	6,081	5,616	5,043	4,846	9,346	9,032	0	0	20,470	19,493
Kansas	5,278	4,573	6,162	5,914	4,419	4,355	0	0	15,859	14,842
Minnesota	9,368	9,013	9,433	9,224	8,468	8,395	12	10	27,280	26,643
Missouri	14,831	12,984	12,495	11,795	4,608	4,762	11	10	31,945	29,551
Nebraska	4,389	4,002	3,898	3,767	4,093	4,046	0	0	12,380	11,816
North Dakota	2,391	2,208	2,815	2,653	3,400	3,148	0	0	8,605	8,009
South Dakota	2,221	2,052	2,064	1,972	1,101	1,096	0	0	5,386	5,120
South Atlantic	143,963	129,938	122,890	120,572	56,311	55,965	520	529	323,684	307,003
Delaware	2,106	1,842	1,721	1,629	843	821	0	0	4,670	4,292
District of Columbia	1,006	907	3,268	3,143	71	69	129	130	4,474	4,248
Florida	45,012	43,412	36,516	36,909	6,586	6,717	32	38	88,145	87,076
Georgia	22,455	20,040	18,427	18,022	12,865	12,723	71	70	53,818	50,854
Maryland	11,692	10,293	11,770	11,304	1,489	1,505	213	219	25,163	23,321
North Carolina	24,381	20,996	19,045	18,377	10,743	10,956	2	1	54,171	50,331
South Carolina	12,248	10,663	8,435	8,294	11,003	10,943	0	0	31,687	29,900
Virginia	19,825	17,298	20,524	19,853	6,873	6,810	73	71	47,294	44,032
West Virginia	5,237	4,486	3,185	3,042	5,840	5,421	0	0	14,262	12,949
East South Central	49,325	42,939	36,170	34,304	39,375	40,620	0	0	124,869	117,863
Alabama	12,638	11,191	8,875	8,688	13,835	13,550	0	0	35,348	33,429
Kentucky	11,446	9,851	7,727	7,381	11,284	11,314	0	0	30,456	28,545
Mississippi	7,329	6,424	5,282	5,230	6,854	6,766	0	0	19,465	18,420
Tennessee	17,912	15,474	14,286	13,005	7,402	8,990	0	0	39,600	37,469
West South Central	84,110	73,615	75,314	72,337	71,669	72,915	77	76	231,171	218,943
Arkansas	7,498	6,453	4,604	4,492	7,028	6,668	0	0	19,130	17,612
Louisiana	11,780	10,479	9,528	9,366	13,993	13,977	5	5	35,305	33,828
Oklahoma	9,214	7,841	8,145	7,612	7,289	6,995	0	0	24,648	22,448
Texas	55,619	48,843	53,038	50,866	43,359	45,275	72	71	152,088	145,055
Mountain	35,636	35,588	38,150	37,375	32,248	32,213	65	59	106,100	105,234
Arizona	11,192	11,143	11,189	11,113	5,485	5,571	3	3	27,869	27,830
Colorado	7,287	7,204	8,123	8,049	6,317	6,135	38	28	21,765	21,415
Idaho	3,541	3,745	2,574	2,573	2,962	2,836	0	0	9,077	9,154
Montana	2,397	2,367	2,095	2,078	1,732	1,733	0	0	6,223	6,178
Nevada	4,161	4,082	4,515	4,098	4,669	4,983	3	3	13,349	13,167
New Mexico	2,526	2,449	3,570	3,436	3,133	2,940	0	0	9,229	8,825
Utah	3,291	3,333	4,542	4,471	3,698	3,827	21	25	11,553	11,655
Wyoming	1,240	1,265	1,542	1,557	4,252	4,188	0	0	7,035	7,009
Pacific Contiguous	57,335	59,826	63,375	64,066	32,718	32,416	336	348	153,764	156,656
California	32,173	33,343	44,385	44,724	18,075	17,935	322	335	94,956	96,338
Oregon	8,528	8,978	6,620	6,713	4,643	4,683	11	11	19,802	20,386
Washington	16,634	17,504	12,369	12,629	10,000	9,798	3	2	39,006	39,932
Pacific Noncontiguous	1,968	1,977	2,356	2,408	1,957	2,020	0	0	6,281	6,405
Alaska	906	941	1,158	1,182	560	574	0	0	2,623	2,696
Hawaii	1,063	1,036	1,198	1,226	1,397	1,447	0	0	3,658	3,709
U.S. Total	566,868	523,979	538,179	527,900	381,472	381,423	3,210	3,119	1,489,729	1,436,422

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.

Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, May 2018 and 2017 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	651	628	648	633	174	167	3	3	1,477	1,431
Connecticut	180	168	167	151	40	33	2	1	389	353
Maine	54	55	37	38	20	20	0	0	111	113
Massachusetts	289	285	318	334	71	76	1	1	680	696
New Hampshire	60	59	57	49	22	18	0	0	140	126
Rhode Island	42	36	44	39	9	8	0	0	96	83
Vermont	26	26	24	23	11	12	0	0	62	61
Middle Atlantic	1,474	1,405	1,476	1,503	415	406	33	33	3,397	3,347
New Jersey	316	305	382	389	58	60	2	2	758	756
New York	641	611	790	811	89	86	27	27	1,547	1,535
Pennsylvania	517	488	304	304	268	260	4	4	1,092	1,056
East North Central	1,891	1,683	1,586	1,521	1,122	1,094	3	3	4,602	4,301
Illinois	458	399	374	367	233	218	3	3	1,068	987
Indiana	295	263	208	201	257	259	0	0	760	722
Michigan	403	371	373	356	197	191	0	0	973	918
Ohio	484	419	409	385	277	274	0	0	1,171	1,079
Wisconsin	251	231	222	211	158	153	0	0	631	595
West North Central	981	889	862	807	547	522	0	0	2,390	2,218
Iowa	128	117	94	87	112	105	0	0	334	309
Kansas	149	124	136	132	75	71	0	0	361	327
Minnesota	222	201	204	197	140	134	0	0	567	533
Missouri	327	305	271	242	75	77	0	0	673	624
Nebraska	79	71	72	68	66	62	0	0	218	201
North Dakota	35	33	47	45	61	55	0	0	143	133
South Dakota	40	37	37	36	17	18	0	0	94	91
South Atlantic	3,155	3,144	2,465	2,428	770	761	8	8	6,399	6,341
Delaware	46	43	34	34	14	14	0	0	94	92
District of Columbia	23	21	78	76	1	1	2	3	105	100
Florida	1,078	1,190	734	785	108	111	1	1	1,920	2,087
Georgia	495	480	387	383	153	147	1	1	1,036	1,010
Maryland	249	247	250	253	28	26	3	4	530	530
North Carolina	496	454	347	328	141	150	0	0	983	932
South Carolina	294	286	191	189	141	137	0	0	626	613
Virginia	384	343	380	319	105	96	1	1	870	760
West Virginia	90	79	64	60	81	77	0	0	235	217
East South Central	975	918	800	762	482	501	0	0	2,257	2,180
Alabama	302	288	220	217	179	176	0	0	701	681
Kentucky	214	193	158	149	130	131	0	0	502	473
Mississippi	152	145	121	115	86	85	0	0	359	345
Tennessee	307	292	301	281	87	108	0	0	695	681
West South Central	1,808	1,670	1,299	1,331	827	854	1	1	3,935	3,856
Arkansas	119	116	74	80	78	82	0	0	271	278
Louisiana	211	212	174	178	149	154	0	0	534	544
Oklahoma	190	163	149	132	81	77	0	0	419	372
Texas	1,287	1,179	902	941	520	541	1	1	2,711	2,663
Mountain	926	885	812	788	452	446	1	1	2,191	2,121
Arizona	384	357	288	284	81	78	0	0	753	720
Colorado	170	163	169	162	96	92	1	1	435	417
Idaho	57	57	42	39	59	52	0	0	158	149
Montana	40	39	41	40	16	17	0	0	97	96
Nevada	126	118	81	72	54	56	0	0	260	246
New Mexico	61	59	77	75	38	38	0	0	176	172
Utah	67	69	85	87	48	51	0	1	200	207
Wyoming	22	23	29	30	60	61	0	0	111	113
Pacific Contiguous	1,633	1,563	1,708	1,747	665	621	6	5	4,011	3,936
California	1,252	1,165	1,393	1,429	512	470	5	5	3,162	3,069
Oregon	147	149	114	117	60	61	0	0	322	328
Washington	234	249	201	201	92	90	0	0	527	539
Pacific Noncontiguous	100	95	114	113	94	87	0	0	309	295
Alaska	33	32	40	44	19	19	0	0	93	95
Hawaii	67	63	74	69	75	68	0	0	216	200
U.S. Total	13,595	12,879	11,769	11,633	5,549	5,459	56	56	30,969	30,027

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.

Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through May 2018 and 2017 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	3,950	3,703	3,384	3,321	849	836	23	20	8,206	7,880
Connecticut	1,084	1,008	818	775	176	161	10	8	2,088	1,951
Maine	322	324	199	200	101	100	0	0	622	623
Massachusetts	1,768	1,652	1,719	1,756	358	379	11	10	3,856	3,799
New Hampshire	371	352	281	259	107	95	0	0	759	706
Rhode Island	245	217	244	215	47	43	2	2	539	477
Vermont	160	150	123	116	59	58	0	0	342	324
Middle Atlantic	8,519	7,943	7,554	7,515	2,073	2,012	181	176	18,327	17,645
New Jersey	1,645	1,573	1,843	1,831	286	290	12	11	3,785	3,706
New York	3,577	3,322	4,119	4,114	422	388	148	140	8,265	7,964
Pennsylvania	3,298	3,048	1,593	1,570	1,364	1,333	22	24	6,277	5,975
East North Central	10,095	9,137	7,528	7,304	5,324	5,245	18	16	22,964	21,702
Illinois	2,299	2,053	1,824	1,760	1,139	1,079	15	13	5,277	4,904
Indiana	1,627	1,440	994	960	1,207	1,228	1	1	3,829	3,630
Michigan	2,134	2,002	1,754	1,705	906	885	0	0	4,794	4,593
Ohio	2,715	2,381	1,893	1,837	1,329	1,314	1	1	5,938	5,533
Wisconsin	1,321	1,262	1,063	1,042	742	739	0	0	3,127	3,042
West North Central	5,051	4,597	3,925	3,762	2,498	2,422	2	2	11,477	10,783
Iowa	724	654	468	428	549	489	0	0	1,740	1,571
Kansas	679	595	638	607	327	327	0	0	1,644	1,529
Minnesota	1,201	1,147	945	952	637	639	1	1	2,784	2,738
Missouri	1,529	1,351	1,098	1,025	307	312	1	1	2,935	2,689
Nebraska	443	408	338	327	305	300	0	0	1,086	1,036
North Dakota	230	215	248	239	288	271	0	0	766	724
South Dakota	245	227	191	184	85	84	0	0	521	496
South Atlantic	16,844	15,287	11,611	11,349	3,590	3,531	39	42	32,085	30,208
Delaware	265	251	163	168	65	66	0	0	493	484
District of Columbia	131	117	385	367	6	6	11	12	533	502
Florida	5,300	5,028	3,502	3,514	515	523	3	3	9,320	9,068
Georgia	2,489	2,290	1,797	1,794	729	709	4	3	5,018	4,796
Maryland	1,541	1,473	1,243	1,251	127	126	15	17	2,926	2,868
North Carolina	2,707	2,312	1,645	1,559	649	647	0	0	5,001	4,518
South Carolina	1,529	1,355	858	858	644	644	0	0	3,030	2,857
Virginia	2,288	1,941	1,713	1,542	470	443	6	6	4,477	3,931
West Virginia	595	520	305	297	386	366	0	0	1,286	1,184
East South Central	5,454	4,810	3,798	3,615	2,269	2,392	0	0	11,521	10,817
Alabama	1,549	1,412	1,007	1,009	819	819	0	0	3,375	3,240
Kentucky	1,181	1,037	739	712	617	632	0	0	2,537	2,380
Mississippi	836	724	571	541	410	409	0	0	1,817	1,674
Tennessee	1,888	1,637	1,482	1,354	423	531	0	0	3,793	3,522
West South Central	9,034	7,872	6,247	6,054	3,856	3,920	7	6	19,144	17,852
Arkansas	738	636	375	371	389	375	0	0	1,502	1,382
Louisiana	1,090	954	859	820	738	710	1	1	2,688	2,485
Oklahoma	917	822	623	596	370	363	0	0	1,909	1,781
Texas	6,289	5,461	4,390	4,268	2,359	2,471	6	6	13,045	12,205
Mountain	4,210	4,114	3,605	3,505	1,989	1,979	6	6	9,811	9,604
Arizona	1,421	1,348	1,169	1,132	339	339	0	0	2,929	2,820
Colorado	859	851	788	767	450	436	3	3	2,101	2,057
Idaho	361	363	205	198	185	172	0	0	752	732
Montana	261	255	211	210	84	84	0	0	556	550
Nevada	514	490	359	323	250	252	0	0	1,123	1,066
New Mexico	310	308	346	342	181	177	0	0	837	827
Utah	345	360	379	382	210	224	2	3	937	969
Wyoming	138	139	148	150	290	294	0	0	577	583
Pacific Contiguous	8,470	8,523	8,277	8,091	2,855	2,699	29	28	19,630	19,340
California	5,952	5,938	6,604	6,432	2,117	1,968	28	27	14,701	14,365
Oregon	919	948	593	595	279	282	1	1	1,792	1,827
Washington	1,599	1,637	1,080	1,063	459	448	0	0	3,138	3,149
Pacific Noncontiguous	531	502	566	555	451	422	0	0	1,549	1,478
Alaska	195	199	217	231	97	97	0	0	510	527
Hawaii	336	302	349	324	354	325	0	0	1,039	952
U.S. Total	72,158	66,488	56,496	55,071	25,754	25,456	305	295	154,712	147,310

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.

Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, May 2018 and 2017 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	20.64	18.86	15.89	14.43	12.61	12.04	7.62	7.62	17.05	15.65
Connecticut	21.54	20.94	16.55	16.13	12.59	13.25	11.08	9.72	17.85	17.66
Maine	16.27	16.18	12.18	12.09	8.94	9.19	--	--	12.89	12.96
Massachusetts	21.69	18.58	16.13	14.06	14.30	12.83	4.82	5.55	17.74	15.38
New Hampshire	19.76	19.55	16.36	14.79	13.53	11.98	--	--	17.05	16.06
Rhode Island	20.03	16.89	15.61	13.80	14.54	14.16	16.87	19.56	17.17	15.04
Vermont	18.35	18.04	15.29	14.83	10.21	9.92	--	--	14.98	14.55
Middle Atlantic	16.23	16.48	12.04	12.64	6.88	6.97	11.09	11.46	12.29	12.62
New Jersey	15.87	16.22	12.24	12.97	9.62	10.18	8.83	9.16	13.21	13.77
New York	18.52	18.49	13.71	14.56	6.54	6.19	12.26	12.85	14.32	14.65
Pennsylvania	14.24	14.64	9.02	9.14	6.59	6.75	7.49	7.46	9.83	10.00
East North Central	13.68	13.75	10.20	10.36	6.94	7.07	6.77	6.80	10.10	10.14
Illinois	13.21	13.71	8.84	9.21	6.45	6.51	6.51	6.42	9.40	9.59
Indiana	12.30	12.30	10.20	10.30	7.06	7.42	10.68	12.31	9.41	9.54
Michigan	15.93	15.85	11.45	11.54	7.29	7.47	11.31	12.08	11.46	11.50
Ohio	12.81	12.51	10.09	10.10	6.66	6.69	7.64	7.91	9.75	9.58
Wisconsin	15.21	15.35	11.30	11.45	7.71	7.73	13.86	14.67	11.14	11.18
West North Central	12.73	12.52	10.01	10.04	7.28	7.09	8.60	8.40	10.03	9.85
Iowa	13.28	13.11	9.68	9.39	5.70	5.46	--	--	8.56	8.26
Kansas	12.85	13.77	10.39	10.57	7.92	7.77	--	--	10.53	10.67
Minnesota	13.77	13.37	10.60	10.72	8.00	7.71	9.33	8.88	10.70	10.47
Missouri	12.45	11.85	10.05	10.01	7.55	7.23	7.82	7.87	10.65	10.30
Nebraska	11.43	11.25	9.00	8.97	7.33	7.24	--	--	9.08	8.96
North Dakota	11.26	11.40	9.20	9.37	8.47	8.62	--	--	9.28	9.44
South Dakota	12.10	12.26	9.41	9.68	7.66	7.75	--	--	9.93	10.06
South Atlantic	11.91	11.87	9.24	9.33	6.26	6.28	7.74	7.98	9.76	9.80
Delaware	13.74	14.77	9.60	10.47	7.08	7.86	--	--	10.61	11.45
District of Columbia	13.73	13.54	11.60	11.57	7.99	8.30	9.10	9.34	11.87	11.80
Florida	11.54	11.38	9.29	9.29	7.60	7.71	7.86	8.24	10.29	10.25
Georgia	11.62	11.70	9.62	9.79	5.54	5.59	4.96	5.00	9.37	9.48
Maryland	13.33	14.53	10.30	10.98	8.15	8.36	7.57	8.03	11.33	12.14
North Carolina	11.41	11.27	8.33	8.64	5.77	5.72	8.26	8.51	8.98	8.92
South Carolina	12.85	12.99	10.09	10.21	5.89	5.98	--	--	9.53	9.64
Virginia	12.28	11.88	8.33	7.81	6.85	6.57	8.32	7.98	9.43	8.99
West Virginia	11.78	12.02	9.59	9.68	6.63	6.72	--	--	8.86	8.91
East South Central	11.46	11.43	10.41	10.47	5.91	5.88	--	--	9.27	9.15
Alabama	12.49	12.73	11.23	11.50	6.24	6.24	--	--	9.67	9.77
Kentucky	10.66	10.66	9.49	9.60	5.62	5.53	--	--	8.39	8.24
Mississippi	12.07	11.68	10.83	10.29	6.02	5.93	--	--	9.44	9.10
Tennessee	10.87	10.74	10.22	10.33	5.63	5.74	--	--	9.50	9.30
West South Central	11.07	10.90	8.15	8.33	5.41	5.59	8.53	8.35	8.27	8.28
Arkansas	9.89	10.49	7.54	8.56	5.23	5.85	11.81	11.93	7.38	8.08
Louisiana	9.53	9.88	8.65	8.98	5.15	5.29	9.23	10.01	7.51	7.73
Oklahoma	10.09	10.74	7.52	7.88	5.14	5.34	--	--	7.72	8.02
Texas	11.68	11.17	8.23	8.27	5.57	5.68	8.46	8.22	8.65	8.46
Mountain	12.28	12.19	9.92	9.96	6.44	6.43	9.28	9.79	9.63	9.59
Arizona	13.30	13.04	11.32	11.30	6.89	6.79	10.45	10.24	11.40	11.23
Colorado	11.96	11.91	10.09	9.84	7.24	7.15	8.56	9.72	9.83	9.69
Idaho	10.55	10.19	8.16	7.79	6.95	6.58	--	--	8.30	7.99
Montana	11.43	11.29	10.33	10.46	4.72	5.00	--	--	8.94	9.00
Nevada	12.05	12.15	7.80	7.85	5.37	5.18	7.47	7.98	8.46	8.28
New Mexico	12.14	12.83	9.69	10.26	5.62	6.04	--	--	8.93	9.46
Utah	10.79	11.09	9.11	9.36	6.13	6.42	10.66	10.07	8.55	8.82
Wyoming	11.99	11.71	9.96	10.01	6.95	7.19	--	--	8.29	8.47
Pacific Contiguous	15.78	15.16	13.64	13.18	9.29	9.11	8.32	7.53	13.33	12.92
California	18.91	18.29	15.60	14.96	12.64	12.20	8.28	7.46	16.08	15.47
Oregon	11.20	10.82	9.07	8.96	6.06	6.01	9.32	9.47	9.02	8.84
Washington	9.70	9.69	8.62	8.40	4.37	4.60	9.00	8.45	7.69	7.81
Pacific Noncontiguous	27.93	26.23	24.55	23.78	23.45	20.87	--	--	25.18	23.52
Alaska	22.16	22.03	18.90	20.63	17.51	16.77	--	--	19.61	20.14
Hawaii	32.03	29.07	29.35	26.36	25.70	22.39	--	--	28.68	25.56
U.S. Total	13.15	13.01	10.51	10.58	6.82	6.81	9.46	9.58	10.42	10.37

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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.

Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through May 2018 and 2017 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD	May 2018 YTD	May 2017 YTD
New England	20.52	18.73	16.32	14.57	13.16	12.27	9.80	8.59	17.58	15.88
Connecticut	21.01	19.99	16.78	15.90	13.85	13.16	14.02	10.70	18.35	17.41
Maine	15.96	16.01	12.39	12.28	9.23	9.41	--	--	13.18	13.24
Massachusetts	21.77	18.73	16.81	14.27	14.71	13.13	7.19	6.75	18.42	15.71
New Hampshire	19.68	18.90	15.99	14.63	13.71	12.36	--	--	17.16	16.04
Rhode Island	20.99	18.63	16.67	15.15	15.46	14.35	16.73	19.30	18.26	16.49
Vermont	17.80	17.50	15.14	14.55	10.49	10.08	--	--	15.04	14.54
Middle Atlantic	15.76	15.75	11.99	12.19	7.02	6.94	10.72	10.87	12.36	12.37
New Jersey	15.64	15.81	12.03	12.24	10.09	10.03	8.62	8.98	13.14	13.27
New York	17.97	17.49	13.69	13.96	6.13	5.76	11.75	12.13	14.22	14.13
Pennsylvania	13.94	14.19	9.05	9.11	6.89	6.89	7.32	7.26	10.23	10.23
East North Central	13.17	13.15	10.13	10.11	7.03	7.03	6.80	6.63	10.12	10.02
Illinois	12.71	12.71	8.93	8.93	6.65	6.44	6.57	6.27	9.44	9.29
Indiana	11.78	11.91	10.30	10.28	7.14	7.40	10.58	11.65	9.48	9.54
Michigan	15.58	15.44	11.28	11.10	7.35	7.37	10.99	12.19	11.53	11.38
Ohio	12.36	12.16	10.00	10.02	6.77	6.68	7.11	7.62	9.81	9.61
Wisconsin	14.48	14.54	10.92	11.00	7.62	7.66	13.79	14.35	10.93	10.94
West North Central	11.34	11.37	9.37	9.37	7.05	6.95	8.20	8.14	9.41	9.34
Iowa	11.90	11.64	9.28	8.83	5.87	5.42	--	--	8.50	8.06
Kansas	12.87	13.01	10.35	10.27	7.41	7.51	--	--	10.37	10.30
Minnesota	12.82	12.73	10.02	10.32	7.52	7.61	9.22	9.26	10.20	10.28
Missouri	10.31	10.41	8.79	8.69	6.67	6.56	7.07	6.97	9.19	9.10
Nebraska	10.10	10.21	8.67	8.69	7.45	7.41	--	--	8.77	8.77
North Dakota	9.64	9.74	8.80	9.00	8.47	8.59	--	--	8.90	9.04
South Dakota	11.05	11.07	9.26	9.35	7.70	7.68	--	--	9.68	9.68
South Atlantic	11.70	11.76	9.45	9.41	6.38	6.31	7.56	7.91	9.91	9.84
Delaware	12.59	13.61	9.47	10.32	7.71	8.00	--	--	10.56	11.28
District of Columbia	12.98	12.93	11.78	11.68	8.18	8.27	8.90	9.50	11.91	11.82
Florida	11.77	11.58	9.59	9.52	7.82	7.79	8.10	8.45	10.57	10.41
Georgia	11.08	11.43	9.75	9.95	5.66	5.57	5.29	4.96	9.32	9.43
Maryland	13.18	14.31	10.56	11.07	8.55	8.41	7.12	7.84	11.63	12.30
North Carolina	11.10	11.01	8.64	8.49	6.04	5.90	8.35	8.84	9.23	8.98
South Carolina	12.48	12.71	10.17	10.34	5.85	5.89	--	--	9.56	9.55
Virginia	11.54	11.22	8.35	7.76	6.84	6.51	8.41	7.84	9.47	8.93
West Virginia	11.36	11.60	9.58	9.76	6.61	6.76	--	--	9.02	9.14
East South Central	11.06	11.20	10.50	10.54	5.76	5.89	--	--	9.23	9.18
Alabama	12.26	12.62	11.34	11.61	5.92	6.05	--	--	9.55	9.69
Kentucky	10.32	10.52	9.56	9.64	5.46	5.59	--	--	8.33	8.34
Mississippi	11.41	11.27	10.81	10.35	5.98	6.05	--	--	9.33	9.09
Tennessee	10.54	10.58	10.37	10.41	5.72	5.91	--	--	9.58	9.40
West South Central	10.74	10.69	8.30	8.37	5.38	5.38	8.55	8.44	8.28	8.15
Arkansas	9.84	9.86	8.15	8.26	5.53	5.62	11.52	11.67	7.85	7.84
Louisiana	9.26	9.10	9.02	8.76	5.27	5.08	9.95	10.02	7.61	7.34
Oklahoma	9.95	10.48	7.64	7.82	5.07	5.19	--	--	7.75	7.93
Texas	11.31	11.18	8.28	8.39	5.44	5.46	8.45	8.31	8.58	8.41
Mountain	11.81	11.56	9.45	9.38	6.17	6.14	9.44	9.81	9.25	9.13
Arizona	12.70	12.09	10.44	10.19	6.18	6.09	9.38	9.04	10.51	10.13
Colorado	11.79	11.82	9.70	9.53	7.13	7.11	8.89	9.92	9.65	9.61
Idaho	10.21	9.69	7.98	7.70	6.24	6.05	--	--	8.28	8.00
Montana	10.89	10.79	10.06	10.10	4.85	4.87	--	--	8.93	8.90
Nevada	12.35	12.01	7.95	7.89	5.35	5.06	7.83	7.87	8.41	8.10
New Mexico	12.27	12.57	9.69	9.95	5.78	6.04	--	--	9.07	9.37
Utah	10.49	10.80	8.34	8.55	5.69	5.85	10.68	10.02	8.11	8.31
Wyoming	11.13	11.01	9.62	9.65	6.83	7.02	--	--	8.20	8.32
Pacific Contiguous	14.77	14.25	13.06	12.63	8.73	8.32	8.60	8.04	12.77	12.35
California	18.50	17.81	14.88	14.38	11.71	10.97	8.57	7.99	15.48	14.91
Oregon	10.78	10.56	8.95	8.87	6.01	6.03	9.25	9.29	9.05	8.96
Washington	9.61	9.35	8.73	8.42	4.59	4.57	9.58	9.27	8.04	7.89
Pacific Noncontiguous	26.98	25.38	24.04	23.05	23.06	20.88	--	--	24.66	23.08
Alaska	21.58	21.17	18.77	19.53	17.37	16.85	--	--	19.44	19.53
Hawaii	31.59	29.20	29.14	26.43	25.34	22.47	--	--	28.40	25.66
U.S. Total	12.73	12.69	10.50	10.43	6.75	6.67	9.50	9.47	10.39	10.26

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.

Table 5.7. Number of Ultimate Customers Served by Sector: 2008 - May 2018

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	131,068,719	18,148,290	838,099	83	150,055,191
2017	132,572,042	18,323,932	821,267	85	151,717,327
Year 2016					
January	130,327,243	18,001,806	829,287	78	149,158,414
February	130,114,828	18,022,657	825,209	81	148,962,775
March	131,333,340	18,185,531	835,990	86	150,354,947
April	130,452,160	18,064,005	823,879	82	149,340,126
May	131,002,108	18,133,949	840,080	85	149,976,222
June	131,282,771	18,174,804	853,646	86	150,311,307
July	131,086,905	18,130,289	847,849	83	150,065,126
August	131,346,501	18,227,261	859,607	83	150,433,452
Sept	131,374,997	18,207,555	846,336	83	150,428,971
October	131,318,899	18,203,386	838,393	84	150,360,762
November	131,325,418	18,183,746	824,510	84	150,333,758
December	131,859,453	18,244,491	832,403	84	150,936,431
Year 2017					
January	131,863,431	18,225,561	808,008	84	150,897,084
February	131,376,684	18,136,945	797,401	84	150,311,114
March	132,758,623	18,322,415	816,055	84	151,897,177
April	131,802,218	18,162,546	803,225	85	150,768,074
May	133,093,868	18,323,788	829,718	85	152,247,459
June	132,810,755	18,339,737	837,435	85	151,988,012
July	132,296,207	18,344,928	831,768	85	151,472,988
August	132,980,967	18,427,812	847,850	85	152,256,714
Sept	132,427,305	18,344,964	826,688	85	151,599,042
October	133,098,434	18,426,160	829,169	85	152,353,848
November	133,065,798	18,420,680	813,432	85	152,299,995
December	133,290,218	18,411,649	814,459	85	152,516,411
Year 2018					
January	133,315,177	18,481,157	815,775	84	152,612,193
February	132,952,662	18,367,853	771,598	84	152,092,197
March	133,917,871	18,505,704	782,504	84	153,206,163
April	133,468,618	18,458,677	782,651	84	152,710,030
May	134,234,873	18,538,214	806,137	84	153,579,308
Rolling 12 Months Ending in May					
2017	131,707,481	18,211,899	829,763	84	150,749,226
2018	133,154,907	18,422,295	813,289	85	152,390,575

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 2016 and prior years are final. Values for 2018 and 2017 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:
May 2018 and 2017

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	6,424,437	6,370,895	898,881	887,814	20,224	26,893	6	6	7,343,548	7,285,608
Connecticut	1,505,015	1,498,699	153,971	153,206	4,286	4,438	3	3	1,663,275	1,656,346
Maine	702,954	715,809	98,531	100,180	3,015	3,145	0	0	804,500	819,134
Massachusetts	2,829,551	2,779,115	420,660	411,158	7,841	14,031	2	2	3,258,054	3,204,306
New Hampshire	622,957	619,227	107,964	107,661	3,158	3,268	0	0	734,079	730,156
Rhode Island	448,202	440,994	60,682	59,400	1,789	1,787	1	1	510,674	502,182
Vermont	315,758	317,051	57,073	56,209	135	224	0	0	372,966	373,484
Middle Atlantic	16,158,062	16,070,528	2,342,310	2,299,543	29,952	42,224	20	20	18,530,344	18,412,315
New Jersey	3,570,273	3,544,049	521,589	516,506	11,965	11,702	6	6	4,103,833	4,072,263
New York	7,188,002	7,152,715	1,106,867	1,085,526	6,690	7,591	8	8	8,301,567	8,245,840
Pennsylvania	5,399,787	5,373,764	713,854	697,511	11,297	22,931	6	6	6,124,944	6,094,212
East North Central	20,260,632	20,245,573	2,502,750	2,492,716	46,769	53,223	9	9	22,810,160	22,791,521
Illinois	5,306,632	5,309,146	614,801	610,795	3,985	5,746	3	3	5,925,421	5,925,690
Indiana	2,854,137	2,873,755	352,496	350,215	15,199	17,740	1	1	3,221,833	3,241,711
Michigan	4,399,670	4,368,974	550,363	550,729	NM	NM	2	2	4,955,700	4,925,521
Ohio	4,981,805	5,001,272	628,243	626,661	17,019	19,089	2	2	5,627,069	5,647,024
Wisconsin	2,718,388	2,692,426	356,847	354,316	NM	NM	1	1	3,080,137	3,051,575
West North Central	9,554,825	9,758,697	1,467,466	1,456,229	114,707	116,923	3	3	11,137,001	11,331,852
Iowa	1,395,597	1,382,023	245,275	243,379	NM	NM	0	0	1,647,795	1,632,328
Kansas	1,285,150	1,270,684	236,514	232,237	25,997	25,972	0	0	1,547,661	1,528,893
Minnesota	2,411,890	2,387,372	291,132	288,876	NM	NM	1	1	2,711,282	2,684,503
Missouri	2,815,054	3,089,780	382,912	383,409	6,797	9,377	2	2	3,204,765	3,482,568
Nebraska	863,767	853,121	163,762	162,087	55,581	55,378	0	0	1,083,110	1,070,586
North Dakota	380,122	377,085	73,840	73,253	8,083	7,942	0	0	462,045	458,280
South Dakota	403,245	398,632	74,031	72,988	NM	NM	0	0	480,343	474,694
South Atlantic	27,915,208	27,580,815	3,799,167	3,743,515	79,087	80,369	13	13	31,793,475	31,404,712
Delaware	427,096	424,637	52,723	53,751	596	1,192	0	0	480,415	479,580
District of Columbia	273,488	266,246	26,275	26,076	1	1	3	3	299,767	292,326
Florida	9,360,716	9,239,961	1,235,383	1,218,880	20,524	20,896	2	2	10,616,625	10,479,739
Georgia	4,381,124	4,321,361	585,227	574,992	19,859	19,741	1	1	4,986,211	4,916,095
Maryland	2,331,557	2,316,937	253,777	252,567	8,753	8,867	5	5	2,594,092	2,578,376
North Carolina	4,557,015	4,491,333	704,077	683,795	9,904	9,985	1	1	5,270,997	5,185,114
South Carolina	2,292,743	2,258,442	367,573	361,652	4,306	4,309	0	0	2,664,622	2,624,403
Virginia	3,433,624	3,402,932	430,347	427,971	3,747	3,799	1	1	3,867,719	3,834,703
West Virginia	857,845	858,966	143,785	143,831	11,397	11,579	0	0	1,013,027	1,014,376
East South Central	8,464,918	8,491,025	1,401,197	1,384,327	23,001	25,014	0	0	9,889,116	9,900,366
Alabama	2,255,901	2,238,871	370,953	366,484	8,289	8,227	0	0	2,635,143	2,613,582
Kentucky	1,996,768	2,029,782	302,626	300,051	6,103	7,716	0	0	2,305,497	2,337,549
Mississippi	1,316,771	1,307,860	239,991	236,459	7,770	7,665	0	0	1,564,532	1,551,984
Tennessee	2,895,478	2,914,512	487,627	481,333	839	1,406	0	0	3,383,944	3,397,251
West South Central	16,210,508	15,897,050	2,262,628	2,233,509	193,029	187,845	6	6	18,666,171	18,318,410
Arkansas	1,394,168	1,383,165	192,392	190,307	32,421	31,520	2	2	1,618,983	1,604,994
Louisiana	2,097,812	2,085,843	293,594	290,858	18,741	18,787	1	1	2,410,148	2,395,489
Oklahoma	1,785,335	1,765,946	285,468	281,586	17,988	18,036	0	0	2,088,791	2,065,568
Texas	10,933,193	10,662,096	1,491,174	1,470,758	123,879	119,502	3	3	12,548,249	12,252,359
Mountain	9,785,676	9,628,670	1,393,867	1,378,559	88,897	89,067	5	5	11,268,445	11,096,301
Arizona	2,785,397	2,741,514	321,222	318,960	6,586	6,967	2	2	3,113,207	3,067,443
Colorado	2,321,349	2,283,122	364,631	360,332	14,636	14,663	1	1	2,700,617	2,658,118
Idaho	739,887	723,960	110,242	108,494	28,686	28,418	0	0	878,815	860,872
Montana	511,477	504,825	110,235	108,552	NM	NM	0	0	629,288	620,964
Nevada	1,178,856	1,161,394	164,663	163,115	NM	NM	1	1	1,346,991	1,327,996
New Mexico	901,687	891,764	139,405	138,156	8,548	8,663	0	0	1,049,640	1,038,583
Utah	1,072,962	1,049,855	124,691	122,404	9,586	9,524	1	1	1,207,240	1,181,784
Wyoming	274,061	272,236	58,778	58,546	9,808	9,759	0	0	342,647	340,541
Pacific Contiguous	18,733,283	18,331,813	2,356,124	2,332,856	208,264	205,987	22	23	21,297,693	20,870,679
California	13,890,060	13,569,674	1,713,521	1,701,577	153,238	150,690	14	15	15,756,833	15,421,956
Oregon	1,785,679	1,737,028	246,119	238,589	26,237	26,357	2	2	2,058,037	2,001,976
Washington	3,057,544	3,025,111	396,484	392,690	28,789	28,940	6	6	3,482,823	3,446,747
Pacific Noncontiguous	727,324	718,802	113,824	114,720	NM	NM	0	0	843,355	835,695
Alaska	291,000	286,441	54,011	53,394	NM	NM	0	0	346,426	341,225
Hawaii	436,324	432,361	59,813	61,326	792	783	0	0	496,929	494,470
U.S. Total	134,234,873	133,093,868	18,538,214	18,323,788	806,137	829,718	84	85	153,579,308	152,247,459

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.
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.

Table 6.1. Electric Generating Summer Capacity Changes (MW), April 2018 to May 2018

		As of End of April 2018	Activity During May 2018 as Reported to EIA		As of End of May 2018	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	88,593.9	3.0	20.9	88,576.0	-17.9	1,061.7	5,299.7	709.9	7,159.5	25.0	25.0	684.9	7,134.5	89,260.9	95,710.5
..... Offshore Wind (Summer Capacity)	Utility Scale Facilities	29.3	0.0	0.0	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.3	29.3
..... Wind (Summer Capacity)	Utility Scale Facilities	88,623.2	3.0	20.9	88,605.3	-17.9	1,061.7	5,299.7	709.9	7,159.5	25.0	25.0	684.9	7,134.5	89,290.2	95,739.8
..... Solar Photovoltaic	Utility Scale Facilities	26,726.6	456.1	0.0	27,182.7	456.1	2,275.9	5,254.9	232.4	4,209.5	0.0	1.2	232.4	4,208.3	27,415.1	31,391.0
..... 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	28,484.5	456.1	0.0	28,940.6	456.1	2,275.9	5,254.9	232.4	4,209.5	0.0	1.2	232.4	4,208.3	29,173.0	33,148.9
..... Conventional Hydroelectric	Utility Scale Facilities	79,961.2	13.2	109.3	79,865.1	-96.1	-192.7	-52.7	0.0	245.3	0.0	6.1	0.0	239.2	79,865.1	80,104.3
..... Wood/Wood Waste Biomass	Utility Scale Facilities	8,864.3	0.0	25.2	8,839.1	-25.2	-223.3	-172.5	0.0	167.9	0.0	24.8	0.0	143.1	8,839.1	8,982.2
..... Landfill Gas	Utility Scale Facilities	2,096.5	0.0	17.2	2,079.3	-17.2	-28.8	-24.3	0.0	4.2	1.7	3.7	-1.7	0.5	2,077.6	2,079.8
..... Municipal Solid Waste	Utility Scale Facilities	2,245.0	0.0	0.0	2,245.0	0.0	-1.8	-1.8	0.0	0.0	10.0	10.0	-10.0	-10.0	2,235.0	2,235.0
..... Other Waste Biomass	Utility Scale Facilities	777.1	11.0	0.0	788.1	11.0	9.9	16.1	50.4	84.4	0.0	0.4	50.4	84.0	838.5	872.1
..... Biomass Sources Subtotal	Utility Scale Facilities	13,982.9	11.0	42.4	13,951.5	-31.4	-244.0	-182.5	50.4	256.5	11.7	38.9	38.7	217.6	13,990.2	14,169.1
..... Geothermal	Utility Scale Facilities	2,485.6	0.0	0.0	2,485.6	0.0	-7.0	30.0	0.0	39.9	0.0	0.0	0.0	39.9	2,485.6	2,525.5
... Renewable Sources Subtotal	**Utility Scale Facilities**	**213,537.4**	**483.3**	**172.6**	**213,848.1**	**310.7**	**2,893.9**	**10,349.4**	**992.7**	**11,910.7**	**36.7**	**71.2**	**956.0**	**11,839.5**	**214,804.1**	**225,687.6**
..... Natural Gas Fired Combined Cycle	Utility Scale Facilities	251,310.8	2,780.1	51.5	254,039.4	2,728.6	7,663.5	12,062.9	4,722.0	11,907.0	163.0	213.0	4,559.0	11,694.0	258,598.4	265,733.4
..... Natural Gas Fired Combustion Turbine	Utility Scale Facilities	127,207.9	242.1	213.5	127,236.5	28.6	31.8	631.5	4.0	2,155.1	26.0	295.1	-22.0	1,860.0	127,214.5	129,096.5
..... Natural Gas Steam Turbine	Utility Scale Facilities	76,761.5	1,329.4	1,090.6	77,000.3	238.8	2,289.8	1,197.8	0.0	1.0	701.4	1,625.2	-701.4	-1,624.2	76,298.9	75,376.1
..... Natural Gas Internal Combustion Engine	Utility Scale Facilities	4,377.4	12.9	0.0	4,390.3	12.9	105.4	160.4	11.3	545.2	3.9	4.8	7.4	540.4	4,397.7	4,930.7
..... 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	122.1	0.0	0.0	122.1	0.0	0.3	0.3	1.4	40.8	0.0	0.0	1.4	40.8	123.5	162.9
..... Natural Gas Subtotal	Utility Scale Facilities	459,889.7	4,364.5	1,355.6	462,898.6	3,008.9	10,090.8	14,052.9	4,738.7	14,649.1	894.3	2,138.1	3,844.4	12,511.0	466,743.0	475,409.6
..... Conventional Steam Coal	Utility Scale Facilities	249,535.1	0.0	1,350.0	248,185.1	-1,350.0	-11,265.1	-15,759.9	0.0	17.0	3,196.0	7,291.4	-3,196.0	-7,274.4	244,989.1	240,910.7
..... 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	250,350.1	0.0	1,350.0	249,000.1	-1,350.0	-11,265.1	-15,759.9	0.0	17.0	3,196.0	7,291.4	-3,196.0	-7,274.4	245,804.1	241,725.7
..... Petroleum Coke	Utility Scale Facilities	1,468.9	0.0	0.0	1,468.9	0.0	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	1,468.9	1,468.9
..... Petroleum Liquids	Utility Scale Facilities	31,740.6	163.3	2.0	31,901.9	161.3	-321.3	-1,000.7	3.0	22.1	173.8	182.8	-170.8	-160.7	31,731.1	31,741.2
..... Other Gases	Utility Scale Facilities	2,375.8	0.0	0.0	2,375.8	0.0	-81.1	-81.1	0.0	0.0	0.0	0.0	0.0	0.0	2,375.8	2,375.8
... Fossil Fuels Subtotal	**Utility Scale Facilities**	**745,825.1**	**4,527.8**	**2,707.6**	**747,645.3**	**1,820.2**	**-1,574.5**	**-2,786.6**	**4,741.7**	**14,688.2**	**4,264.1**	**9,612.3**	**477.6**	**5,075.9**	**748,122.9**	**752,721.2**
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,809.7	57.0	0.0	22,866.7	57.0	58.0	58.0	0.0	57.0	0.0	0.0	0.0	57.0	22,866.7	22,923.7
..... Flywheels	Utility Scale Facilities	47.0	31.2	0.0	78.2	31.2	36.2	36.2	0.0	0.0	0.0	0.0	0.0	0.0	78.2	78.2
..... Batteries	Utility Scale Facilities	696.0	19.5	0.0	715.5	19.5	10.3	60.9	44.6	112.8	0.0	0.0	44.6	112.8	760.1	828.3
... Energy Storage Subtotal	**Utility Scale Facilities**	**23,552.7**	**107.7**	**0.0**	**23,660.4**	**107.7**	**104.5**	**155.1**	**44.6**	**169.8**	**0.0**	**0.0**	**44.6**	**169.8**	**23,705.0**	**23,830.2**
... Nuclear	**Utility Scale Facilities**	**99,642.1**	**0.0**	**13.2**	**99,628.9**	**-13.2**	**-5.7**	**13.3**	**0.0**	**0.0**	**0.0**	**1,284.9**	**0.0**	**-1,284.9**	**99,628.9**	**98,344.0**
... All Other	**Utility Scale Facilities**	**1,775.2**	**0.0**	**0.0**	**1,775.2**	**0.0**	**356.3**	**356.3**	**0.9**	**48.8**	**0.0**	**0.0**	**0.9**	**48.8**	**1,776.1**	**1,824.0**
TOTAL	**UTILITY SCALE FACILITIES**	**1,084,332.5**	**5,118.8**	**2,893.4**	**1,086,557.9**	**2,225.4**	**1,774.5**	**8,087.5**	**5,779.9**	**26,817.5**	**4,300.8**	**10,968.4**	**1,479.1**	**15,849.1**	**1,088,037.0**	**1,102,407.0**
..... Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	17,228.3			17,552.2	323.9	1,328.1	3,292.8								
..... Estimated Total Solar Photovoltaic	All Facilities	43,954.9			44,734.9	780.0	3,604.0	8,547.7								
... Estimated Total Solar	**All Facilities**	**45,712.8**			**46,492.8**	**780.0**	**3,604.0**	**8,547.7**								

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 - May 2018

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	20,192.9	12,765.1	32,958.0
2017	24,906.8	16,224.2	41,131.0
Year 2016			
January	12,470.5	9,865.6	22,336.1
February	12,615.2	10,123.1	22,738.3
March	12,822.0	10,440.2	23,262.2
April	13,298.0	10,687.8	23,985.8
May	13,419.8	10,927.9	24,347.7
June	13,635.3	11,185.2	24,820.5
July	14,360.4	11,385.3	25,745.7
August	15,297.1	11,670.6	26,967.7
Sept	16,064.3	11,913.3	27,977.6
October	16,477.2	12,156.4	28,633.6
November	17,192.0	12,446.4	29,638.4
December	20,192.9	12,765.1	32,958.0
Year 2017			
January	20,487.3	13,028.2	33,515.5
February	20,674.8	13,332.8	34,007.6
March	21,013.3	13,722.5	34,735.8
April	21,530.7	13,971.4	35,502.1
May	21,927.8	14,259.4	36,187.2
June	22,151.3	14,543.5	36,694.8
July	22,264.5	14,810.2	37,074.7
August	22,443.8	15,104.9	37,548.7
Sept	22,653.0	15,340.6	37,993.6
October	23,001.1	15,582.9	38,584.0
November	23,538.3	15,868.6	39,406.9
December	24,906.8	16,224.2	41,131.0
Year 2018			
January	25,689.0	16,655.5	42,344.5
February	25,809.8	16,893.0	42,702.8
March	26,390.2	16,971.7	43,361.9
April	26,726.6	17,228.3	43,954.9
May	27,182.7	17,552.2	44,734.9

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 6.1.B. Estimated Net Summer Solar Photovoltaic Capacity From Small Scale Facilities by Sector (Megawatts):
2014 - May 2018

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	7,527.0	4,022.8	1,215.3	12,765.1
2017	9,574.0	5,146.5	1,503.7	16,224.2
Year 2016				
January	5,428.5	3,419.8	1,017.3	9,865.6
February	5,627.1	3,458.3	1,037.7	10,123.1
March	5,852.7	3,521.8	1,065.8	10,440.2
April	6,051.1	3,552.6	1,084.1	10,687.8
May	6,238.7	3,589.1	1,100.0	10,927.9
June	6,432.3	3,640.4	1,112.5	11,185.2
July	6,592.9	3,660.7	1,131.7	11,385.3
August	6,785.8	3,734.2	1,150.5	11,670.6
Sept	6,957.7	3,794.2	1,161.5	11,913.3
October	7,147.1	3,837.6	1,171.8	12,156.4
November	7,332.8	3,930.7	1,182.9	12,446.4
December	7,527.0	4,022.8	1,215.3	12,765.1
Year 2017				
January	7,708.1	4,105.9	1,214.2	13,028.2
February	7,895.4	4,151.7	1,285.7	13,332.8
March	8,124.1	4,286.3	1,312.1	13,722.5
April	8,275.0	4,372.5	1,324.0	13,971.4
May	8,456.1	4,456.1	1,347.2	14,259.4
June	8,618.5	4,555.2	1,369.8	14,543.5
July	8,776.9	4,637.7	1,395.5	14,810.2
August	8,956.2	4,734.4	1,414.3	15,104.9
Sept	9,105.0	4,797.4	1,438.2	15,340.6
October	9,254.3	4,884.2	1,444.4	15,582.9
November	9,416.4	4,978.0	1,474.3	15,868.6
December	9,574.0	5,146.5	1,503.7	16,224.2
Year 2018				
January	9,787.4	5,349.7	1,518.4	16,655.5
February	9,996.0	5,378.3	1,518.8	16,893.0
March	10,169.7	5,289.9	1,512.1	16,971.7
April	10,320.8	5,370.4	1,537.1	17,228.3
May	10,496.8	5,494.7	1,560.7	17,552.2

Values are preliminary.
Final data for 2016 monthly has changed based on new data elements collected from EIA-861 Schedule 7B. Data is now collected by sector, previously it was allocated to the commercial sector.
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.
In March 2018, the net decrease in sector capacity is due to the correction of incorrectly reported virtual net metering and net metering capacity

Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State, May 2018 and 2017 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	5,703.6	5,560.9	22,844.3	22,747.7	1,797.4	1,797.4	24.7	21.5	4,014.1	4,014.1	320.9	52.9	34,705.0	34,194.5
Connecticut	384.2	353.5	7,005.6	6,320.7	29.4	29.4	1.6	0.8	2,087.8	2,087.8	298.9	30.9	9,807.5	8,823.1
Maine	2,345.6	2,418.2	2,538.5	2,442.5	0.0	0.0	16.2	16.2	0.0	0.0	22.0	22.0	4,922.3	4,898.9
Massachusetts	1,301.7	1,169.1	9,108.3	9,805.0	1,768.0	1,768.0	4.9	2.5	677.2	677.2	0.0	0.0	12,860.1	13,421.8
New Hampshire	928.9	928.9	2,262.9	2,266.0	0.0	0.0	0.0	0.0	1,249.1	1,249.1	0.0	0.0	4,440.9	4,444.0
Rhode Island	113.3	101.6	1,831.1	1,815.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,944.4	1,917.2
Vermont	629.9	589.6	97.9	97.9	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	729.8	689.5
Middle Atlantic	10,996.8	10,930.1	69,275.9	69,539.3	3,409.1	3,409.1	72.4	71.4	19,295.6	19,294.5	15.7	11.2	103,065.5	103,255.6
New Jersey	909.7	864.3	12,061.6	13,591.6	420.0	420.0	1.0	1.0	4,107.9	4,107.9	15.7	11.2	17,515.9	18,996.0
New York	7,235.5	7,183.3	26,942.0	26,166.2	1,406.1	1,406.1	21.0	20.0	5,390.7	5,389.6	0.0	0.0	40,995.3	40,165.2
Pennsylvania	2,851.6	2,882.5	30,272.3	29,781.5	1,583.0	1,583.0	50.4	50.4	9,797.0	9,797.0	0.0	0.0	44,554.3	44,094.4
East North Central	11,673.9	10,811.1	114,961.7	113,185.5	2,191.0	2,133.0	167.4	187.4	19,024.4	19,033.7	188.1	110.1	148,206.5	145,460.8
Illinois	4,430.7	4,172.4	28,934.1	28,987.8	0.0	0.0	112.4	112.4	11,577.4	11,587.3	78.0	0.0	45,132.6	44,859.9
Indiana	2,446.8	2,206.2	24,510.4	23,121.0	0.0	0.0	22.0	22.0	0.0	0.0	89.0	89.0	27,068.2	25,438.2
Michigan	2,636.1	2,467.8	20,790.5	20,616.7	2,191.0	2,133.0	0.0	0.0	4,119.8	4,119.8	0.0	0.0	29,737.4	29,337.3
Ohio	931.3	843.2	27,390.3	25,939.5	0.0	0.0	33.0	53.0	2,134.0	2,134.0	0.0	0.0	30,488.6	28,969.7
Wisconsin	1,229.0	1,121.5	13,336.4	14,520.5	0.0	0.0	0.0	0.0	1,193.2	1,192.6	21.1	21.1	15,779.7	16,855.7
West North Central	26,799.2	25,372.3	60,861.9	61,077.2	657.0	657.0	3.2	2.0	5,443.4	5,444.9	24.5	24.5	93,789.2	92,577.9
Iowa	7,315.7	6,967.8	9,918.4	10,085.4	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,835.5	17,654.6
Kansas	5,136.2	4,956.8	9,781.8	9,793.2	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	16,143.8	15,975.8
Minnesota	5,031.0	4,539.9	10,301.0	10,088.3	0.0	0.0	1.0	1.0	1,657.0	1,657.0	18.4	18.4	17,008.4	16,304.6
Missouri	1,567.9	1,245.2	18,386.9	18,578.4	657.0	657.0	2.2	1.0	1,190.0	1,190.0	0.0	0.0	21,804.0	21,671.6
Nebraska	1,718.8	1,633.0	6,148.4	6,215.5	0.0	0.0	0.0	0.0	770.0	771.5	0.0	0.0	8,637.2	8,620.0
North Dakota	3,592.8	3,592.8	4,633.6	4,624.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,231.7	8,222.7
South Dakota	2,436.8	2,436.8	1,691.8	1,691.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,128.6	4,128.6
South Atlantic	19,080.7	17,114.0	160,295.6	159,808.6	7,905.2	7,905.2	94.5	80.5	24,602.6	24,598.6	452.7	446.7	212,431.3	209,953.6
Delaware	46.1	46.4	3,331.4	3,329.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,377.5	3,375.9
District of Columbia	23.0	12.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.0	21.0
Florida	2,460.9	1,697.3	51,924.4	53,289.3	0.0	0.0	14.0	0.0	3,572.0	3,572.0	348.7	348.7	58,320.0	58,907.3
Georgia	3,960.0	3,913.7	26,973.7	26,938.4	1,862.2	1,862.2	1.0	1.0	4,061.0	4,061.0	44.0	44.0	36,901.9	36,820.3
Maryland	1,147.1	1,087.1	11,481.3	10,287.3	0.0	0.0	13.0	13.0	1,707.8	1,707.8	6.0	0.0	14,355.2	13,095.2
North Carolina	6,165.4	5,542.1	21,644.3	21,604.9	86.0	86.0	1.0	1.0	5,117.6	5,113.6	54.0	54.0	33,068.3	32,401.6
South Carolina	2,123.4	1,915.1	12,137.2	11,472.3	2,716.0	2,716.0	0.0	0.0	6,576.2	6,576.2	0.0	0.0	23,552.8	22,679.6
Virginia	2,127.7	1,864.5	19,013.0	18,714.6	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	27,949.7	27,388.1
West Virginia	1,027.1	1,035.8	13,781.3	14,163.3	0.0	0.0	65.5	65.5	0.0	0.0	0.0	0.0	14,873.9	15,264.6
East South Central	8,686.2	8,430.4	65,256.7	65,714.5	1,616.3	1,616.3	0.0	0.0	10,984.1	10,984.1	1.4	1.4	86,544.7	86,746.7
Alabama	4,072.3	4,084.3	20,309.2	20,260.8	0.0	0.0	0.0	0.0	5,060.4	5,060.4	0.0	0.0	29,441.9	29,405.5
Kentucky	1,245.4	1,150.6	18,874.3	18,874.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,119.7	20,024.9
Mississippi	435.3	281.3	13,882.9	14,278.0	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	15,720.6	15,961.7
Tennessee	2,933.2	2,914.2	12,190.3	12,301.4	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,262.5	21,354.6
West South Central	36,319.1	32,885.6	139,633.7	141,395.7	286.0	286.0	98.3	41.0	8,910.7	8,910.7	512.7	512.9	185,760.5	184,031.9
Arkansas	1,689.3	1,610.1	11,193.0	11,245.2	28.0	28.0	0.0	0.0	1,817.8	1,817.8	0.0	0.0	14,728.1	14,701.1
Louisiana	683.2	682.1	20,600.7	20,697.2	0.0	0.0	0.5	0.0	2,132.9	2,132.9	288.7	288.9	23,706.0	23,801.1
Oklahoma	8,463.1	7,602.4	18,577.0	18,176.7	258.0	258.0	0.0	0.0	0.0	0.0	0.0	0.0	27,298.1	26,037.1
Texas	25,483.5	22,991.0	89,263.0	91,276.6	0.0	0.0	97.8	41.0	4,960.0	4,960.0	224.0	224.0	120,028.3	119,492.6
Mountain	26,168.1	25,363.2	62,291.3	63,386.7	778.8	778.8	33.6	42.6	3,937.0	3,937.0	126.3	126.3	93,335.1	93,634.6
Arizona	5,035.8	4,994.0	19,407.3	19,407.3	216.3	216.3	30.0	40.0	3,937.0	3,937.0	0.0	0.0	28,626.4	28,594.6
Colorado	4,284.1	4,162.2	11,119.2	11,345.2	562.5	562.5	1.0	0.0	0.0	0.0	9.3	9.3	15,976.1	16,079.2
Idaho	4,011.9	4,013.3	1,127.6	1,137.7	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,154.3	5,165.8
Montana	3,471.3	3,437.3	2,740.4	2,740.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,255.7	6,221.7
Nevada	3,571.4	3,343.4	7,791.6	7,791.6	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	11,369.5	11,141.5
New Mexico	2,398.7	2,031.1	5,966.8	6,828.3	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,368.1	8,862.0
Utah	1,600.5	1,587.5	7,360.2	7,348.2	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	9,000.9	8,975.9
Wyoming	1,794.4	1,794.4	6,778.2	6,788.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,584.1	8,593.9
Pacific Contiguous	67,289.5	65,913.0	48,003.0	49,360.1	4,225.9	4,225.9	211.9	165.7	3,417.0	3,398.0	106.3	106.3	123,253.6	123,169.0
California	30,352.0	29,077.6	38,925.1	40,294.3	3,911.9	3,911.9	199.5	155.5	2,240.0	2,240.0	106.3	106.3	75,734.8	75,785.6
Oregon	12,219.7	12,061.2	4,318.1	4,318.1	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,542.8	16,384.3
Washington	24,717.8	24,774.2	4,759.8	4,747.7	314.0	314.0	7.4	5.2	1,177.0	1,158.0	0.0	0.0	30,976.0	30,999.1
Pacific Noncontiguous	1,131.0	1,118.1	4,221.2	4,216.6	0.0	0.0	87.7	84.5	0.0	0.0	26.6	26.6	5,466.5	5,445.8
Alaska	538.0	538.0	2,162.9	2,159.4	0.0	0.0	46.2	45.0	0.0	0.0	0.0	0.0	2,747.1	2,742.4
Hawaii	593.0	580.1	2,058.3	2,057.2	0.0	0.0	41.5	39.5	0.0	0.0	26.6	26.6	2,719.4	2,703.4
U.S. Total	213,848.1	203,498.7	747,645.3	750,431.9	22,866.7	22,808.7	793.7	696.6	99,628.9	99,615.6	1,775.2	1,418.9	1,086,557.9	1,078,470.4

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, May 2018 and 2017 (Megawatts)

	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
Census Division and State	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	1,402.1	1,349.5	810.6	632.5	0.0	0.0	1,960.7	1,957.4	1,530.2	1,621.5	0.0	0.0	5,703.6	5,560.9	1,883.3	1,537.0	2,693.9	2,169.5	2,693.9	2,169.5
Connecticut	1.0	1.1	57.5	26.7	0.0	0.0	122.2	122.2	203.5	203.5	0.0	0.0	384.2	353.5	359.0	289.3	416.5	316.0	416.5	316.0
Maine	921.6	898.8	5.6	4.1	0.0	0.0	732.4	732.4	686.0	782.9	0.0	0.0	2,345.6	2,418.2	36.8	27.0	42.4	31.1	42.4	31.1
Massachusetts	94.4	94.5	654.6	525.8	0.0	0.0	267.4	265.9	285.3	282.9	0.0	0.0	1,301.7	1,169.1	1,259.5	1,049.3	1,914.1	1,575.1	1,914.1	1,575.1
New Hampshire	183.1	183.1	0.0	0.0	0.0	0.0	504.8	504.8	241.0	241.0	0.0	0.0	928.9	928.9	75.3	60.3	75.3	60.3	75.3	60.3
Rhode Island	51.8	51.8	18.7	10.2	0.0	0.0	2.7	2.7	40.1	36.9	0.0	0.0	113.3	101.6	57.5	33.5	76.2	43.7	76.2	43.7
Vermont	150.2	120.2	74.2	65.7	0.0	0.0	331.2	329.4	74.3	74.3	0.0	0.0	629.9	589.6	95.2	77.6	169.4	143.3	169.4	143.3
Middle Atlantic	3,205.6	3,204.1	877.5	783.6	0.0	0.0	5,633.9	5,630.7	1,279.8	1,311.7	0.0	0.0	10,996.8	10,930.1	2,724.8	2,233.4	3,602.3	3,017.0	3,602.3	3,017.0
New Jersey	7.6	7.6	662.5	617.1	0.0	0.0	12.3	12.3	227.3	227.3	0.0	0.0	909.7	864.3	1,356.8	1,141.3	2,019.3	1,758.4	2,019.3	1,758.4
New York	1,826.2	1,824.7	163.2	115.7	0.0	0.0	4,722.0	4,718.8	524.1	524.1	0.0	0.0	7,235.5	7,183.3	1,074.0	847.5	1,237.2	963.2	1,237.2	963.2
Pennsylvania	1,371.8	1,371.8	51.8	50.8	0.0	0.0	899.6	899.6	528.4	560.3	0.0	0.0	2,851.6	2,882.5	294.0	244.6	345.8	295.4	345.8	295.4
East North Central	9,142.2	8,322.7	402.8	347.3	0.0	0.0	857.3	853.1	1,271.6	1,288.0	0.0	0.0	11,673.9	10,811.1	326.6	238.9	729.4	586.2	729.4	586.2
Illinois	4,261.8	3,983.8	34.8	32.8	0.0	0.0	34.1	34.1	100.0	121.7	0.0	0.0	4,430.7	4,172.4	57.3	35.5	92.1	68.3	92.1	68.3
Indiana	2,109.4	1,889.7	196.7	172.6	0.0	0.0	60.4	60.4	80.3	83.5	0.0	0.0	2,446.8	2,206.2	60.4	18.2	257.1	190.8	257.1	190.8
Michigan	1,735.8	1,583.8	74.3	60.5	0.0	0.0	266.9	263.0	559.1	560.5	0.0	0.0	2,636.1	2,467.8	53.6	57.6	127.9	118.1	127.9	118.1
Ohio	605.9	533.9	76.1	67.5	0.0	0.0	101.9	101.9	147.4	139.9	0.0	0.0	931.3	843.2	106.2	91.6	182.3	159.1	182.3	159.1
Wisconsin	429.3	331.5	20.9	13.9	0.0	0.0	394.0	393.7	384.8	382.4	0.0	0.0	1,229.0	1,121.5	49.1	36.0	70.0	49.9	70.0	49.9
West North Central	22,246.6	21,139.7	703.5	390.1	0.0	0.0	3,291.7	3,289.4	557.4	553.1	0.0	0.0	26,799.2	25,372.3	287.6	230.3	991.1	620.4	991.1	620.4
Iowa	7,140.2	6,798.9	7.7	2.6	0.0	0.0	146.4	144.9	21.4	21.4	0.0	0.0	7,315.7	6,967.8	77.2	55.5	84.9	58.1	84.9	58.1
Kansas	5,116.0	4,939.6	4.2	1.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	5,136.2	4,956.8	15.2	9.4	19.4	10.6	19.4	10.6
Minnesota	3,707.9	3,506.5	632.2	346.8	0.0	0.0	205.9	205.9	485.0	480.7	0.0	0.0	5,031.0	4,539.9	52.4	36.8	684.6	383.6	684.6	383.6
Missouri	954.3	654.3	48.6	28.7	0.0	0.0	548.5	545.7	16.5	16.5	0.0	0.0	1,567.9	1,245.2	136.9	124.8	185.5	153.5	185.5	153.5
Nebraska	1,417.4	1,329.6	9.8	9.8	0.0	0.0	275.9	277.9	15.7	15.7	0.0	0.0	1,718.8	1,633.0	5.2	3.1	15.0	12.9	15.0	12.9
North Dakota	3,073.0	3,073.0	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	3,592.8	3,592.8	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	837.8	1.0	1.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	2,436.8	2,436.8	0.6	0.5	1.6	1.5	1.6	1.5
South Atlantic	1,086.3	1,086.3	6,394.5	4,414.8	0.0	0.0	7,229.2	7,270.8	4,370.7	4,342.1	0.0	0.0	19,080.7	17,114.0	1,498.4	1,176.0	7,892.9	5,590.8	7,892.9	5,590.8
Delaware	2.0	2.0	31.9	32.2	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	46.1	46.4	70.7	61.0	102.6	93.2	102.6	93.2
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	12.0	0.0	0.0	23.0	12.0	44.0	31.0	44.0	31.0	44.0	31.0
Florida	0.0	0.0	1,109.6	352.6	0.0	0.0	54.5	54.5	1,296.8	1,290.2	0.0	0.0	2,460.9	1,697.3	229.0	158.6	1,338.6	511.2	1,338.6	511.2
Georgia	0.0	0.0	1,010.9	968.1	0.0	0.0	2,047.2	2,047.2	901.9	898.4	0.0	0.0	3,960.0	3,913.7	NM	129.1	NM	1,097.2	NM	1,097.2
Maryland	190.0	190.0	225.1	165.1	0.0	0.0	590.0	590.0	142.0	142.0	0.0	0.0	1,147.1	1,087.1	663.0	546.0	888.1	711.1	888.1	711.1
North Carolina	208.0	208.0	3,383.8	2,768.0	0.0	0.0	2,002.0	2,002.0	571.6	564.1	0.0	0.0	6,165.4	5,542.1	122.9	120.3	3,506.7	2,888.3	3,506.7	2,888.3
South Carolina	0.0	0.0	263.9	22.7	0.0	0.0	1,328.7	1,361.6	530.8	530.8	0.0	0.0	2,123.4	1,915.1	153.5	86.5	417.4	109.2	417.4	109.2
Virginia	0.0	0.0	369.3	106.1	0.0	0.0	866.0	866.0	892.4	892.4	0.0	0.0	2,127.7	1,864.5	53.4	38.5	422.7	144.6	422.7	144.6
West Virginia	686.3	686.3	0.0	0.0	0.0	0.0	340.8	349.5	0.0	0.0	0.0	0.0	1,027.1	1,035.8	6.1	5.1	6.1	5.1	6.1	5.1
East South Central	29.1	29.1	448.4	172.5	0.0	0.0	6,979.7	6,957.2	1,229.0	1,271.6	0.0	0.0	8,686.2	8,430.4	88.0	79.7	536.4	252.2	536.4	252.2
Alabama	0.0	0.0	172.2	85.6	0.0	0.0	3,214.2	3,270.2	685.9	728.5	0.0	0.0	4,072.3	4,084.3	NM	NM	NM	NM	NM	NM
Kentucky	0.0	0.0	26.3	10.0	0.0	0.0	1,146.9	1,068.4	72.2	72.2	0.0	0.0	1,245.4	1,150.6	19.8	15.4	46.1	25.4	46.1	25.4
Mississippi	0.0	0.0	160.6	6.6	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	435.3	281.3	6.9	5.9	167.5	12.5	167.5	12.5
Tennessee	29.1	29.1	89.3	70.3	0.0	0.0	2,618.6	2,618.6	196.2	196.2	0.0	0.0	2,933.2	2,914.2	55.4	53.6	144.7	123.9	144.7	123.9
West South Central	30,274.7	27,561.8	1,745.5	1,008.3	0.0	0.0	2,987.5	2,990.3	1,311.4	1,325.2	0.0	0.0	36,319.1	32,885.6	678.2	533.0	2,423.7	1,541.3	2,423.7	1,541.3
Arkansas	0.0	0.0	95.0	13.0	0.0	0.0	1,263.9	1,266.7	330.4	330.4	0.0	0.0	1,689.3	1,610.1	11.1	6.2	106.1	19.2	106.1	19.2
Louisiana	0.0	0.0	1.1	0.0	0.0	0.0	192.0	192.0	490.1	490.1	0.0	0.0	683.2	682.1	135.1	122.6	136.2	122.6	136.2	122.6
Oklahoma	7,494.8	6,644.1	30.5	20.5	0.0	0.0	861.6	861.6	76.2	76.2	0.0	0.0	8,463.1	7,602.4	6.1	3.2	36.6	23.7	36.6	23.7
Texas	22,779.9	20,917.7	1,618.9	974.8	0.0	0.0	670.0	670.0	414.7	428.5	0.0	0.0	25,483.5	22,991.0	525.7	401.0	2,144.6	1,375.8	2,144.6	1,375.8
Mountain	8,834.5	8,404.5	5,530.7	5,204.2	473.9	473.9	10,574.4	10,562.8	174.3	174.5	580.3	543.3	26,168.1	25,363.2	2,031.4	1,706.4	7,562.1	6,910.6	8,036.0	7,384.5
Arizona	267.3	267.3	1,721.5	1,679.7	295.4	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	5,035.8	4,994.0	1,063.6	910.6	2,785.1	2,590.3	3,080.5	2,885.7
Colorado	3,103.2	3,026.1	464.8	420.0	0.0	0.0	687.4	687.4	28.7	28.7	0.0	0.0	4,284.1	4,162.2	338.8	306.9	803.6	726.9	803.6	726.9
Idaho	970.5	970.5	240.0	240.0	0.0	0.0	2,707.5	2,708.9	83.9	83.9	10.0	10.0	4,011.9	4,013.3	17.9	8.7	257.9	248.7	257.9	248.7
Montana	703.5	678.5	17.0	8.0	0.0	0.0	2,747.8	2,747.8	3.0	3.0	0.0	0.0	3,471.3	3,437.3	11.8	9.2	28.8	17.2	28.8	17.2
Nevada	150.0	150.0	1,686.0	1,495.0	178.5	178.5	1,051.4	1,051.4	9.8	9.8	495.7	458.7	3,571.4	3,343.4	252.9	215.6	1,938.9	1,710.6	2,117.4	1,889.1
New Mexico	1,764.5	1,436.6	544.3	504.4	0.0	0.0	82.9	82.9	5.4	5.6	1.6	1.6	2,398.7	2,031.1	129.3	98.5	673.6	602.9	673.6	602.9
Utah	388.2	388.2	857.1	857.1	0.0	0.0	269.4	256.4	12.8	12.8	73.0	73.0	1,600.5	1,587.5	213.2	154.3	1,070.3	1,011.4	1,070.3	1,011.4
Wyoming	1,487.3	1,487.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,794.4	1,794.4	3.8	2.7	3.8	2.7	3.8	2.7
Pacific Contiguous	12,118.0	11,941.7	10,168.0	8,876.2	1,284.0	1,284.0	39,854.4	39,909.8	2,002.8	2,032.0	1,862.3	1,869.3	67,289.5	65,913.0	7,440.1	5,974.6	17,608.1	14,850.8	18,892.1	16,134.8
California	5,834.7	5,658.4	9,915.4	8,775.8	1,284.0	1,284.0	10,197.7	10,190.4	1,277.4	1,319.2	1,842.8	1,849.8	30,352.0	29,077.6	7,186.5	5,763.3	17,101.9	14,539.1	18,385.9	15,823.1
Oregon	3,210.2	3,210.2	252.1	99.9	0.0	0.0	8,423.2	8,423.2	314.7	308.4	19.5	19.5	12,219.7	12,061.2	144.5	126.1	396.6	226.0	396.6	226.0
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,233.5	21,296.2	410.7	404.4	0.0	0.0	24,717.8	24,774.2	109.2	85.2	109.7	85.7	109.7	85.7
Pacific Noncontiguous	266.2	266.2	101.2	98.3	0.0	0.0	496.3	496.3	224.3	214.3	43.0	43.0	1,131.0	1,118.1	593.8	550.1	695.0	648.4	695.0	648.4
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.4	470.4	7.0	7.0	0.0	0.0	538.0	538.0	2.5	1.6	2.5	1.6	2.5	1.6
Hawaii	205.6	205.6	101.2	98.3	0.0	0.0	25.9	25.9	217.3	207.3	43.0	43.0	593.0	580.1	591.3	548.5	692.5	646.8	692.5	646.8
U.S. Total	88,605.3	83,305.6	27,182.7	21,927.8	1,757.9	1,757.9	79,865.1	79,917.8	13,951.5	14,134.0	2,485.6	2,455.6	213,848.1	203,498.7	17,552.2	14,259.4	44,734.9	36,187.2	46,492.8	37,945.1

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, May 2018 and 2017 (Megawatts)

Census Division and State	Natural Gas Fired Combined Cycle		Natural Gas Fired Combustion Turbine		Other Natural Gas		Coal		Petroleum Coke		Petroleum Liquids		Other Gases		Total Fossil Fuels	
	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017
New England	13,404.7	12,060.8	1,208.8	1,088.9	1,607.7	1,051.7	917.3	1,955.3	0.0	0.0	5,705.8	6,591.0	0.0	0.0	22,844.3	22,747.7
Connecticut	3,147.1	2,562.4	567.6	467.3	872.4	424.6	383.4	383.4	0.0	0.0	2,035.1	2,483.0	0.0	0.0	7,005.6	6,320.7
Maine	1,250.0	1,250.0	297.1	297.1	110.5	14.5	0.0	0.0	0.0	0.0	880.9	880.9	0.0	0.0	2,538.5	2,442.5
Massachusetts	5,989.4	5,230.2	333.5	320.7	199.7	200.0	0.0	1,038.0	0.0	0.0	2,585.7	3,016.1	0.0	0.0	9,108.3	9,805.0
New Hampshire	1,231.0	1,231.0	3.8	3.8	400.2	400.2	533.9	533.9	0.0	0.0	94.0	97.1	0.0	0.0	2,262.9	2,266.0
Rhode Island	1,787.2	1,787.2	6.8	0.0	24.9	12.4	0.0	0.0	0.0	0.0	12.2	16.0	0.0	0.0	1,831.1	1,815.6
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.9	97.9	0.0	0.0	97.9	97.9
Middle Atlantic	27,641.4	26,323.4	7,666.4	7,712.9	14,674.0	14,301.6	13,534.2	15,617.2	78.6	78.6	5,552.1	5,380.4	129.2	125.2	69,275.9	69,539.3
New Jersey	8,158.0	8,118.9	2,829.0	2,857.3	42.6	1,113.2	613.0	1,245.0	11.6	11.6	384.0	222.2	23.4	23.4	12,061.6	13,591.6
New York	8,896.8	8,125.3	3,157.1	3,176.1	9,688.5	9,677.3	1,640.2	1,640.2	0.0	0.0	3,559.4	3,547.3	0.0	0.0	26,942.0	26,166.2
Pennsylvania	10,586.6	10,079.2	1,680.3	1,679.5	4,942.9	3,511.1	11,281.0	12,732.0	67.0	67.0	1,608.7	1,610.9	105.8	101.8	30,272.3	29,781.5
East North Central	20,747.0	17,138.0	26,536.1	26,465.8	4,206.5	3,906.3	59,492.3	61,604.1	247.6	247.6	2,639.3	2,657.8	1,092.9	1,165.9	114,961.7	113,185.5
Illinois	3,580.2	3,576.8	10,388.3	10,313.3	288.9	290.9	13,966.0	14,015.1	0.0	0.0	674.2	677.2	36.5	114.5	28,934.1	28,987.8
Indiana	3,807.0	2,406.0	3,355.8	3,363.2	729.1	725.9	15,761.4	15,773.8	0.0	0.0	237.8	237.8	619.3	614.3	24,510.4	23,121.0
Michigan	4,421.0	4,294.5	3,977.6	3,977.7	2,387.6	2,134.7	9,218.7	9,414.2	47.2	47.2	488.4	498.4	250.0	250.0	20,790.5	20,616.7
Ohio	6,188.0	4,117.8	5,442.1	5,431.7	189.2	157.3	14,605.4	15,263.6	142.0	142.0	636.5	640.0	187.1	187.1	27,390.3	25,939.5
Wisconsin	2,750.8	2,742.9	3,372.3	3,379.9	611.7	597.5	5,940.8	7,137.4	58.4	58.4	602.4	604.4	0.0	0.0	13,336.4	14,520.5
West North Central	6,635.2	6,641.9	11,739.3	11,512.7	4,586.3	4,270.6	34,009.5	34,625.1	32.0	32.0	3,851.2	3,986.5	8.4	8.4	60,861.9	61,077.2
Iowa	1,774.7	1,774.7	1,266.6	1,246.9	655.6	578.7	5,391.4	5,548.8	32.0	32.0	798.1	904.3	0.0	0.0	9,918.4	10,085.4
Kansas	266.0	266.0	2,148.3	2,154.0	2,096.7	2,111.0	4,714.2	4,714.2	0.0	0.0	556.6	548.0	0.0	0.0	9,781.8	9,793.2
Minnesota	2,172.0	2,172.0	2,671.4	2,437.9	361.1	375.1	4,309.4	4,309.4	0.0	0.0	787.1	793.9	0.0	0.0	10,301.0	10,088.3
Missouri	1,789.9	1,796.6	3,399.6	3,420.5	836.1	501.0	11,260.8	11,726.1	0.0	0.0	1,100.5	1,134.2	0.0	0.0	18,386.9	18,578.4
Nebraska	342.6	342.6	1,150.8	1,150.8	516.5	584.5	3,817.3	3,817.3	0.0	0.0	321.2	320.3	0.0	0.0	6,148.4	6,215.5
North Dakota	0.0	0.0	408.0	408.0	111.6	111.6	4,042.4	4,035.3	0.0	0.0	63.2	61.3	8.4	8.4	4,633.6	4,624.6
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	474.0	474.0	0.0	0.0	224.5	224.5	0.0	0.0	1,691.8	1,691.8
South Atlantic	54,499.9	52,646.5	32,665.6	32,323.1	7,317.0	7,237.9	55,186.3	56,870.7	83.8	83.8	10,408.0	10,511.6	135.0	135.0	160,295.6	159,808.6
Delaware	1,512.0	1,512.0	317.2	315.2	843.1	843.2	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,331.4	3,329.5
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	27,351.7	27,444.7	8,494.1	8,520.3	2,479.6	2,469.3	8,629.0	9,881.0	0.0	0.0	4,970.0	4,974.0	0.0	0.0	51,924.4	53,289.3
Georgia	7,963.9	7,963.9	7,787.2	7,787.2	842.9	796.4	9,350.5	9,360.5	83.8	83.8	945.4	946.6	0.0	0.0	26,973.7	26,938.4
Maryland	2,169.6	976.0	1,965.6	1,966.2	1,414.2	1,414.2	4,712.0	4,712.0	0.0	0.0	1,219.9	1,218.9	0.0	0.0	11,481.3	10,287.3
North Carolina	4,724.8	4,724.8	6,045.1	5,957.7	0.0	0.0	10,536.8	10,536.8	0.0	0.0	337.6	385.6	0.0	0.0	21,644.3	21,604.9
South Carolina	3,152.0	2,399.0	2,763.8	2,801.9	546.0	546.0	5,212.0	5,212.0	0.0	0.0	463.4	513.4	0.0	0.0	12,137.2	11,472.3
Virginia	7,625.9	7,626.1	4,194.3	3,894.3	1,068.2	1,045.8	3,778.0	3,800.4	0.0	0.0	2,346.6	2,348.0	0.0	0.0	19,013.0	18,714.6
West Virginia	0.0	0.0	1,089.3	1,071.3	123.0	123.0	12,558.0	12,958.0	0.0	0.0	11.0	11.0	0.0	0.0	13,781.3	14,163.3
East South Central	21,537.7	20,197.9	12,646.9	13,002.4	5,946.8	5,371.9	24,963.5	26,980.5	0.0	0.0	142.0	142.0	19.8	19.8	65,256.7	65,714.5
Alabama	9,471.9	9,441.4	2,532.2	2,532.2	2,791.3	1,941.4	5,451.4	6,283.4	0.0	0.0	42.6	42.6	19.8	19.8	20,309.2	20,260.8
Kentucky	1,763.0	1,763.0	4,976.6	4,976.6	260.0	260.0	11,862.8	11,862.8	0.0	0.0	11.9	11.9	0.0	0.0	18,874.3	18,874.3
Mississippi	7,847.7	7,590.5	1,357.6	1,718.9	2,829.3	3,104.3	1,804.0	1,820.0	0.0	0.0	44.3	44.3	0.0	0.0	13,882.9	14,278.0
Tennessee	2,455.1	1,403.0	3,780.5	3,774.7	66.2	66.2	5,845.3	7,014.3	0.0	0.0	43.2	43.2	0.0	0.0	12,190.3	12,301.4
West South Central	60,612.6	58,025.8	13,976.4	13,423.6	31,663.5	31,730.3	31,593.2	36,423.7	957.9	955.7	174.8	181.3	655.3	655.3	139,633.7	141,395.7
Arkansas	4,566.0	4,620.5	702.8	702.8	802.0	793.7	5,110.0	5,116.0	0.0	0.0	12.2	12.2	0.0	0.0	11,193.0	11,245.2
Louisiana	7,537.0	7,552.8	2,357.9	2,372.8	6,528.4	6,573.9	2,832.6	2,852.9	894.1	891.9	43.3	45.5	407.4	407.4	20,600.7	20,697.2
Oklahoma	7,247.6	6,783.7	1,684.9	1,287.9	5,235.5	5,164.9	4,334.6	4,865.8	0.0	0.0	74.4	74.4	0.0	0.0	18,577.0	18,176.7
Texas	41,262.0	39,068.8	9,230.8	9,060.1	19,097.6	19,197.8	19,316.0	23,589.0	63.8	63.8	44.9	49.2	247.9	247.9	89,263.0	91,276.6
Mountain	22,483.8	22,483.8	8,638.9	8,659.0	3,663.9	3,341.9	26,989.0	28,367.6	52.0	52.0	356.3	370.8	107.4	111.6	62,291.3	63,386.7
Arizona	9,891.6	9,891.6	2,367.6	2,367.6	1,303.6	1,303.6	5,754.0	5,754.0	0.0	0.0	90.5	90.5	0.0	0.0	19,407.3	19,407.3
Colorado	3,240.5	3,240.5	2,572.3	2,572.3	639.0	329.0	4,499.0	5,035.0	0.0	0.0	168.4	168.4	0.0	0.0	11,119.2	11,345.2
Idaho	547.7	547.7	552.0	562.1	14.0	14.0	8.5	8.5	0.0	0.0	5.4	5.4	0.0	0.0	1,127.6	1,137.7
Montana	0.0	0.0	321.6	321.6	72.2	72.2	2,293.1	2,293.1	52.0	52.0	0.0	0.0	1.5	1.5	2,740.4	2,740.4
Nevada	5,415.0	5,415.0	1,185.6	1,185.6	444.6	444.6	740.4	740.4	0.0	0.0	6.0	6.0	0.0	0.0	7,791.6	7,791.6
New Mexico	1,465.0	1,465.0	966.0	976.0	849.4	849.4	2,634.0	3,471.0	0.0	0.0	52.4	66.9	0.0	0.0	5,966.8	6,828.3
Utah	1,830.0	1,830.0	520.2	520.2	328.2	316.2	4,654.0	4,654.0	0.0	0.0	27.8	27.8	0.0	0.0	7,360.2	7,348.2
Wyoming	94.0	94.0	153.6	153.6	12.9	12.9	6,406.0	6,411.6	0.0	0.0	5.8	5.8	105.9	110.1	6,778.2	6,788.0
Pacific Contiguous	25,997.9	25,979.2	11,531.8	11,790.3	7,782.0	8,877.0	1,982.0	1,982.0	17.0	17.0	470.9	485.3	221.4	229.3	48,003.0	49,360.1
California	19,969.4	19,962.8	10,678.6	10,937.1	7,526.0	8,621.0	57.0	57.0	17.0	17.0	455.7	470.1	221.4	229.3	38,925.1	40,294.3
Oregon	3,374.9	3,374.9	133.8	133.8	224.4	224.4	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	4,318.1	4,318.1
Washington	2,653.6	2,641.5	719.4	719.4	31.6	31.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,759.8	4,747.7
Pacific Noncontiguous	479.2	479.2	626.3	626.3	175.0	175.0	332.8	333.8	0.0	0.0	2,601.5	2,595.9	6.4	6.4	4,221.2	4,216.6
Alaska	479.2	479.2	626.3	626.3	175.0	175.0	152.8	153.8	0.0	0.0	729.6	725.1	0.0	0.0	2,162.9	2,159.4
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,871.9	1,870.8	6.4	6.4	2,058.3	2,057.2
U.S. Total	254,039.4	241,976.5	127,236.5	126,605.0	81,622.7	80,264.2	249,000.1	264,760.0	1,468.9	1,466.7	31,901.9	32,902.6	2,375.8	2,456.9	747,645.3	750,431.9

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, 2018

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	1	60118	83WI 8ME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV
2018	1	60571	AEP Onsite Partners	IPP	Porter Way Community Solar Garden	MN	61500	PV1	3.0	Solar Photovoltaic	SUN	PV
2018	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3A	0.4	Petroleum Liquids	DFO	IC
2018	1	56769	Consolidated Edison Development Inc.	IPP	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV
2018	1	4254	Consumers Energy Co	Electric Utility	Cross Winds Energy Park	MI	58830	CWEP2	44.0	Onshore Wind Turbine	WND	WT
2018	1	61060	Cypress Creek Renewables	IPP	LeSun CSG, LLC	MN	61544	GEN1	5.0	Solar Photovoltaic	SUN	PV
2018	1	61060	Cypress Creek Renewables	IPP	WrightSun CSG, LLC	MN	61547	GEN1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Versailles	OH	61437	AMPVS	1.8	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40802	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40803	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40804	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40805	1.0	Solar Photovoltaic	SUN	PV
2018	1	61187	DG Minnesota CSG, LLC	IPP	Scandia CSG	MN	61585	40806	1.0	Solar Photovoltaic	SUN	PV
2018	1	56215	E ON Climate Renewables N America LLC	IPP	Pyron Wind Farm LLC	TX	56981	PYRBT	9.9	Batteries	MWH	BA
2018	1	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN5	3.9	Petroleum Liquids	DFO	IC
2018	1	57249	EPP Renewable Energy	IPP	Haworth Water Treatment Plant	NJ	56701	GEN6	3.9	Petroleum Liquids	DFO	IC
2018	1	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 5, LLC	OR	61423	PV1	8.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN1	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN2	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN3	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN4	1.0	Solar Photovoltaic	SUN	PV
2018	1	61015	ETCAP NES CS MN 08 LLC	IPP	Johnson Solar	MN	61380	JOHN5	1.0	Solar Photovoltaic	SUN	PV
2018	1	59218	East. Michigan Univ. Heating Plant	Commercial	East. Michigan Univ. Heating Plant	MI	59452	COGN2	6.8	Natural Gas Fired Combustion Turbine	NG	GT
2018	1	6452	Florida Power & Light Co	Electric Utility	Coral Farms Solar Energy Center	FL	61022	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Horizon Solar Energy Center	FL	61021	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Indian River Solar Center	FL	61020	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	6452	Florida Power & Light Co	Electric Utility	Wildflower Solar Energy Center	FL	61050	1	74.5	Solar Photovoltaic	SUN	PV
2018	1	7140	Georgia Power Co	Electric Utility	Comer Solar	GA	61554	1	2.0	Solar Photovoltaic	SUN	PV
2018	1	59462	Heelstone Energy Holdings, LLC	IPP	Chiloquin Solar, LLC	OR	61631	CHILO	9.9	Solar Photovoltaic	SUN	PV
2018	1	12341	MidAmerican Energy Co	IPP	Prairie Wind Farm	IA	60873	PWE	168.0	Onshore Wind Turbine	WND	WT
2018	1	61227	Nautilus Solar Solutions	IPP	Kilroy Solar	CA	61628	KILRO	1.1	Solar Photovoltaic	SUN	PV
2018	1	60644	OEE XXIV LLC	Industrial	Whirlpool Corporation - Ottawa Wind Farm	OH	61004	W1	1.5	Onshore Wind Turbine	WND	WT
2018	1	49748	ORCAL Geothermal, Inc	IPP	Heber Geothermal	CA	54689	4	16.0	Geothermal	GEO	BT
2018	1	60882	Red Dirt Wind Project, LLC	IPP	Red Dirt Wind Project	OK	61270	RDDRT	299.3	Onshore Wind Turbine	WND	WT
2018	1	60520	SoCore Energy LLC	IPP	Gopher CSG	MN	61426	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Lahr 1, LLC	MN	61203	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV2	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV3	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV4	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Nesvold Watertown Solar	MN	60958	PV5	1.0	Solar Photovoltaic	SUN	PV
2018	1	60520	SoCore Energy LLC	IPP	Taylors Falls CSG	MN	61428	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	1	60871	Stuttgart Solar, LLC	IPP	Stuttgart Solar	AR	61262	STGRT	81.0	Solar Photovoltaic	SUN	PV
2018	1	60881	Thunder Ranch Wind Project, LLC	IPP	Thunder Ranch Wind Project	OK	61269	WT1	297.8	Onshore Wind Turbine	WND	WT
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	1	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	2	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	3	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	4	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	1	24431	Utah Municipal Power Agency	Electric Utility	Provo Power Plant	UT	61508	5	2.4	Natural Gas Internal Combustion Engine	NG	IC
2018	2	61105	ABEC #2 LLC	IPP	ABEC #2 dba West-Star Dairy	CA	61501	GEN1	1.0	Other Waste Biomass	OBG	IC
2018	2	61106	ABEC #3 LLC	IPP	ABEC #3 dba Lakeview Dairy	CA	61502	GEN1	1.0	Other Waste Biomass	OBG	IC
2018	2	61107	ABEC #4 LLC	IPP	ABEC #4 dba CE&S Dairy	CA	61503	GEN1	1.0	Other Waste Biomass	OBG	IC
2018	2	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 2	CA	61723	IRV2W	3.3	Batteries	MWH	BA
2018	2	59247	Bearford Solar II, LLC	IPP	Bearford Solar II	NC	59488	BEARF	4.9	Solar Photovoltaic	SUN	PV
2018	2	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKAT	360.0	Onshore Wind Turbine	WND	WT
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS1	0.9	Solar Photovoltaic	SUN	PV
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS2	0.9	Solar Photovoltaic	SUN	PV
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS3	0.9	Solar Photovoltaic	SUN	PV
2018	2	60827	Carina Community Solar	IPP	Carina Community Solar	MN	61179	JCCS4	0.9	Solar Photovoltaic	SUN	PV
2018	2	56769	Consolidated Edison Development Inc.	IPP	Big Timber Wind Farm	MT	61155	BT-MT	25.0	Onshore Wind Turbine	WND	WT
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Coldwater	MI	61435	AMPCW	1.3	Solar Photovoltaic	SUN	PV
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Jackson Center	OH	61438	AMPJC	1.6	Solar Photovoltaic	SUN	PV
2018	2	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Orrville 3	OH	61436	AMPO3	2.3	Solar Photovoltaic	SUN	PV
2018	2	57249	EPP Renewable Energy	IPP	Pennsauken Solar	NJ	56883	GEN10	2.4	Solar Photovoltaic	SUN	PV
2018	2	7140	Georgia Power Co	Electric Utility	Marine Corps Logistics Base Solar	GA	59876	1	31.0	Solar Photovoltaic	SUN	PV
2018	2	61171	Lake Waconia Solar IV LLC	IPP	Lake Waconia IV Community Solar Garden	MN	61573	40926	1.0	Solar Photovoltaic	SUN	PV
2018	2	61170	Lake Waconia Solar LLC	IPP	Lake Waconia Community Solar Garden	MN	61572	38610	1.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

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	2	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS1	0.9	Solar Photovoltaic	SUN	PV
2018	2	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS2	0.9	Solar Photovoltaic	SUN	PV
2018	2	60830	Lyra Community Solar	IPP	Lyra Community Solar	MN	61182	RLCS3	0.9	Solar Photovoltaic	SUN	PV
2018	2	61156	NMRD Data Center, LLC	IPP	Facebook 2 Solar Energy Center	NM	61557	FB2	10.0	Solar Photovoltaic	SUN	PV
2018	2	17470	PUD 1 of Snohomish County	Electric Utility	Calligan Creek Hydroelectric Project	WA	60418	CC6MW	6.0	Conventional Hydroelectric	WAT	HY
2018	2	17470	PUD 1 of Snohomish County	Electric Utility	Hancock Creek Hydroelectric Project	WA	60517	HY1	6.0	Conventional Hydroelectric	WAT	HY
2018	2	60755	Phelps 158 Solar Farm, LLC	IPP	Phelps 158 Solar Farm	NC	61134	15800	5.0	Solar Photovoltaic	SUN	PV
2018	2	60947	Tesla Inc.	IPP	Greene County Meter #1	NY	60463	PV1	1.6	Solar Photovoltaic	SUN	PV
2018	2	61168	Veseli Solar I LLC	IPP	Veseli Community Solar Garden	MN	61570	40921	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	0000H	3.4	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE2	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE3	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE4	1.0	Solar Photovoltaic	SUN	PV
2018	2	61144	WasecaSun, LLC	IPP	WasecaSun	MN	61142	WASE5	1.0	Solar Photovoltaic	SUN	PV
2018	3	60571	AEP Onsite Partners	IPP	Sherburne Community Solar	MN	61672	PV1	5.0	Solar Photovoltaic	SUN	PV
2018	3	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS1	0.9	Solar Photovoltaic	SUN	PV
2018	3	60922	Belchertown Renewables, LLC	IPP	Belchertown Renewables Community Solar	MA	61295	02675	4.0	Solar Photovoltaic	SUN	PV
2018	3	61060	Cypress Creek Renewables	IPP	Gaston Solar I - SC	SC	61530	GEN1	10.2	Solar Photovoltaic	SUN	PV
2018	3	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS1	0.9	Solar Photovoltaic	SUN	PV
2018	3	60968	Delphinus Community Solar	IPP	Delphinus Community Solar	MN	61329	QDCS2	0.9	Solar Photovoltaic	SUN	PV
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN8	150.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	3	61228	Dundas Solar Holdings LLC	IPP	Dundas Solar Holdings LLC CSG	MN	61626	DU	5.0	Solar Photovoltaic	SUN	PV
2018	3	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 8, LLC	OR	61424	PV1	10.0	Solar Photovoltaic	SUN	PV
2018	3	60904	ETCAP NES CS MN 06 LLC	IPP	Armstrong Solar	MN	61138	0000A	3.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR1	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR2	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR3	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR4	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Cottage Grove CSG, LLC	MN	61483	CTGR5	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX1	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX2	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX3	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX4	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Fox CSG, LLC	MN	61484	FOX5	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	SunE Stolee CSG, LLC	MN	61485	STOL1	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	SunE Stolee CSG, LLC	MN	61485	STOL2	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	SunE Stolee CSG, LLC	MN	61485	STOL3	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY01	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY02	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY03	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY04	1.0	Solar Photovoltaic	SUN	PV
2018	3	58970	Ecoplexus, Inc	IPP	Wyoming 2 CSG, LLC	MN	61486	WY05	1.0	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Barefoot Bay Solar Energy Center	FL	61051	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Blue Cypress Solar Energy Center	FL	61029	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Hammock Solar	FL	61024	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	6452	Florida Power & Light Co	Electric Utility	Loggerhead Solar Energy Center	FL	61052	1	74.5	Solar Photovoltaic	SUN	PV
2018	3	60556	Fusion Solar Centre, L.L.C	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV
2018	3	59633	Great Bay Solar I LLC	IPP	Great Bay Solar 1	MD	59851	GBS01	57.0	Solar Photovoltaic	SUN	PV
2018	3	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN1	465.0	Natural Gas Fired Combined Cycle	NG	CS
2018	3	61323	PowerFin ASL 1, LLC	IPP	PowerFin Kingsbery	TX	61700	PFPKB	2.6	Solar Photovoltaic	SUN	PV
2018	3	61069	RE Gaskell West LLC	IPP	RE Gaskell West 1 LLC	CA	61445	PV1	20.0	Solar Photovoltaic	SUN	PV
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES1	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES2	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES3	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES4	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16181	Rochester Public Utilities	Electric Utility	Westside Energy Station	MN	60564	WES5	9.3	Natural Gas Internal Combustion Engine	NG	IC
2018	3	60520	SoCore Energy LLC	IPP	Carrizozo Solar	NM	61662	PV1	3.0	Solar Photovoltaic	SUN	PV
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT1	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT2	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT3	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT4	9.7	Natural Gas Internal Combustion Engine	NG	IC
2018	3	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS3	0.9	Solar Photovoltaic	SUN	PV
2018	3	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS4	0.9	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Intel - Ocotillo Campus Solar	AZ	60822	PV2	1.4	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Onondaga County- Jamesville	NY	60232	PV1	2.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Town of Rocky Hill	CT	61541	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	Town of Rocky Hill	CT	61541	PV2	1.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2018

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	3	60947	Tesla Inc.	IPP	Town of Rocky Hill	CT	61541	PV3	1.0	Solar Photovoltaic	SUN	PV
2018	3	60947	Tesla Inc.	IPP	US GSA - Sacramento	CA	60846	PV1	1.1	Solar Photovoltaic	SUN	PV
2018	3	60923	Theodore Drive Solar, LLC	IPP	Theodore Drive Community Solar	MA	61296	02529	1.5	Solar Photovoltaic	SUN	PV
2018	3	61397	Town of Otis	Commercial	Town of Otis Wind Energy Project	MA	61775	OT196	1.5	Onshore Wind Turbine	WND	WT
2018	3	61229	Waterville Solar Holdings LLC	IPP	Waterville Solar Holdings LLC	MN	61627	WA	5.0	Solar Photovoltaic	SUN	PV
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3B	0.4	Petroleum Liquids	DFO	IC
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	1	0.5	Petroleum Liquids	DFO	IC
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN9	150.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT11	216.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT12	216.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	ST10	321.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	0000C	5.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM2	1.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM3	1.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM4	1.0	Solar Photovoltaic	SUN	PV
2018	4	60905	ETCAP NES CS MN 03 LLC	IPP	Marmas Solar CSG	MN	61139	MARM5	1.0	Solar Photovoltaic	SUN	PV
2018	4	61124	Great Valley Solar Portfolio Holdings, LLC	IPP	Great Valley Solar Portfolio Holdings, LLC	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV
2018	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	61417	Lavio Solar, LLC	IPP	Lavio Solar	CA	61792	5002	1.0	Solar Photovoltaic	SUN	PV
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar CSG	MN	61382	LIND1	1.0	Solar Photovoltaic	SUN	PV
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar CSG	MN	61382	LIND2	1.0	Solar Photovoltaic	SUN	PV
2018	4	61017	Lindstrom CSG 1, LLC	IPP	Lindstrom Solar CSG	MN	61382	LIND3	1.0	Solar Photovoltaic	SUN	PV
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden CSG	MN	61495	42254	1.0	Solar Photovoltaic	SUN	PV
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden CSG	MN	61495	42255	1.0	Solar Photovoltaic	SUN	PV
2018	4	61102	Minnesota Solar CSG 8, LLC	IPP	Carver Gladden CSG	MN	61495	42256	1.0	Solar Photovoltaic	SUN	PV
2018	4	61156	NMRD Data Center, LLC	IPP	Facebook 3 Solar Energy Center	NM	61558	FB3	10.0	Solar Photovoltaic	SUN	PV
2018	4	61169	New Germany Solar I LLC	IPP	New Germany Community Solar Garden	MN	61571	39062	1.0	Solar Photovoltaic	SUN	PV
2018	4	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT1	310.3	Natural Gas Fired Combined Cycle	NG	CT
2018	4	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT
2018	4	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	61295	Pinal Central Energy Center, LLC	IPP	Pinal Central Energy Center	AZ	61678	BA1	10.0	Batteries	MWH	BA
2018	4	61295	Pinal Central Energy Center, LLC	IPP	Pinal Central Energy Center	AZ	61678	PCEC	20.0	Solar Photovoltaic	SUN	PV
2018	4	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Sonora	CA	54517	GEN3	6.0	Wood/Wood Waste Biomass	WDS	ST
2018	4	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT2	229.0	Natural Gas Fired Combined Cycle	NG	CT
2018	4	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA
2018	4	61418	Stage Gulch Solar, LLC	IPP	Stage Gulch Solar	CA	61791	5001	0.8	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL1	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL2	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL3	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL4	1.0	Solar Photovoltaic	SUN	PV
2018	4	61019	SunE St. Cloud 1, LLC	IPP	St. Cloud Solar CSG	MN	61384	STCL5	1.0	Solar Photovoltaic	SUN	PV
2018	4	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle	TN	3393	CTG1	311.9	Natural Gas Fired Combined Cycle	NG	CT
2018	4	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle	TN	3393	CTG2	311.9	Natural Gas Fired Combined Cycle	NG	CT
2018	4	18642	Tennessee Valley Authority	Electric Utility	Allen Combined Cycle	TN	3393	STG1	428.3	Natural Gas Fired Combined Cycle	NG	CA
2018	4	60059	ZGlobal Inc	IPP	Merced 1 PV	CA	61420	MRCD1	3.0	Solar Photovoltaic	SUN	PV
2018	4	61172	Zumbro Solar LLC	IPP	Zumbro Community Solar Garden	MN	61574	38674	1.0	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Imboden Solar Garden	CO	61753	PV1	1.5	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Imboden Solar Garden	CO	61753	PV2	1.5	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Ohio Northern University Solar Site	OH	60913	PV2	1.0	Solar Photovoltaic	SUN	PV
2018	5	60571	AEP Onsite Partners	IPP	Quincy II Solar Garden	CO	61752	PV1	1.5	Solar Photovoltaic	SUN	PV
2018	5	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 1	CA	61722	IRV01	1.0	Batteries	MWH	BA
2018	5	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 1	CA	61722	IRV1W	4.5	Batteries	MWH	BA
2018	5	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS2	0.9	Solar Photovoltaic	SUN	PV
2018	5	56267	Bayonne Energy Center LLC	IPP	Bayonne Energy Center	NJ	56964	GT10	59.5	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	56267	Bayonne Energy Center LLC	IPP	Bayonne Energy Center	NJ	56964	GT9	59.5	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	59777	Buckthorn Westex, LLC	IPP	Buckthorn Solar 1	TX	60044	BKTH1	202.0	Solar Photovoltaic	SUN	PV
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	233.6	Natural Gas Fired Combined Cycle	NG	CT

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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	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	233.6	Natural Gas Fired Combined Cycle	NG	CT
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	277.8	Natural Gas Fired Combined Cycle	NG	CA
2018	5	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG1	198.2	Natural Gas Fired Combined Cycle	NG	CT
2018	5	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG2	198.2	Natural Gas Fired Combined Cycle	NG	CT
2018	5	56204	CPV Valley, LLC	IPP	CPV Valley Energy Center	NY	56940	STG	308.7	Natural Gas Fired Combined Cycle	NG	CA
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT1	2.0	Petroleum Liquids	DFO	IC
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT2	2.0	Petroleum Liquids	DFO	IC
2018	5	14203	City of Osawatomie - (KS)	Electric Utility	Osawatomie Power Plant North Sub	KS	60751	CAT3	2.0	Petroleum Liquids	DFO	IC
2018	5	61442	Dignity - Siena Campus	IPP	Dignity - Siena Campus	NV	61825	PV1	1.4	Solar Photovoltaic	SUN	PV
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	1	147.5	Natural Gas Fired Combined Cycle	NG	CA
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	2	147.5	Natural Gas Fired Combined Cycle	NG	CA
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	3	217.5	Natural Gas Fired Combined Cycle	NG	CT
2018	5	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor Station NGCC	MA	60903	4	217.5	Natural Gas Fired Combined Cycle	NG	CT
2018	5	61303	Grimm CSG LLC	IPP	Grimm Community Solar	MN	61689	PV1	1.0	Solar Photovoltaic	SUN	PV
2018	5	61109	Huneke I CSG LLC	IPP	Huneke I CSG	MN	61505	HUNE1	1.0	Solar Photovoltaic	SUN	PV
2018	5	61110	Krause CSG LLC	IPP	Krause CSG	MN	61506	KRAUS	1.0	Solar Photovoltaic	SUN	PV
2018	5	56990	NJR Clean Energy Ventures Corporation	IPP	Raritan Solar - 53 Highway	NJ	61601	RARIT	8.4	Solar Photovoltaic	SUN	PV
2018	5	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	257.0	Natural Gas Fired Combined Cycle	NG	CT
2018	5	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA
2018	5	61114	School Sisters CSG LLC	IPP	School Sisters CSG	MN	61516	SCHOO	1.0	Solar Photovoltaic	SUN	PV
2018	5	60712	South Maui Renewable Resources LLC	IPP	Kihei Solar Farm	HI	61099	KIHEI	2.9	Solar Photovoltaic	SUN	PV
2018	5	60653	Stafford St Solar 2, LLC	IPP	Stafford St 2 Community Solar	MA	61017	STAF2	2.0	Solar Photovoltaic	SUN	PV
2018	5	61210	Stenner Creek Solar LLC	Commercial	Stenner Creek Solar	CA	61607	CPOLY	4.5	Solar Photovoltaic	SUN	PV
2018	5	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS1	0.9	Solar Photovoltaic	SUN	PV
2018	5	60822	Taurus Community Solar	IPP	Taurus Community Solar	MN	61174	ETCS2	0.9	Solar Photovoltaic	SUN	PV
2018	5	60947	Tesla Inc.	IPP	Time Warner Cable - Knowles	NY	60904	PV1	2.0	Solar Photovoltaic	SUN	PV
2018	5	61123	Upton County Solar 2 LLC	IPP	Castle Gap Solar	TX	60123	CGAP	180.0	Solar Photovoltaic	SUN	PV
2018	5	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT

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, 2018

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	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Brevig Mission	AK	60260	3	0.5	Petroleum Liquids	DFO	IC
2018	1	9617	JEA	Electric Utility	St Johns River Power Park	FL	207	1	626.0	Conventional Steam Coal	BIT	ST
2018	1	9617	JEA	Electric Utility	St Johns River Power Park	FL	207	2	626.0	Conventional Steam Coal	BIT	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Monticello	TX	6147	1	535.0	Conventional Steam Coal	SUB	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Monticello	TX	6147	2	535.0	Conventional Steam Coal	SUB	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Monticello	TX	6147	3	795.0	Conventional Steam Coal	SUB	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Sandow No 4	TX	6648	4	600.0	Conventional Steam Coal	LIG	ST
2018	1	55983	Luminant Generation Company LLC	IPP	Sandow No 5	TX	52071	5	600.0	Conventional Steam Coal	LIG	ST
2018	1	58247	National Centers for Animal Health	Commercial	NCAH Central Utility Plant	IA	58265	S-7A	1.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2018	1	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT4	0.3	Landfill Gas	LFG	IC
2018	2	55983	Luminant Generation Company LLC	IPP	Big Brown	TX	3497	1	606.0	Conventional Steam Coal	SUB	ST
2018	2	55983	Luminant Generation Company LLC	IPP	Big Brown	TX	3497	2	602.0	Conventional Steam Coal	SUB	ST
2018	2	15908	NRG California South LP	IPP	Mandalay	CA	345	03	130.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	2	15908	NRG California South LP	IPP	Mandalay	CA	345	1	215.0	Natural Gas Steam Turbine	NG	ST
2018	2	15908	NRG California South LP	IPP	Mandalay	CA	345	2	215.0	Natural Gas Steam Turbine	NG	ST
2018	2	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	1	50.0	Natural Gas Fired Combustion Turbine	NG	GT
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	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	1	1.0	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	2	1.0	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	3	1.0	Petroleum Liquids	DFO	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	4	1.0	Petroleum Liquids	DFO	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	5	1.2	Natural Gas Internal Combustion Engine	NG	IC
2018	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	6	1.2	Natural Gas Internal Combustion Engine	NG	IC
2018	3	12199	Montana-Dakota Utilities Co	Electric Utility	Portable Generator 1	ND	59196	IC1	2.0	Petroleum Liquids	DFO	IC
2018	3	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Sonora	CA	54517	GEN2	6.0	Wood/Wood Waste Biomass	WDS	ST
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	3A	0.3	Petroleum Liquids	DFO	IC
2018	4	221	Alaska Village Elec Coop, Inc	Electric Utility	Pilot Station	AK	57058	UNIT1	0.4	Petroleum Liquids	DFO	IC
2018	4	11460	City of Macon - (MO)	Electric Utility	Macon	MO	2141	3	4.6	Petroleum Liquids	DFO	IC
2018	4	20847	Wisconsin Electric Power Co	Electric Utility	Pleasant Prairie	WI	6170	1	594.0	Conventional Steam Coal	RC	ST
2018	4	20847	Wisconsin Electric Power Co	Electric Utility	Pleasant Prairie	WI	6170	2	594.0	Conventional Steam Coal	RC	ST
2018	5	57017	DOE National Renewable Energy Laboratory	Commercial	DOE Golden NWTC Turbine Side	CO	57693	ALSTO	3.0	Onshore Wind Turbine	WND	WT
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	3	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	4	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	7	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Great Falls (SC)	SC	3259	8	3.0	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	1	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	2	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	3	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	4	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	5	4.8	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	6	4.8	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	7	2.9	Conventional Hydroelectric	WAT	HY
2018	5	5416	Duke Energy Carolinas, LLC	Electric Utility	Rocky Creek	SC	3266	8	2.9	Conventional Hydroelectric	WAT	HY
2018	5	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	5	51.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	5	57400	Evergreen Community Power, LLC	Industrial	Evergreen Community Power	PA	58023	ECP	25.0	Wood/Wood Waste Biomass	WDS	ST
2018	5	9205	Illinois Electricial Gen Partn	IPP	Morris Genco LLC	IL	55774	MO4	1.0	Landfill Gas	LFG	IC
2018	5	9205	Illinois Electricial Gen Partn	IPP	Morris Genco LLC	IL	55774	MO5	1.0	Landfill Gas	LFG	IC
2018	5	15908	NRG California South LP	IPP	Etiwanda Generating Station	CA	331	3	320.0	Natural Gas Steam Turbine	NG	ST
2018	5	15908	NRG California South LP	IPP	Etiwanda Generating Station	CA	331	4	320.0	Natural Gas Steam Turbine	NG	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

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)
2018	6	61012	AES Distributed Energy	IPP	Anheuser-Busch Baldwinsville	NY	61575	BAL01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	Call Farms 1	NY	61470	CFM11	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	Call Farms 3	NY	61471	CFM31	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	Columbia University - Johnson Farms	NY	61576	JF01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	Columbia University - Minisink	NY	61578	MIN01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	Lichtenthal	NY	61469	LIC01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	St. Lawerence University - Sutton	NY	61579	SUT01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	61012	AES Distributed Energy	IPP	Time Warner Cable Enterprises - Martino	NY	61577	MRT01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS1	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	6	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS2	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	6	60824	Antares Community Solar	IPP	Antares Community Solar	MN	61176	FACS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	6	61369	Aspenall Energies Delaware	Electric Utility	Kimball Wind, LLC	NE	56106	KIM01	30.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	30.0
2018	6	1015	Austin Energy	Electric Utility	Kingsberry Energy Storage System	TX	61741	KBESS	1.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.5
2018	6	61410	Broad Street Fuel Cell, LLC	IPP	Trinity College Fuel Cell	CT	61786	MB-22	1.4	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	1.4
2018	6	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2018	6	18947	City of Tipton - (IA)	Electric Utility	Tipton	IA	8106	7	2.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG1	263.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	311.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG2	263.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	311.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	STG1	324.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	340.0
2018	6	60609	Clean Focus Renewables, Inc.	IPP	BHE Pueblo 2 Community Solar Array	CO	60801	PUEB2	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2018	6	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Smyrna	DE	61800	AMPSM	1.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.2
2018	6	61187	DG Minnesota CSG, LLC	IPP	Big Lake Project	MN	61817	BIGLA	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	6	5199	Devon Energy Production Co	Industrial	Beaver Creek Gas Plant	WY	55278	STG-1	0.9	All Other	WH	ST	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	6	61435	EGP Stillwater Solar PV II, LLC	IPP	EGP Stillwater Solar PV II, LLC	NV	61809	STWII	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	6	60844	Flat Top Wind I, LLC	IPP	Flat Top Wind I	TX	61212	FTWI	200.0	Onshore Wind Turbine	WND	WT	(OT) Other	200.0
2018	6	61304	Foreman's Hill CSG LLC	IPP	Foreman's Hill Community Solar	MN	61690	FOREM	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	6	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation California Training Facility	CA	61442	WTG1	1.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.8
2018	6	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation Salinas Valley State Prison	CA	61444	WTG1	1.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.8
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	60886	Gray Hawk Solar, LLC	IPP	Gray Hawk Solar	AZ	61272	GHS	55.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	55.0
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S1	8.4	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	8.4
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S2	8.4	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	8.4
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S3	8.4	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	8.4
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S4	8.4	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	8.4
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S5	8.4	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	8.4
2018	6	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S6	8.4	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	8.4
2018	6	61409	Heyer CSG LLC	IPP	Heyer CSG	MN	61793	HEYER	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	6	57389	IKEA Property Inc	Commercial	IKEA Oak Creek Rooftop PV System	WI	61816	PV1	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	6	49893	Invenergy Services LLC	IPP	Bishop Hill III	IL	61787	BHIII	119.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	119.0
2018	6	49893	Invenergy Services LLC	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	24.9
2018	6	61287	Johnson I CSG LLC	IPP	Johnson 1 Community Solar	MN	61686	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	6	61309	Johnson II CSG LLC	IPP	Johnson II Community Solar	MN	61695	PV1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	6	60713	Ku'ia Solar LLC	IPP	Ku'ia Solar	HI	61101	KUIA	2.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.9
2018	6	61346	Lisbon East	IPP	COU Solar I, LLC	NY	61720	LECOU	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2018	6	61345	Lisbon West	IPP	CJ Solar I, LLC	NY	61719	LWCJ1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	11161	Loma Linda University	Commercial	Loma Linda University Cogen	CA	10206	GEN5	1.0	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	1.0
2018	6	58822	MC Power Companies Inc	IPP	El Dorado Springs Solar Farm	MO	61566	EDSF1	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.5
2018	6	58822	MC Power Companies Inc	IPP	Farmington Solar Farm	MO	61450	FSF1	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2018	6	58822	MC Power Companies Inc	IPP	Independence II Solar Farm	MO	61588	1	4.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.1
2018	6	58822	MC Power Companies Inc	IPP	Independence II Solar Farm	MO	61588	2	4.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.4
2018	6	61383	MN Solar Community, LLC	IPP	Sherburne North Project	MN	61762	SHERB	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2018	6	61211	Montgomery County Solar	Commercial	Montgomery County Solar	MD	61608	1	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2018	6	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN1	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	6	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN2	490.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	529.0
2018	6	60471	Mt. Tom Solar, LLC	IPP	Mt. Tom Solar Project	MA	60906	BA1	3.1	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.1
2018	6	61461	Mustang Solar LLC	IPP	Mustang Solar	NC	61533	GEN1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	6	56990	NJR Clean Energy Ventures Corporation	IPP	New Road Solar, LLC	NJ	61599	NEWRD	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	6	56990	NJR Clean Energy Ventures Corporation	IPP	Old Bridge Solar Farm	NJ	61600	OLDBR	8.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	8.8
2018	6	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	259.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	310.2
2018	6	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	233.7
2018	6	60635	Northern Cardinal Solar LLC	IPP	Northern Cardinal Solar	NC	60992	NCARD	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	60685	Novel Energy Solutions	IPP	Novel - OYA of Mapleton	MN	61060	0000I	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2018	6	60685	Novel Energy Solutions	IPP	Novel OYA of Osakis	MN	61059	0000G	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	6	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W1	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	6	60996	OEE XXV LLC	Industrial	Valfilm Wind Project	OH	61356	W2	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2018	6	61278	OEE XXVI LLC	IPP	Whirlpool Corp-Greenville Wind Farm	OH	61660	WTG1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	6	61278	OEE XXVI LLC	IPP	Whirlpool Corp-Greenville Wind Farm	OH	61660	WTG2	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	6	61278	OEE XXVI LLC	IPP	Whirlpool Corp-Greenville Wind Farm	OH	61660	WTG3	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	6	61348	PCS Energy, LLC	Industrial	Aerolease	CA	61718	APLEX	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	328.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	365.5
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	702	196.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	244.0
2018	6	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	359.0
2018	6	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	11	214.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	6	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	12	214.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	235.0
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG1	226.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	244.8
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG2	226.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	244.8
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG3	226.3	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	244.8
2018	6	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	STG	417.6	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	460.0
2018	6	61298	Pine Gate Renewables	IPP	Sadiebrook Solar, LLC	SC	60719	SADIE	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	6	61298	Pine Gate Renewables	IPP	Soluga Farms IV	NC	59934	SFIV	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2018	6	61108	RJC I CSG LLC	IPP	RJC I CSG	MN	61504	RCJ1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	6	61285	RJC II CSG LLC	IPP	RJC II Community Solar Garden	MN	61670	RJCII	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	6	60443	Rattlesnake Power, LLC	IPP	Rattlesnake Power, LLC	TX	60743	WT1	160.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	160.0
2018	6	60748	Salisbury Solar, LLC	IPP	Salisbury Solar	NC	61128	12349	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	6	61284	Scandia CSG LLC	IPP	Scandia Community Solar Garden	MN	61669	SCAND	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2018	6	61443	Solar Star RPUWD, LLC	IPP	RPUWD Scheuer Well Solar PV Project	CA	61824	RPU2	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2018	6	60163	Soltage LLC	IPP	Kelly Solar, LLC	NC	61219	KELLY	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	6	61376	SunSelect 1	Industrial	SunSelect1	CA	61754	1	2.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	4.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	6	60947	Tesla Inc.	IPP	Broome County	NY	60507	NORTH	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	60947	Tesla Inc.	IPP	Broome County	NY	60507	SOUTH	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	6	60947	Tesla Inc.	IPP	Lancaster SCE ReMAT	CA	61081	PV1	3.0	Solar Photovoltaic	SUN	PV	(OT) Other	3.0
2018	6	61277	Vista Energy Storage, LLC	IPP	Vista Energy Storage System	CA	61661	VISTA	40.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	40.0
2018	6	61188	West Texas A&M University	Commercial	UL Advanced Wind Turbine Test Facility	TX	61589	UT-1	3.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	3.4
2018	7	61103	Adams Solar Center LLC	IPP	Adams Solar Center	OR	61496	ADAMS	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	7	60281	Altus Power America Management, LLC	IPP	Big George PV	MA	61429	12344	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	7	60831	Argo Navis Community Solar	IPP	Argo Navis Community Solar	MN	61183	UACS3	0.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.9
2018	7	60899	Bear Creek Solar Center, LLC	IPP	Bear Creek Solar Center	OR	61281	BCRSC	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	7	61256	Betcher CSG LLC	IPP	Betcher Community Solar Garden	MN	61671	BETCH	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	7	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
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC1	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC10	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC11	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC12	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC2	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC3	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC4	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC5	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC6	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC7	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC8	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	5063	City of Denton - (TX)	Electric Utility	Denton Energy Center	TX	61643	DEC9	18.8	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.8
2018	7	58519	Clean Energy Collective LLC	IPP	SCE&G Nimitz CSG	SC	61433	SCNM1	8.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	8.0
2018	7	58519	Clean Energy Collective LLC	IPP	SCE&G Springfield CSG	SC	61434	SCSP1	6.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	6.1
2018	7	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS1	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	7	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	7	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS3	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	7	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS4	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	7	60825	Corvus Community Solar	IPP	Corvus Community Solar	MN	61177	GCCS5	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2018	7	61060	Cypress Creek Renewables	IPP	Antanavica Solar	MA	61526	GEN1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2018	7	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Piqua Staunton	OH	61805	AMPPS	1.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.8
2018	7	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	7	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY2	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	7	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY3	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	7	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY4	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	7	58970	Ecoplexus, Inc	IPP	SunE Feely 1 CSG, LLC	MN	61478	FELY5	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2018	7	5701	El Paso Electric Co	Electric Utility	Holloman Solar Facility	NM	60301	HPV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	7	61104	Elbe Solar Center LLC	IPP	Elbe Solar Center	OR	61497	ELBE	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2018	7	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
2018	7	60428	Green City Recovery, LLC	IPP	Green City Recovery, LLC	KY	60703	2	1.0	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	1.0
2018	7	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN2	465.0	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	555.0
2018	7	61080	North Smithfield Solar Power 1, LLC	IPP	North Smithfield Solar Power 1	RI	61461	NSS01	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2018	7	61288	Perennial Wind, LLC	IPP	Perennial Windfarm	NE	61677	T-1	2.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.3
2018	7	61288	Perennial Wind, LLC	IPP	Perennial Windfarm	NE	61677	T-2	2.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.3
2018	7	61288	Perennial Wind, LLC	IPP	Perennial Windfarm	NE	61677	T-3	2.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.3
2018	7	17650	Southern Power Co	IPP	Cactus Flats Wind Energy Project	TX	61001	WT1	150.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	150.0
2018	7	60495	Sunpin Holdings, LLC	IPP	Colgreen North Shore Solar Farm	CA	60825	CNS1	74.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.8
2018	7	60947	Tesla Inc.	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	7	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH1	100.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	100.0
2018	8	61344	Advanced Microgrid Solutions	IPP	HEBT Irvine 2	CA	61723	IRV06	2.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.5
2018	8	60292	Advanced Solar Power Holdings, Inc	IPP	Two Mile Desert Project	NC	60510	PV1	16.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.2
2018	8	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
2018	8	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
2018	8	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
2018	8	60533	Carl Friedrich Gauss Solar LLC	IPP	Carl Friedrich Gauss Solar	NC	60882	GAUSS	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2018	8	61060	Cypress Creek Renewables	IPP	West Moore Solar II	TX	61625	GEN1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2018	8	58970	Ecoplexus, Inc	IPP	Folsom SP and CSP Sacramento	CA	61698	FOLSM	1.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.3
2018	8	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	8	60147	Enerparc Solar Development, LLC	IPP	Gastonia Solar Center	NC	60359	60916	4.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.3
2018	8	57484	Foundation CA Fund V Manager, LLC	IPP	Foundation NWNA	CA	58114	WTG3	1.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	1.9
2018	8	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1A	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	8	60399	GASNA 6P, LLC	IPP	San Joaquin Solar	CA	60678	SJ1B	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2018	8	60849	Green Beanworks C, LLC	IPP	Green Beanworks C PV	CA	61215	GBWXC	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2018	8	60850	Green Beanworks D, LLC	IPP	Green Beanworks D PV	CA	61216	GBWXD	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2018	8	11208	Los Angeles Department of Water & Power	Electric Utility	Beacon BESS 1	CA	61431	BCNB1	20.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	20.0
2018	8	61209	NC 102 Project LLC	IPP	NC 102 Project LLC	NC	61610	NC102	74.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.8
2018	8	16191	Robbins Lumber Inc	Industrial	Robbins Lumber	ME	50230	WEG	8.5	Wood/Wood Waste Biomass	WDS	ST	(V) Under construction, more than 50 percent complete	10.0
2018	8	60403	TRS Fuel Cell, LLC	Electric CHP	TRS Fuel Cell	CT	60683	MMH1	3.7	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	3.7
2018	8	60947	Tesla Inc.	IPP	Estrella Mountain PV	AZ	60230	PV1	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2018	8	59056	Tri Global Energy, LLC	IPP	Blue Cloud Renewable Energy Project, LLC	TX	60270	WT1	350.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	350.0
2018	9	60112	97WI 8ME, LLC	IPP	Midway Solar Farm III	CA	60315	MSF3	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	9	60876	Antelope Expansion 2, LLC	IPP	Antelope Expansion 2	CA	61264	ANTX2	105.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	105.0
2018	9	61326	Aquila Community Solar Gardens, LLC	IPP	Aquila Community Solar	MN	61704	AQUI	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	9	58261	Arkwright Summit Wind Farm LLC	IPP	Arkwright Summit Wind Farm LLC	NY	61673	WT	78.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	79.8
2018	9	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
2018	9	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
2018	9	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
2018	9	61329	Canopus Community Solar Garden, LLC	IPP	Canopus Community Solar	MN	61707	CANO	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	9	61260	Capricornus Community Solar Garden, LLC	IPP	Capricornus Community Solar Garden	MN	61651	CAPR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	9	61337	Cassiopeia Community Solar Garden, LLC	IPP	Cassiopeia Community Solar	MN	61711	CASS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	9	3265	Cleco Power LLC	Electric Utility	St. Mary Clean Energy Center	LA	60610	1	47.9	All Other	WH	OT	(V) Under construction, more than 50 percent complete	58.2
2018	9	56769	Consolidated Edison Development Inc.	IPP	Aurora County Wind	SD	61745	ACSD	20.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	9	56769	Consolidated Edison Development Inc.	IPP	Brule County Wind	SD	61746	BCSD	20.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	9	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	9	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	9	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC1ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	364.7
2018	9	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

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	9	60534	Halifax Solar LLC	IPP	Halifax Solar LLC	NC	60884	HALFX	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	9	60356	Hexagon Energy	IPP	Bay Branch Solar	NC	60601	BBSOL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	9	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN3	465.0	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	555.0
2018	9	61373	MERIT SI	IPP	Rotor Clip	NJ	61751	RCLIP	2.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.8
2018	9	12199	Montana-Dakota Utilities Co	Electric Utility	Thunder Spirit Wind, LLC	ND	58965	2	48.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	48.0
2018	9	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	122.0
2018	9	56545	Pattern Operators LP	IPP	Stillwater Wind, LLC	MT	61858	WT	80.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	80.0
2018	9	60910	Sun Farm V, LLC	IPP	Sun Farm V, LLC	NC	61287	SF5PV	4.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	9	61441	Sun Farm VI, LLC	IPP	Sun Farm VI, LLC	NC	61842	PV1	4.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	9	18454	Tampa Electric Co	Electric Utility	Balm Solar	FL	61654	PV1	74.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.4
2018	9	18454	Tampa Electric Co	Electric Utility	Payne Creek Solar	FL	61665	GEN1	70.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	70.3
2018	9	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
2018	10	61259	Altair Community Solar Garden, LLC	IPP	Altair Community Solar Garden	MN	61645	ALTA	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	10	61325	Aquarius Community Solar Gardens, LLC	IPP	Aquarius Community Solar	MN	61710	AQUA	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61230	CD Arevon USA, Inc.	IPP	Mount Signal Solar Farm 3	CA	61202	MTSG3	252.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	252.3
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 9	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	105.5
2018	10	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	105.5
2018	10	3037	City of Carlyle - (IL)	Electric Utility	Carlyle	IL	936	11	2.8	Petroleum Liquids	DFO	IC	(OT) Other	2.8
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC1	9.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.3
2018	10	18445	City of Tallahassee - (FL)	Electric Utility	Sub 12	FL	61080	IC2	9.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.3
2018	10	61338	Crux Community Solar Gardens, LLC	IPP	Crux Community Solar	MN	61712	CRUX	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	10	61060	Cypress Creek Renewables	IPP	Buckleberry Solar	NC	61693	GEN	52.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	52.1
2018	10	61060	Cypress Creek Renewables	IPP	Chisum	TX	61810	GEN1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2018	10	61339	Deneb Community Solar Garden, LLC	IPP	Deneb Community Solar	MN	61715	DENE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	10	57202	E&E Enterprises LLC	IPP	Allendorf	IA	56215	ET	1.8	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	2.0
2018	10	61420	ENGIE Storage Services NA LLC	Commercial	Pacific Union College BESS	CA	61795	12649	1.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	1.0
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	7019	Gay & Robinson Inc	Industrial	Gay Robinson	HI	50333	HYD3	6.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.5
2018	10	61334	Libra Community Solar Garden, LLC	IPP	Libra Community Solar	MN	61709	LIBR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41327	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41328	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41329	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	10	61101	Minnesota Solar CSG 1, LLC	IPP	Wright Cuddyer	MN	61494	41330	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	10	61353	Philadelphia Authority for Industrial Development	IPP	Navy Yard Peaker Station	PA	61737	GEN4	2.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2018	10	15466	Public Service Co of Colorado	Electric Utility	Rush Creek Wind	CO	60619	GEN1	576.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	600.0
2018	10	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	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
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	60476	Bluebell Solar, LLC	IPP	Bluebell Solar	TX	60789	UNIT1	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.0
2018	11	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
2018	11	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
2018	11	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
2018	11	60656	Chestnut Solar LLC	IPP	Chestnut Solar	NC	61011	PV1	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2018	11	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	7	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2018	11	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	8	3.3	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	3.3
2018	11	58840	Copenhagen Wind Farm, LLC	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	79.9
2018	11	61060	Cypress Creek Renewables	IPP	Brantley Solar	NC	60623	PV1	50.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.2
2018	11	61070	Foundation CA Fund IX Manager, LLC	IPP	Foundation Mann Packing	CA	61443	WTG1	1.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.8
2018	11	60878	Green Beanworks B, LLC	IPP	Green Beanworks B PV	CA	61339	GBWXB	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2018	11	9234	Indiana Municipal Power Agency	Electric Utility	Rensselaer Solar Site 2	IN	61799	SREN2	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2018	11	9234	Indiana Municipal Power Agency	Electric Utility	Richmond Solar Site 2	IN	61729	SRIC2	7.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	7.5
2018	11	58849	Mariah del Este LLC	IPP	Mariah East	TX	59006	MARN	152.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	152.5
2018	11	58489	OCI Solar Power	IPP	Ivory Solar	TX	61697	IVORY	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2018	11	15248	Portland General Electric Co	Electric Utility	Timothy Lake Powerhouse	OR	60868	1	1.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	1.2
2018	11	61414	Rattlesnake Creek Wind Project, LLC	IPP	Rattlesnake Creek Wind Project	NE	59292	RCWP	318.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	318.1
2018	11	61333	Sagitta Community Solar Garden, LLC	IPP	Sagitta Community Solar	MN	61708	SAGI	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2018	11	60217	San Bernardino Valley Mun. Water Dist.	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	1.0
2018	11	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	11	17633	Southern Indiana Gas & Elec Co	Electric Utility	Volkman Road Solar Array	IN	61334	VRSA2	1.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	1.0
2018	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind II	CA	61582	VYGR2	128.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	128.7
2018	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind III	CA	61583	VYGR3	43.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	43.2
2018	11	2770	Terra-Gen Operating Co LLC	IPP	Voyager Wind IV	CA	61584	VYGR4	21.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	21.6
2018	12	60248	Agilon Energy LLC	IPP	Victoria City Power LLC	TX	61241	VC-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	60248	Agilon Energy LLC	IPP	Victoria City Power LLC	TX	61241	VC-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2018	12	60776	Aksamit Resource Management	IPP	Milligan III Wind Farm	NE	61159	M3001	73.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	73.4
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	61327	Arcturus Community Solar Garden, LLC	IPP	Arcturus Community Solar	MN	61705	ARCT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	12	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2018	12	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	127.0
2018	12	61328	Auriga Community Solar Garden, LLC	IPP	Auriga Community Solar	MN	61706	AURI	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	12	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	WT1	166.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	166.0
2018	12	15399	Avangrid Renewables LLC	IPP	WyEast Solar	OR	61345	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2018	12	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	212.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	212.0
2018	12	60750	Bear Poplar Solar, LLC	IPP	Bear Poplar Solar	NC	61130	12344	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	61006	Bearkat TE Partnership LLC	IPP	Bearkat	TX	59972	BRKA2	103.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	103.4
2018	12	61230	CD Arevon USA, Inc.	IPP	CA Flats Solar 150, LLC	CA	60034	GEN01	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2018	12	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
2018	12	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	100.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	100.0
2018	12	58508	Carolina Solar Energy II LLC	IPP	Tides Lane Farm	NC	60429	PV1	3.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.7
2018	12	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

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	56769	Consolidated Edison Development Inc.	IPP	Burt County Wind	NE	61511	BCNE	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2018	12	56769	Consolidated Edison Development Inc.	IPP	Wistaria Ranch Solar	CA	61750	WICA	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	106.7
2018	12	61419	Constellation Solar MC, LLC	IPP	Gateway Solar	MD	61794	GTWYN	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	61419	Constellation Solar MC, LLC	IPP	Gateway Solar	MD	61794	GTWYS	2.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.6
2018	12	58695	Coronal Development Services	IPP	Latitude Solar Center	TN	61412	LATSC	15.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	15.0
2018	12	61060	Cypress Creek Renewables	IPP	Fox Creek Solar	NC	60624	PV1	50.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.2
2018	12	60370	DG AMP Solar, LLC	IPP	DG AMP Solar Brewster	OH	61818	AMPBR	1.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.9
2018	12	5109	DTE Electric Company	Electric Utility	Pine River Wind Park	MI	61106	1	161.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	161.3
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC2ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	364.7
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Hamilton Solar Power Plant	FL	61807	PV1	74.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.9
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	201.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	201.0
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	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	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	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	Round Hill PV1	NC	59998	RNDHL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58970	Ecoplexus, Inc	IPP	Underwood PV2	NC	60998	UNWD2	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. 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	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
2018	12	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	12	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	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
2018	12	61404	Edenton Solar	IPP	Edenton Solar	NC	61781	EDE	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2018	12	61413	Enel Green Power Diamond Vista Wind Project, LLC	IPP	Diamond Vista Wind Project, LLC	KS	61789	DV	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2018	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
2018	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
2018	12	56201	Engie North America	IPP	Live Oak Wind Project	TX	61782	WTGS	199.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	199.5
2018	12	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	4	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	100.0
2018	12	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	5	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	100.0
2018	12	59745	First Solar Asset Management	IPP	North Rosamond Solar LLC	CA	59879	GEN01	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2018	12	59745	First Solar Asset Management	IPP	Willow Spring Solar, LLC	CA	60324	GEN01	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2018	12	58959	Freeport LNG Development L.P	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	97.0
2018	12	58146	Gaelectric LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	240.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	240.0
2018	12	60747	Gamble Solar, LLC	IPP	Gamble Solar	NC	61127	12348	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	61214	Heartland Divide Wind Project, LLC	IPP	Heartland Divide Wind Project, LLC	IA	61609	1	103.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	103.5
2018	12	59462	Heelstone Energy Holdings, LLC	IPP	Innovative Solar 54	NC	59669	IS054	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2018	12	59462	Heelstone Energy Holdings, LLC	IPP	Innovative Solar 67	NC	59678	IS067	33.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	33.3
2018	12	61001	Hu Honua Bioenergy, LLC	IPP	Hu Honua Bioenergy Facility	HI	61364	HHB	32.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	36.0
2018	12	49893	Invenergy Services LLC	IPP	Upstream Wind Energy LLC	NE	61784	UWE	202.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	202.5
2018	12	61342	Leo Community Solar, LLC	IPP	Leo Community Solar	MN	61713	LEO	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2018	12	61133	Lorenzo Wind, LLC	IPP	Lorenzo Wind	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2018	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
2018	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
2018	12	61381	Meadow Lake Wind Farm VI LLC	IPP	Meadow Lake Wind Farm VI LLC	IN	61756	MWLVI	200.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.4
2018	12	61004	Midway Solar LLC	IPP	Midway Solar - TX	TX	61368	PV1	182.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	182.0
2018	12	61396	Midway Wind, LLC	IPP	Midway Wind, LLC	TX	61776	MIDWY	162.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	162.9
2018	12	61458	Minco Wind IV, LLC	IPP	Minco Wind IV, LLC	OK	61836	MIV	130.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	130.0
2018	12	61459	Minco Wind V, LLC	IPP	Minco Wind V, LLC	OK	61837	MV	220.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	220.0
2018	12	61292	NC State University, Energy Systems	Commercial	NCSU CCUP Cogeneration Plant	NC	61675	CTG1	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	5.6
2018	12	61292	NC State University, Energy Systems	Commercial	NCSU CCUP Cogeneration Plant	NC	61675	STG	1.0	Natural Gas Steam Turbine	NG	ST	(V) Under construction, more than 50 percent complete	1.0
2018	12	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	12	61401	North 301 Solar	IPP	North 301 Solar	NC	61778	N301	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2018	12	58477	O2energies, Inc.	IPP	Five Forks Solar	NC	59951	5FRK	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	12	58764	Origis Energy USA, Inc	IPP	OR Solar 2, LLC	OR	61200	ORSR2	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2018	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
2018	12	60975	SR Innovation, LLC	IPP	SR Innovation - NIKE PV	TN	61332	NIKE2	1.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.7
2018	12	60334	SR Millington, LLC	IPP	Millington Solar Farm	TN	60560	MILL	53.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	53.0
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	17633	Southern Indiana Gas & Elec Co	Electric Utility	Oak Hill Solar Array	IN	61333	OHSA1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2018	12	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	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
2018	12	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2018	12	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	12	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.5
2018	12	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Icarus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2018	12	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	12	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2018	12	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	58658	Sunlight Partners	IPP	Wilfork Solar	NC	60162	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2018	12	61005	Sweetwater Solar LLC	IPP	Sweetwater Solar	WY	61369	PV1	92.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	92.0
2018	12	18454	Tampa Electric Co	Electric Utility	Bonnie Mine Solar	FL	61655	PV1	35.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	35.0
2018	12	18454	Tampa Electric Co	Electric Utility	Grange Hall Solar	FL	61656	PV1	61.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	61.0
2018	12	18454	Tampa Electric Co	Electric Utility	Lithia Solar	FL	61663	GEN1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2018	12	18454	Tampa Electric Co	Electric Utility	Mountain View Solar (FL)	FL	61664	GEN1	55.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	55.0
2018	12	18454	Tampa Electric Co	Electric Utility	Peace Creek Solar	FL	61666	GEN	56.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	56.6
2018	12	61215	Techren Solar LLC	IPP	Techren	NV	61611	TECH1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG1	276.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	370.0

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	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG2	276.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	STG1	374.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	394.0
2018	12	61436	Titan Solar, LLC	IPP	Titan Solar	CO	61811	PCEC	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	663.9
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Hollyfield	VA	61023	1	6.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	17.0
2018	12	60847	West Fork Wind, LLC	IPP	West Fork Wind	IN	61214	WT1	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0
2018	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
2018	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
2018	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	12	61291	Wildcat Ranch Wind Project, LLC	IPP	Wildcat Ranch Wind Project	TX	61674	WT	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0
2018	12	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
2018	12	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
2018	12	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2018	12	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2018	12	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2018	12	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2018	12	60875	Wolf Run Energy LLC	IPP	Wolf Run Energy	PA	61263	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2018	12	61366	Woods Hill Solar, LLC	IPP	Woods Hill Solar	CT	61736	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2019	1	60248	Agilon Energy LLC	IPP	Victoria Port Power LLC	TX	61242	VP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2019	1	60248	Agilon Energy LLC	IPP	Victoria Port Power LLC	TX	61242	VP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2019	1	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2019	1	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	161.9
2019	1	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
2019	1	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
2019	1	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
2019	1	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
2019	1	58519	Clean Energy Collective LLC	IPP	SCE&G Curie CSG	SC	61432	SCCU1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2019	1	5701	El Paso Electric Co	Electric Utility	New Mexico Community Solar Facility	NM	61783	NMCSF	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	1	6452	Florida Power & Light Co	Electric Utility	Interstate Solar Energy Center	FL	61768	1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.5
2019	1	6452	Florida Power & Light Co	Electric Utility	Miami Dade Solar Energy Center	FL	61766	1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.5
2019	1	6452	Florida Power & Light Co	Electric Utility	Pioneer Trail Solar Energy Center	FL	61767	1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.5
2019	1	6452	Florida Power & Light Co	Electric Utility	Sunshine Gateway Solar Energy Center	FL	61763	1	74.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.5
2019	1	61365	Hilltopper Wind Project, LLC	IPP	Hilltopper Wind Project	IL	61735	WT1	185.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	185.0
2019	1	61289	Kaus Community Solar Garden, LLC	IPP	Kaus Community Solar	MN	61716	KAUS	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
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	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
2019	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2019	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2019	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2019	1	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
2019	2	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA01	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2019	2	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA02	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2019	2	61344	Advanced Microgrid Solutions	IPP	HEBT WLA 1	CA	61721	WLA1C	11.8	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	11.8
2019	2	61467	Central CA Fuel Cell 2, LLC	IPP	Tulare WWTP BioMat Fuel Cell	CA	61846	MM27	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2019	2	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
2019	2	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2019	2	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	50.0
2019	3	61060	Cypress Creek Renewables	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2019	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectric	AL	61749	GEN1	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2019	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectric	AL	61749	GEN2	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2019	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectric	AL	61749	GEN3	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2019	3	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
2019	3	60846	GRP Madison Renewable Energy Facility, LLC	IPP	GRP Madison Renewable Energy Facility	GA	61213	GEN	65.0	Wood/Wood Waste Biomass	WDS	ST	(P) Planned for installation, but regulatory approvals not initiated	65.0
2019	3	61456	Hope Farm Solar, LLC	IPP	Hope Farm Solar, LLC	RI	61840	HOPE	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2019	3	9417	Interstate Power and Light Co	Electric Utility	English Farms	IA	61565	1	169.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	169.9
2019	3	9417	Interstate Power and Light Co	Electric Utility	Upland Prairie	IA	61564	1	299.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	299.3
2019	3	59898	Kawailoa Solar, LLC	IPP	Kawailoa Solar	HI	60125	KAWS	49.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.0
2019	3	60987	Lanikuhana Solar LLC	IPP	Lanikuhana Solar LLC	HI	58281	1	14.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	14.7
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	18	13.5	Petroleum Liquids	DFO	GT	(V) Under construction, more than 50 percent complete	15.4
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	19	0.8	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.8
2019	3	56545	Pattern Operators LP	IPP	Grady Wind Energy Center, LLC	NM	60317	1	220.8	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	220.8
2019	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
2019	3	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
2019	3	59764	Waipio PV, LLC	IPP	Waipio Solar	HI	60024	WPO	45.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	45.9
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	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
2019	4	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2019	4	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH2	3.7	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	3.7
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	A.J. Mihm Generating Station	MI	61391	M3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K4	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K5	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K6	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	61029	Upper Michigan Energy Resources Company	Electric Utility	F.D. Kuester Generating Station	MI	61392	K7	18.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2019	4	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
2019	5	60672	Birdsboro Power LLC	IPP	Birdsboro Power	PA	61035	GEN1	476.0	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	525.0
2019	5	61060	Cypress Creek Renewables	IPP	West Moore Solar	TX	61624	GEN1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2019	5	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH3	3.7	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	3.7
2019	5	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT1	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2

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	5	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT2	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2019	5	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT3	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2019	5	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT4	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2019	5	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT5	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2019	5	54888	NRG Texas Power LLC	IPP	Bacliff	TX	60264	BCGT6	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2019	5	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
2019	5	19564	University of Notre Dame	Commercial	University of Notre Dame	IN	50366	GT1	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	5.4
2019	5	19564	University of Notre Dame	Commercial	University of Notre Dame	IN	50366	GT2	5.6	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	5.4
2019	6	60877	Antelope DSR 3, LLC	IPP	Antelope DSR 3	CA	61265	ADSR3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	6	60395	California Ethanol Power, LLC	Industrial	CE&P Imperial Valley 1	CA	60670	1	50.0	All Other	OTH	CC	(T) Regulatory approvals received. Not under construction	50.0
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	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
2019	6	59550	Croda Inc.	Industrial	Croda Atlas Point CHP	DE	59783	91199	2.0	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	8.9
2019	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	8.9
2019	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	8.9
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	250.0
2019	6	11241	Entergy Louisiana LLC	Electric Utility	St. Charles Power Station (LA)	LA	60926	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	500.0
2019	6	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
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	61054	Fluvanna Wind Energy 2 LLC	IPP	Gopher Creek Wind Farm	TX	61417	GCWF	158.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	158.0
2019	6	61037	Foard City Wind, LLC	IPP	Foard City Wind	TX	61402	FOARD	350.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	350.0
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	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
2019	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
2019	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
2019	6	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
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	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
2019	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	6	60874	Niles Valley Energy LLC	IPP	Niles Valley Energy LLC	PA	61286	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	501	375.7	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	375.7
2019	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	502	200.6	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	200.6
2019	6	17650	Southern Power Co	IPP	Mankato Energy Center	MN	56104	CTG1	200.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	210.0
2019	6	61215	Techren Solar LLC	IPP	Techren	NV	61611	TECH2	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
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	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
2019	7	61466	Bakersfield Fuel Cell 1, LLC	IPP	Bolthouse Farms Fuel Cell	CA	61845	MM28	2.5	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	7	61466	Bakersfield Fuel Cell 1, LLC	IPP	Bolthouse Farms Fuel Cell	CA	61845	MM29	2.5	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	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
2019	7	61276	West Liberty Renewables LLC	IPP	West Liberty Wind Farm	IA	61057	T1	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	7	61276	West Liberty Renewables LLC	IPP	West Liberty Wind Farm	IA	61057	T2	2.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	2.5
2019	8	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
2019	8	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
2019	8	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	25.0
2019	8	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.7
2019	8	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	360.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	360.0
2019	9	60328	Big Level Wind LLC	IPP	Big Level Wind	PA	60551	BLW01	90.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	90.0
2019	9	60719	Broadlands Wind Farm LLC	IPP	Broadlands Wind Farm	IL	61161	GEN01	300.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	300.0
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	61302	Depot Solar Center, LLC	IPP	Depot Solar Center, LLC	VA	61691	DEPOT	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2019	9	61374	Foxtail Wind, LLC	Electric Utility	Foxtail Wind, LLC	ND	61747	1	150.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	150.0
2019	9	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
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	9	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN12	5.8	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	5.8
2019	9	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN13	10.0	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	10.0
2019	9	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
2019	9	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
2019	10	60797	68SF 8me LLC	IPP	Eland 1 Solar Farm	CA	61168	68SF8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	10	61465	Brush Solar Center	IPP	Brush Solar Center	OR	61844	BRUSH	2.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.8
2019	10	60688	FGE Goodnight, 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
2019	10	58850	Mariah del Sur LLC	IPP	Mariah South	TX	59007	MAR S	210.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	210.4
2019	10	60720	Martinsdale Wind Farm LLC	IPP	Martinsdale Wind Farm	MT	61108	MTD	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2019	10	61473	Morgan Solar Center	IPP	Morgan Solar Center	OR	61855	MORGN	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2019	10	14232	Otter Tail Power Co	Electric Utility	Merricourt Wind Project	ND	57048	1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG4	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG5	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG6	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG7	3.5	Other Waste Biomass	OBG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.5
2019	10	61330	Turtle Creek Wind Farm LLC	IPP	Turtle Creek Wind Farm LLC	IA	61638	TC1	200.1	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.1
2019	10	61472	Vale Solar Center	IPP	Vale Solar Center	OR	61856	VALE	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2019	10	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
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

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	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	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
2019	11	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
2019	11	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	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
2019	12	61118	Ameresco, Inc - Candlewood	IPP	Candlewood Solar	CT	61517	CANDL	25.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	25.0
2019	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	15399	Avangrid Renewables LLC	IPP	Coyote Ridge	SD	61047	WT1	98.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	98.0
2019	12	15399	Avangrid Renewables LLC	IPP	Karankawa Wind LLC	TX	61343	WT1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	15399	Avangrid Renewables LLC	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
2019	12	15399	Avangrid Renewables LLC	IPP	Montague Wind Power Facility LLC	OR	58099	1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	15399	Avangrid Renewables LLC	IPP	Otter Creek Wind Farm LLC	IL	61344	WT1	129.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	129.0
2019	12	15399	Avangrid Renewables LLC	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	61474	Baker City Solar	IPP	Baker City Solar	OR	61854	BAKER	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2019	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2019	12	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	MN	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2019	12	60714	Burke Wind LLC	IPP	Burke Wind, LLC	ND	61100	GE23	199.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	199.4
2019	12	59365	Capital Power Corporation	IPP	Garrison Butte Wind, LLC	ND	60066	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	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	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
2019	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
2019	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
2019	12	61416	Cattle Ridge Wind Holdings, 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	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2019	12	58695	Coronal Development Services	IPP	Biggs Ford Solar Center	MD	61321	BFSC	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2019	12	60290	Crocker Wind Farm, LLC	IPP	Crocker Wind Farm	SD	60505	CRCKR	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	59464	Current Energy Group	IPP	Hickory	NC	59829	5515	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Vici Wind Farm	OK	59062	VICI	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Baron Winds Farm	NY	60596	1	272.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	272.0
2019	12	58672	Everpower Wind Holdings Inc	IPP	Buckeye Wind Farm	OH	58776	1	99.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	99.0
2019	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
2019	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
2019	12	58672	Everpower Wind Holdings Inc	IPP	Mason Dixon Wind Farm	PA	60212	1	79.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	79.9
2019	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
2019	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
2019	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
2019	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
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	59745	First Solar Asset Management	IPP	Twiggs Solar	GA	61696	TWIGG	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	56615	First Solar Project Development	IPP	Sunshine Valley Solar	NV	59826	GEN01	102.0	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	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
2019	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	40.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG1	97.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	102.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG2	97.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	102.0
2019	12	7140	Georgia Power Co	Electric Utility	Robins Air Force Base Solar	GA	61648	1	139.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	139.0
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT1	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT2	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT3	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT4	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2019	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT5	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
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	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60928	Holdridge Energy LLC	IPP	Holdridge Energy	PA	61305	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	49893	Invenergy Services LLC	IPP	Camilla Solar Energy Project	GA	61785	CAMSR	160.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	160.0
2019	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
2019	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
2019	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
2019	12	61421	LeGore Bridge Solar Center, LLC	IPP	LeGore Bridge Solar Center	MD	61796	LGBSC	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2019	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
2019	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
2019	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
2019	12	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
2019	12	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
2019	12	61422	Mason Dixon Solar Center, LLC	IPP	Mason Dixon Solar Center	MD	61797	PV	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
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	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60929	Mineral Point Energy LLC	IPP	Mineral Point Energy	PA	61300	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60952	Mt. Jackson Solar LLC	IPP	Mt. Jackson Solar	VA	61318	SOLAR	15.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.7
2019	12	60442	New Colony Wind LLC	IPP	New Colony Wind Project	MT	60718	WT1	23.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	23.1
2019	12	56622	NextEra Energy Resources	IPP	Shaw Creek Solar, LLC	SC	61790	SHAWC	74.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	74.9
2019	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2019	12	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
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	56545	Pattern Operators LP	IPP	Crazy Mountain Wind LLC	MT	61859	WT	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
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	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV2	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV3	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
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	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60930	Red Glen Energy LLC	IPP	Red Glen Energy	PA	61306	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60897	Salinas Valley Solid Waste Authority	IPP	Crazy Horse Solar Project	CA	61285	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2019	12	16609	San Diego Gas & Electric Co	Electric Utility	Top Gun Energy Storage	CA	61366	TGES	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2019	12	61455	Scituate RI Solar, LLC	IPP	Scituate RI Solar, LLC	RI	61841	SCITU	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2019	12	61321	Seabrook Solar, LLC	IPP	Seabrook Solar	SC	61701	GEN1	70.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	72.5
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	17718	Southwestern Public Service Co	Electric Utility	Gaines County	TX	60697	GC-1	186.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	225.0
2019	12	60523	Springfield Project Development LLC	IPP	Homestead Wind LLC	IL	60871	HOMES	50.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60931	Stourbridge Energy LLC	IPP	Stourbridge Energy	PA	61301	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	18454	Tampa Electric Co	Electric Utility	Wimauma Solar	FL	61667	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2019	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
2019	12	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
2019	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
2019	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
2019	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
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	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
2019	12	60694	Washburn Wind Energy LLC	IPP	Washburn Wind Farm	IA	61071	WASH	70.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	70.0
2019	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
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN1	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN2	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN3	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2019	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN5	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2020	1	60278	64KT 8me LLC	IPP	Springbok 3 Solar Farm	CA	60491	SB3SF	90.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	90.0
2020	1	55918	Acciona Wind Energy USA LLC	IPP	Palmas Wind, LLC	TX	61773	PW	142.6	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	144.9
2020	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
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	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	1	61060	Cypress Creek Renewables	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	1	13478	Entergy New Orleans, LLC	Electric Utility	New Orleans Power	LA	60928	1	250.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	250.0
2020	1	56615	First Solar Project Development	IPP	White Wing Solar	AZ	60572	GEN01	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2020	1	61429	Harvest Wind Energy, LLC	IPP	Harvest Wind Energy Project	IN	61823	1	600.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	600.0
2020	1	61430	Summit Lake Wind, LLC	IPP	Summit Lake Wind Energy Project	MI	61812	1	120.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	120.0
2020	1	18454	Tampa Electric Co	Electric Utility	Alafia Solar	FL	61653	PV1	50.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2020	1	59056	Tri Global Energy, LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	288.0
2020	1	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
2020	1	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
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	232.9
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	232.9
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. 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	(U) Under construction, less than or equal to 50 percent complete	260.1
2020	2	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	3	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1A	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	3	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1B	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	3	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1S	192.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	3	60350	CPV Fairview, LLC	IPP	CPV Fairview Energy Center	PA	60589	GEN1	1,100.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	3	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
2020	3	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	345.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	390.0
2020	3	61251	LA3 West Baton Rouge, L.L.C.	IPP	LA3 West Baton Rouge Solar Facility	LA	61646	LA3WB	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2020	3	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	GEN1	59.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	70.5
2020	3	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	STG1	20.2	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	22.0
2020	3	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	120.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	120.0
2020	4	60796	91MC 8me LLC	IPP	Peak Valley Solar Farm	CA	61167	91MC8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2020	4	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1A	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	4	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1B	226.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	4	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1S	192.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	231.0
2020	4	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
2020	4	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
2020	4	58695	Coronal Development Services	IPP	Casper Solar Center	MD	61320	CSPSC	36.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	36.7
2020	4	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
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	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0

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)
2020	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	41.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	41.0
2020	6	60799	33UI 8me LLC	IPP	Long Ridge Solar Farm	UT	61170	33UI8	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2020	6	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
2020	6	60798	69SV 8me LLC	IPP	Eland 2 Solar Farm	CA	61169	69SV8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
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	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
2020	6	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
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	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCA1	205.4	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	207.4
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCT1	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2020	6	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	500.0
2020	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
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	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
2020	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
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	60986	Imperial Valley Solar 2, LLC	IPP	Mount Signal Solar 2	CA	61353	IVS2	153.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	153.5
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	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	55983	Luminant Generation 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	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	55983	Luminant Generation 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	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
2020	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
2020	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
2020	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
2020	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
2020	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
2020	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
2020	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
2020	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
2020	6	60958	Ohio River Partners Shareholder LLC	IPP	Hannibal Port Power Project	OH	61322	HPPP1	485.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	485.0
2020	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
2020	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
2020	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
2020	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
2020	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
2020	6	18414	TES Filer City Station LP	Electric CHP	TES Filer City Station	MI	50835	GEN2	228.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	253.0
2020	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
2020	7	59137	Palmer Renewable Energy	IPP	Palmer Renewable Energy	MA	59336	PRE	42.0	Wood/Wood Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	42.0
2020	8	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	75.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	75.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	75.0
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	7277	Calpine Corporation	IPP	Wild Horse Power Plant	CA	57181	1	40.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	48.0
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	GT1	275.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	275.0
2020	9	61215	Techren Solar LLC	IPP	Techren	NV	61611	TECH3	25.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	25.0
2020	9	61215	Techren Solar LLC	IPP	Techren	NV	61611	TECH4	25.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	25.0
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	58901	Hydro Green Energy	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(OT) Other	5.3
2020	10	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
2020	10	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
2020	11	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
2020	11	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
2020	11	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
2020	11	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
2020	11	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
2020	11	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
2020	11	61331	Popular Camp Wind Farm LLC	IPP	Poplar Camp Wind Farm	VA	61111	PC1	72.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	72.0
2020	12	15399	Avangrid Renewables LLC	IPP	Roaring Brook, LLC	NY	61041	WT1	78.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	78.0
2020	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
2020	12	61257	Blazing Star 2 LLC	IPP	Blazing Star 2 Wind Farm	MN	61650	BLZS2	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2020	12	61030	Bluegrove Wind, LLC	IPP	Bluegrove Wind	TX	61400	BLUGR	100.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	100.0
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	61031	Byers Wind, LLC	IPP	Byers Wind	TX	61401	BYERS	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
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	59365	Capital Power Corporation	IPP	Tisch Mills Wind	WI	60674	TISCH	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	181.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	181.0
2020	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
2020	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
2020	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
2020	12	58672	Everpower Wind Holdings Inc	IPP	Coyote Crest Wind Farm	WA	58778	1	127.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	127.5
2020	12	56615	First Solar Project Development	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2020	12	56615	First Solar Project Development	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	56615	First Solar Project Development	IPP	Snow Mountain Solar, LLC	NV	59935	GEN01	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2020	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

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	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
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	8	218.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	230.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	9	110.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	116.0
2020	12	61010	Ord Mountain Solar, LLC	IPP	Ord Mountain Solar	CA	61372	ORDMT	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2020	12	56545	Pattern Operators LP	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
2020	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	687.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	687.0
2020	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 2 LLC	CA	61446	PV2	45.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	45.0
2020	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 3 LLC	CA	61447	PV3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 4 LLC	CA	61448	PV4	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 5 LLC	CA	61449	PV5	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV4	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2020	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV5	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2020	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
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	61033	Boswell Wind Project I, LLC	IPP	Boswell Wind I	WY	61393	BOSW1	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	61034	Boswell Wind Project II, LLC	IPP	Boswell Wind II	WY	61394	BOSW2	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	61035	Boswell Wind Project III, LLC	IPP	Boswell Wind III	WY	61395	BOSW3	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	61036	Boswell Wind Project IV, LLC	IPP	Boswell Wind IV	WY	61396	BOSW4	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	1	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
2021	1	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
2021	1	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
2021	1	58702	Fluence	IPP	AES ES ALAMITOS, LLC	CA	61204	ALMTS	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2021	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,105.0
2021	1	18454	Tampa Electric Co	Electric Utility	Lake Hancock Solar	FL	61657	PV1	49.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	1	19876	Virginia Electric & Power Co	Electric Utility	Coastal Virginia Offshore Wind (CVOW)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	12.0
2021	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
2021	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
2021	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
2021	3	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	450.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	580.0
2021	3	16609	San Diego Gas & Electric Co	Electric Utility	Fallbrook Energy Storage	CA	61365	FBES	40.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	40.0
2021	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
2021	4	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
2021	4	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
2021	4	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
2021	4	14232	Otter Tail Power Co	Electric Utility	Astoria Station	SD	61144	1	260.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	260.0
2021	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
2021	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
2021	5	14605	City of Peabody - (MA)	Electric Utility	Waters River	MA	1678	3	55.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.0
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
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
2021	6	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
2021	6	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT1	386.8	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	386.8
2021	6	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT2	386.8	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	386.8
2021	6	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	ST1	397.8	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	397.8
2021	6	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	338.9	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	406.0
2021	6	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC2	249.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	297.5
2021	7	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
2021	7	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
2021	7	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
2021	7	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2021	7	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2021	7	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2021	7	56615	First Solar Project Development	IPP	Sun Streams, LLC	AZ	60827	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2021	9	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
2021	9	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
2021	12	61477	325MK 8me LLC	IPP	Eagle Shadow Mountain Solar Farm	NV	61852	ESMSF	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2021	12	60711	Battle Mountain SP, LLC	IPP	Battle Mountain Solar Project	NV	61098	BMSP	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2021	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	PVGEN	55.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	55.0
2021	12	59380	Enel Green Power NA, Inc.	IPP	Pomerado Energy Storage, LLC	CA	61390	PMRDO	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2021	12	60405	FDS Coke Plant, LLC	Electric CHP	FDS Co-Generation Facility	OH	60693	1	110.0	Other Gases	OG	ST	(P) Planned for installation, but regulatory approvals not initiated	135.0
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2021	12	60221	North Slope LLC	IPP	North Slope, LLC	NY	60420	NSPV	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2021	12	61301	Plum Creek Wind Farm LLC	IPP	Plum Creek	MN	61687	PLMCK	400.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	400.0
2021	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
2022	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
2022	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
2022	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
2022	1	60835	NTE Carolinas II, LLC	IPP	Reidsville Energy Center	NC	61240	REC	259.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	310.2
2022	1	60835	NTE Carolinas II, LLC	IPP	Reidsville Energy Center	NC	61240	REC2	227.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	233.7
2022	1	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
2022	1	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
2022	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
2022	6	61386	C4GT, LLC	IPP	C4GT	VA	61760	C4GT	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,060.0
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	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
2022	12	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

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)
2022	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	(OT) Other	40.0
2022	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	(OT) Other	40.0
2022	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	CPEC1	680.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	680.0
2022	12	59380	Enel Green Power NA, Inc.	IPP	Cascade Energy Storage, LLC	CA	61801	10002	25.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	25.0
2022	12	59380	Enel Green Power NA, Inc.	IPP	Sierra Energy Storage, LLC	CA	61803	10003	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2022	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
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS3	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2023	12	59380	Enel Green Power NA, Inc.	IPP	Kingston Energy Storage, LLC	CA	61802	10001	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2023	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
2024	1	2719	CalWind Resources Inc	IPP	Tehachapi Wind Resource II	CA	54909	PLAN	15.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.5
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS1	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS2	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS4	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS5	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2024	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
2025	1	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
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	2	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	2	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	3	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2025	2	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
2025	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS6	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2025	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS7	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2025	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS8	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
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
2018	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	1	190.0	Conventional Steam Coal	SUB	ST
2018	6	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	2	195.0	Conventional Steam Coal	SUB	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	2	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	3	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	4	577.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D1	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D2	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D3	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	J M Stuart	OH	2850	D4	2.2	Petroleum Liquids	DFO	IC
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	2	600.0	Conventional Steam Coal	BIT	ST
2018	6	4922	Dayton Power & Light Co	Electric Utility	Killen Station	OH	6031	GT1	18.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Connersville	IN	1002	1	37.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Connersville	IN	1002	2	37.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	1	14.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	2	12.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	3	12.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	5	14.0	Petroleum Liquids	DFO	GT
2018	6	15470	Duke Energy Indiana, LLC	Electric Utility	Miami Wabash	IN	1006	6	12.0	Petroleum Liquids	DFO	GT
2018	6	12685	Entergy Mississippi Inc	Electric Utility	Baxter Wilson	MS	2050	2	530.7	Natural Gas Steam Turbine	NG	ST
2018	6	12685	Entergy Mississippi Inc	Electric Utility	Rex Brown	MS	2053	3	29.3	Natural Gas Steam Turbine	NG	ST
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	1	11.0	Natural Gas Steam Turbine	NG	ST
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	3	17.9	Natural Gas Steam Turbine	NG	ST
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H10	1.3	Natural Gas Internal Combustion Engine	NG	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H11	1.3	Natural Gas Internal Combustion Engine	NG	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H2	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H4	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H5	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H6	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H7	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H8	1.8	Petroleum Liquids	DFO	IC
2018	6	7651	Greenwood Utilities Comm	Electric Utility	Henderson	MS	2062	H9	1.3	Natural Gas Internal Combustion Engine	NG	IC
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	6	9417	Interstate Power and Light Co	Electric Utility	Milton L Kapp	IA	1048	2	112.5	Natural Gas Steam Turbine	NG	ST
2018	6	9417	Interstate Power and Light Co	Electric Utility	Red Cedar	IA	7595	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	6	11217	Los Angeles County Sanitation	IPP	Commerce Refuse To Energy	CA	10090	GEN1	10.0	Municipal Solid Waste	MSW	ST
2018	6	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	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG2		Natural Gas Fired Combined Cycle	NG	CT
2018	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG3		Natural Gas Fired Combined Cycle	NG	CT
2018	6	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	STG1		Natural Gas Fired Combined Cycle	NG	CA
2018	6	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	7	160.0	Conventional Steam Coal	BIT	ST
2018	6	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	8	320.0	Conventional Steam Coal	BIT	ST
2018	6	56772	TX LFG Energy, LP	IPP	Coastal Plains	TX	55554	UNT2	1.7	Landfill Gas	LFG	IC
2018	7	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2018	7	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2018	7	57101	FC Landfill Energy	IPP	FC Landfill Energy	MD	57786	UNIT1	1.0	Landfill Gas	LFG	IC
2018	7	57101	FC Landfill Energy	IPP	FC Landfill Energy	MD	57786	UNIT2	1.0	Landfill Gas	LFG	IC
2018	8	2872	Auburndale Peaker Energy Center LLC	IPP	Auburndale Peaker Energy Center	FL	55833	CTP	117.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	8	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2018	8	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2018	8	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2018	8	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2018	8	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2018	8	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2018	9	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
2018	9	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	294.4	Conventional Steam Coal	SUB	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	Arvah B Hopkins	FL	688	1	76.0	Natural Gas Steam Turbine	NG	ST
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	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	2LOT7	0.5	Solar Photovoltaic	SUN	PV
2018	10	20860	Wisconsin Public Service Corp	Electric Utility	Pulliam	WI	4072	7	76.1	Conventional Steam Coal	SUB	ST
2018	10	20860	Wisconsin Public Service Corp	Electric Utility	Pulliam	WI	4072	8	133.8	Conventional Steam Coal	SUB	ST
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	1	67.3	Conventional Steam Coal	SUB	ST
2018	12	12647	ALLETE, Inc.	Electric Utility	Clay Boswell	MN	1893	2	67.4	Conventional Steam Coal	SUB	ST
2018	12	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBA	0.3	Conventional Hydroelectric	WAT	HY
2018	12	8776	City of Holyoke Gas and Electric Dept.	Electric Utility	Harris Energy Realty	MA	54981	ALBD	0.4	Conventional Hydroelectric	WAT	HY

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	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2018	12	59173	City of Tulare Water Pollution Control	Commercial	City of Tulare Water Facility	CA	59395	C2550	0.4	Other Waste Biomass	OBG	IC
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	1	324.0	Conventional Steam Coal	BIT	ST
2018	12	6455	Duke Energy Florida, LLC	Electric Utility	Crystal River	FL	628	2	442.0	Conventional Steam Coal	BIT	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	42.1	Conventional Steam Coal	SUB	ST
2018	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	3	364.1	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	2	164.0	Conventional Steam Coal	SUB	ST
2018	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	3	170.0	Conventional Steam Coal	SUB	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	2	104.0	Natural Gas Steam Turbine	NG	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	3	110.0	Natural Gas Steam Turbine	NG	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	4	300.0	Natural Gas Steam Turbine	NG	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	5	330.0	Natural Gas Steam Turbine	NG	ST
2018	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	15908	NRG California South LP	IPP	Ellwood	CA	8076	01	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	17583	South Texas Electric Coop, Inc	Electric Utility	Sam Rayburn	TX	3631	1	10.5	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	17583	South Texas Electric Coop, Inc	Electric Utility	Sam Rayburn	TX	3631	2	11.5	Natural Gas Fired Combustion Turbine	NG	GT
2019	1	19145	DTE Tuscola, LLC	Industrial	Tuscola Station	IL	55245	TG1	3.8	Natural Gas Steam Turbine	NG	ST
2019	1	18715	Texas Municipal Power Agency	Electric Utility	Gibbons Creek	TX	6136	1	470.0	Conventional Steam Coal	SUB	ST
2019	2	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	1	106.0	Conventional Steam Coal	BIT	ST
2019	2	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	2	166.0	Conventional Steam Coal	BIT	ST
2019	2	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	SAC	0.3	Solar Photovoltaic	SUN	PV
2019	3	59879	Greenleaf Energy LLC	Electric CHP	Greenleaf 1 Power Plant	CA	10350	GEN1	42.0	Natural Gas Fired Combined Cycle	NG	CT
2019	3	59879	Greenleaf Energy LLC	Electric CHP	Greenleaf 1 Power Plant	CA	10350	GEN2	8.0	Natural Gas Fired Combined Cycle	NG	CA
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	12	2.8	Petroleum Liquids	DFO	GT
2019	3	13206	Nantucket Electric Co	Electric Utility	Nantucket	MA	1615	13	2.9	Petroleum Liquids	DFO	GT
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN1	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	7136	Georgia-Pacific Consr Prods LP-Naheola	Industrial	Georgia-Pacific Consr Prods LP-Naheola	AL	10699	GEN2	12.4	Wood/Wood Waste Biomass	BLQ	ST
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7	0.2	Solar Photovoltaic	SUN	PV
2019	4	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	LOT7B	0.2	Solar Photovoltaic	SUN	PV
2019	5	29926	Entergy Nuclear Generation Co	IPP	Pilgrim Nuclear Power Station	MA	1590	1	677.2	Nuclear	NUC	ST
2019	5	60771	Marcus Hook 50 L.P	Electric CHP	Marcus Hook Refinery Cogen	PA	50074	GEN1	48.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	5	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2019	5	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST
2019	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.2	Natural Gas Fired Combustion Turbine	NG	GT
2019	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.4	Natural Gas Fired Combustion Turbine	NG	GT
2019	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2019	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	83.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	83.0	Conventional Steam Coal	SUB	ST
2019	6	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	9	83.0	Conventional Steam Coal	SUB	ST
2019	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4	103.8	Conventional Hydroelectric	WAT	HY
2019	9	55951	Exelon Nuclear	IPP	Three Mile Island	PA	8011	1	802.8	Nuclear	NUC	ST
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2019	10	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	7	480.0	Natural Gas Steam Turbine	NG	ST
2019	10	60415	CP Crane Power, LLC	IPP	CP Crane Power, LLC	MD	1552	GT1	14.0	Petroleum Liquids	DFO	GT
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG1	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG2	2.8	Natural Gas Internal Combustion Engine	NG	IC
2019	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG3	2.8	Natural Gas Internal Combustion Engine	NG	IC
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	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	6	495.0	Natural Gas Steam Turbine	NG	ST
2019	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1	225.8	Natural Gas Steam Turbine	NG	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	61138	City Point Energy Center	Electric CHP	James River Genco LLC	VA	10377	GEN1	46.3	Conventional Steam Coal	BIT	ST
2019	12	61138	City Point Energy Center	Electric CHP	James River Genco LLC	VA	10377	GEN2	46.3	Conventional Steam Coal	BIT	ST
2019	12	228	City of Albany - (MO)	Electric Utility	Albany	MO	2113	1	2.1	Petroleum Liquids	DFO	IC

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
2019	12	59879	Greenleaf Energy LLC	Electric CHP	Greenleaf 2 Power Plant	CA	10349	GEN1	49.5	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	8688	Hofstra University	Commercial	Hofstra University	NY	51035	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2019	12	8688	Hofstra University	Commercial	Hofstra University	NY	51035	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	4	97.1	Natural Gas Steam Turbine	NG	ST
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.2	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV1	750.0	Conventional Steam Coal	BIT	ST
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV2	750.0	Conventional Steam Coal	BIT	ST
2019	12	16572	Salt River Project	Electric Utility	Navajo	AZ	4941	NAV3	750.0	Conventional Steam Coal	BIT	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
2020	1	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2020	1	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
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	4	6027	Entergy Nuclear Indian Point 2	IPP	Indian Point 2	NY	2497	2	1,000.4	Nuclear	NUC	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, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P1	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P2	25.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P3	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Higgins	FL	630	P4	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	1	180.0	Conventional Steam Coal	BIT	ST
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	2	180.0	Conventional Steam Coal	BIT	ST
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	3	180.0	Conventional Steam Coal	BIT	ST
2020	5	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	4	180.0	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	7483	City of Grand Haven - (MI)	Electric Utility	Grand Haven Diesel Plant	MI	1826	1	8.4	Natural Gas Internal Combustion Engine	NG	IC
2020	6	60422	H.A. Wagner LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	RC	ST
2020	7	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2020	7	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
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	5	485.0	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	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	4	56.0	Natural Gas Steam Turbine	NG	ST
2020	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	5	97.0	Natural Gas Steam Turbine	NG	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	4	64.0	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	5	63.1	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	6	62.8	Conventional Steam Coal	SUB	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	107.0	Natural Gas Steam Turbine	NG	ST

Table 6.6. Planned U.S. Electric Generating Unit Retirements

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
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	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2020	12	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
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	RC	ST
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	21.2	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	49.8	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	46.7	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	34.3	Natural Gas Fired Combustion Turbine	NG	GT
2021	1	15908	NRG California South LP	IPP	Ormond Beach	CA	350	1	741.0	Natural Gas Steam Turbine	NG	ST
2021	1	15908	NRG California South LP	IPP	Ormond Beach	CA	350	2	750.0	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	4	6028	Entergy Nuclear Indian Point 3	IPP	Indian Point 3	NY	8907	3	1,041.3	Nuclear	NUC	ST
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Northeast (IN)	IN	1013	1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	4	17633	Southern Indiana Gas & Elec Co	Electric Utility	Northeast (IN)	IN	1013	2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
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	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	3	383.4	Conventional Steam Coal	SUB	ST
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	12	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	1	0.8	Conventional Hydroelectric	WAT	HY
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	6	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	801.8	Nuclear	NUC	ST
2022	7	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	1	307.0	Conventional Steam Coal	SUB	ST
2022	7	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	2	307.0	Conventional Steam Coal	SUB	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	SUB	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	15470	Duke Energy Indiana, LLC	Electric Utility	R Gallagher	IN	1008	2	140.0	Conventional Steam Coal	BIT	ST
2022	12	15470	Duke Energy Indiana, LLC	Electric Utility	R Gallagher	IN	1008	4	140.0	Conventional Steam Coal	BIT	ST
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN1	55.0	Petroleum Liquids	JF	GT
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN2	55.0	Petroleum Liquids	JF	GT
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN3	55.0	Petroleum Liquids	JF	GT
2022	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	2	76.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2022	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	1	325.0	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
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	1	12.0	Conventional Steam Coal	BIT	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	2	12.0	Conventional Steam Coal	BIT	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	3	12.0	Conventional Steam Coal	BIT	ST
2022	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Nucla	CO	527	ST4	64.0	Conventional Steam Coal	BIT	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	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	1	82.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	1	39.0	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
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	167.0	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	64.8	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	90.8	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	1	245.0	Conventional Steam Coal	BIT	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	2	245.0	Conventional Steam Coal	BIT	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	GEN3	18.0	Natural Gas Steam Turbine	NG	ST
2024	11	14328	Pacific Gas & Electric Co.	Electric Utility	Diablo Canyon	CA	6099	1	1,122.0	Nuclear	NUC	ST
2024	12	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	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	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
2024	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	Conventional Steam Coal	BIT	ST
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	8	14328	Pacific Gas & Electric Co.	Electric Utility	Diablo Canyon	CA	6099	2	1,118.0	Nuclear	NUC	ST
2025	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
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	56155	Lansing Board of Water and Light	Electric Utility	Erickson Station	MI	1832	1	154.5	Conventional Steam Coal	SUB	ST
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	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	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	2	335.0	Conventional Steam Coal	SUB	ST
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	2	268.0	Conventional Steam Coal	SUB	ST
2025	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	Broadway (IN)	IN	1011	2	65.0	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	RC	ST
2025	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	1	428.0	Conventional Steam Coal	SUB	ST
2026	12	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	1	420.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	102.0	Natural Gas Steam Turbine	NG	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
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	82.0	Natural Gas Fired Combustion Turbine	NG	GT
2029	10	56667	Loraine Windpower Project	IPP	Loraine Windpark Project LLC	TX	57303	LWG1	75.0	Onshore Wind Turbine	WND	WT
2047	1	60304	Innovative Solar 31, LLC	IPP	Innovative Solar 31	NC	60540	IS031	35.0	Solar Photovoltaic	SUN	PV
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV
2047	9	60734	Elizabeth Mines Solar 1, LLC	IPP	Elizabeth Mines Solar 1	VT	61124	EMS1	5.0	Solar Photovoltaic	SUN	PV
2048	6	60871	Stuttgart Solar, LLC	IPP	Stuttgart Solar	AR	61262	STGRT	81.0	Solar Photovoltaic	SUN	PV

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

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-May 2018

	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	59.8%	48.2%	4.9%	10.6%	6.1%	12.1%	0.8%	2.2%
2014	61.1%	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	53.3%	55.5%	8.3%	12.4%	9.6%	11.5%	1.1%	2.6%
2017	53.5%	54.8%	9.4%	11.3%	NA	13.0%	2.0%	NA
Year 2016								
January	56.4%	56.4%	5.0%	7.1%	9.5%	10.1%	0.6%	3.1%
February	49.1%	53.6%	5.0%	7.4%	8.6%	10.6%	0.7%	2.8%
March	36.0%	50.2%	7.1%	10.2%	8.9%	8.9%	1.1%	2.2%
April	37.8%	47.6%	8.3%	11.7%	9.2%	9.7%	0.8%	2.1%
May	41.6%	52.5%	7.6%	12.3%	9.3%	11.4%	1.1%	2.5%
June	61.2%	63.9%	9.9%	17.5%	10.3%	13.3%	1.3%	2.1%
July	69.8%	68.2%	13.7%	23.1%	11.7%	16.9%	2.1%	2.1%
August	69.3%	70.8%	13.8%	21.1%	12.7%	15.1%	2.6%	2.3%
Sept	60.4%	60.7%	9.5%	14.6%	10.3%	12.9%	1.2%	2.3%
October	50.8%	47.8%	7.8%	11.4%	8.0%	8.8%	0.9%	2.4%
November	46.2%	46.3%	6.8%	6.5%	7.9%	9.9%	0.7%	2.8%
December	61.2%	47.5%	5.1%	5.4%	8.3%	10.1%	0.5%	4.0%
Year 2017								
January	59.5%	50.4%	6.6%	4.3%	NA	10.7%	1.6%	NA
February	49.4%	48.2%	6.9%	3.9%	NA	9.5%	2.0%	NA
March	46.1%	48.1%	9.8%	7.8%	NA	12.9%	2.1%	NA
April	43.7%	45.8%	8.3%	8.6%	NA	9.5%	1.2%	NA
May	48.3%	49.4%	9.0%	9.9%	NA	15.4%	1.9%	NA
June	58.4%	60.1%	9.9%	15.4%	NA	15.3%	1.8%	NA
July	67.1%	70.2%	12.8%	21.4%	NA	18.1%	2.1%	NA
August	62.9%	69.3%	11.0%	18.5%	NA	14.3%	2.2%	NA
Sept	53.4%	58.9%	11.7%	15.4%	NA	13.5%	3.0%	NA
October	47.5%	51.2%	10.0%	14.3%	NA	11.1%	2.6%	NA
November	49.3%	48.6%	8.2%	6.8%	NA	12.7%	1.5%	NA
December	56.1%	55.3%	8.1%	8.8%	NA	13.5%	1.5%	NA
Year 2018								
January	63.8%	54.0%	12.7%	11.8%	NA	18.2%	5.0%	NA
February	49.3%	55.1%	7.8%	5.8%	NA	11.2%	0.9%	NA
March	43.8%	51.6%	10.3%	8.0%	NA	10.4%	1.4%	NA
April	41.8%	48.1%	12.2%	8.1%	NA	12.5%	1.9%	NA
May	47.0%	52.8%	12.3%	16.6%	NA	9.1%	2.3%	NA

Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. NA = Not Available

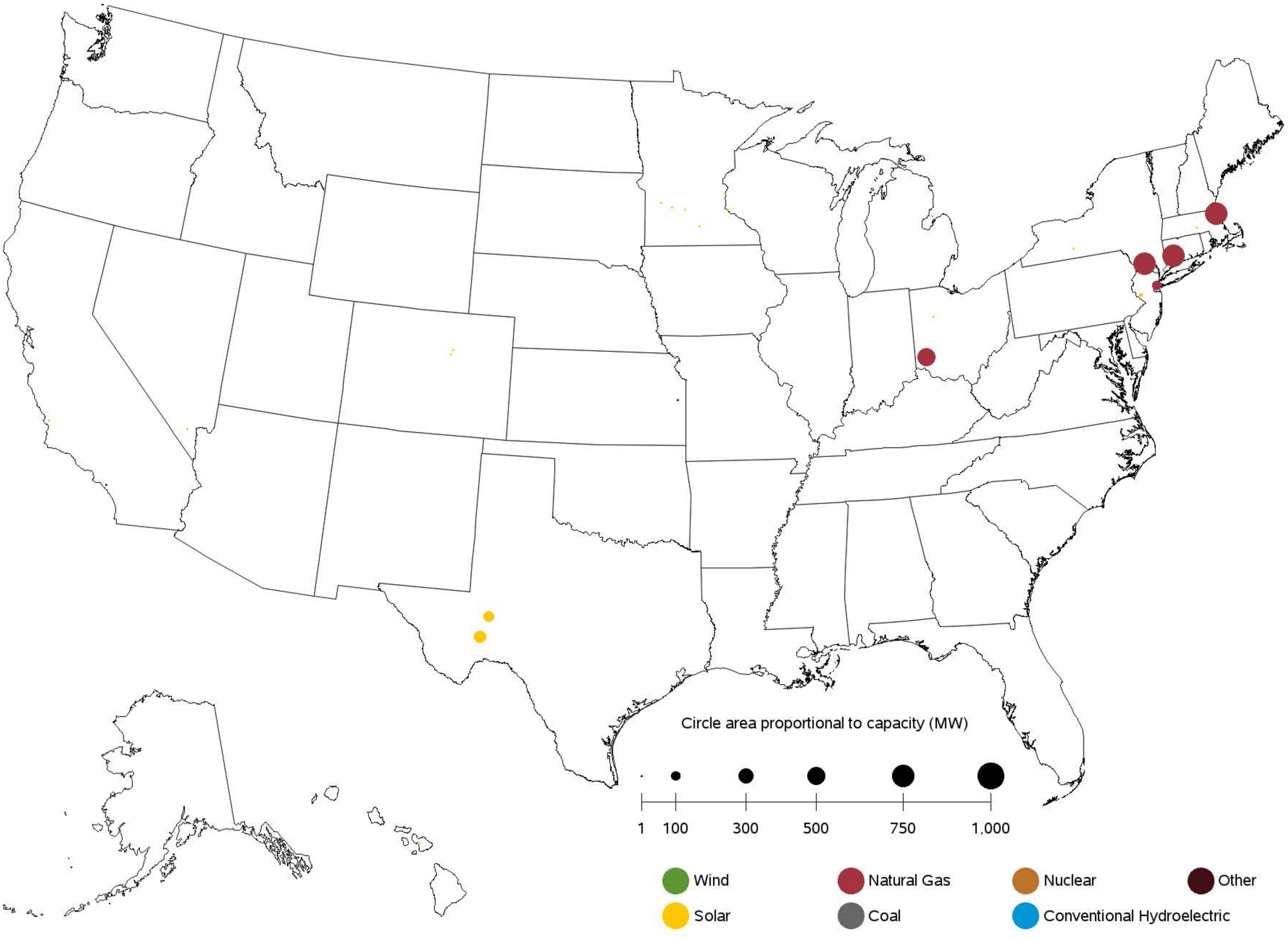
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels, January 2013-May 2018

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	92.3%	38.2%	34.5%	25.1%	22.2%	69.7%	55.6%	73.9%
2017	92.2%	45.2%	36.7%	27.0%	21.8%	70.9%	50.7%	76.4%
Year 2016								
January	98.5%	43.6%	33.9%	15.2%	6.8%	68.3%	58.5%	73.4%
February	95.3%	43.8%	39.6%	22.9%	19.5%	67.6%	61.2%	73.2%
March	89.9%	45.9%	40.2%	24.9%	19.6%	67.2%	55.8%	72.5%
April	88.1%	44.6%	39.3%	27.2%	20.9%	69.3%	45.8%	68.8%
May	90.5%	42.8%	34.2%	30.2%	28.9%	72.9%	47.0%	73.9%
June	94.2%	40.6%	30.5%	30.3%	33.5%	72.0%	54.7%	71.2%
July	94.5%	36.1%	31.9%	31.7%	36.9%	70.9%	59.3%	72.2%
August	96.1%	33.0%	24.5%	31.7%	29.2%	70.3%	63.5%	73.0%
Sept	90.9%	28.6%	30.4%	28.5%	30.2%	67.9%	58.5%	75.5%
October	81.7%	29.3%	36.4%	24.0%	19.1%	63.8%	48.9%	74.6%
November	90.9%	32.8%	35.3%	20.4%	14.4%	72.6%	54.9%	77.7%
December	96.7%	37.9%	38.8%	16.2%	7.0%	73.4%	59.6%	80.1%
Year 2017								
January	98.7%	48.4%	36.6%	16.8%	7.3%	75.4%	49.3%	79.7%
February	94.9%	47.8%	42.5%	19.8%	11.7%	71.6%	55.5%	77.9%
March	87.8%	54.1%	44.6%	27.8%	22.9%	67.7%	51.8%	74.9%
April	79.1%	53.9%	44.9%	31.0%	24.9%	67.9%	51.2%	78.6%
May	82.7%	56.8%	38.7%	34.1%	31.0%	70.6%	47.0%	74.0%
June	93.4%	57.1%	34.5%	35.7%	37.9%	72.6%	49.1%	75.2%
July	96.2%	46.2%	27.5%	33.7%	25.4%	71.3%	51.0%	78.0%
August	97.6%	37.9%	22.3%	31.2%	27.6%	72.7%	49.0%	77.4%
Sept	94.9%	34.7%	31.5%	29.6%	29.2%	69.3%	48.2%	77.8%
October	89.0%	30.2%	41.6%	26.6%	24.1%	67.0%	52.4%	69.3%
November	92.9%	35.3%	39.4%	20.1%	10.3%	71.1%	51.5%	76.6%
December	99.4%	40.0%	37.2%	17.4%	9.0%	73.3%	52.7%	77.4%
Year 2018								
January	100.7%	44.9%	42.5%	18.7%	10.0%	72.1%	54.9%	76.4%
February	96.8%	48.8%	41.9%	22.8%	16.1%	76.5%	57.2%	80.6%
March	90.4%	44.8%	44.0%	26.2%	19.3%	72.8%	52.3%	78.4%
April	82.4%	49.7%	44.9%	31.2%	24.4%	71.6%	43.9%	70.5%
May	90.8%	53.9%	38.6%	31.9%	33.0%	68.9%	48.4%	79.0%

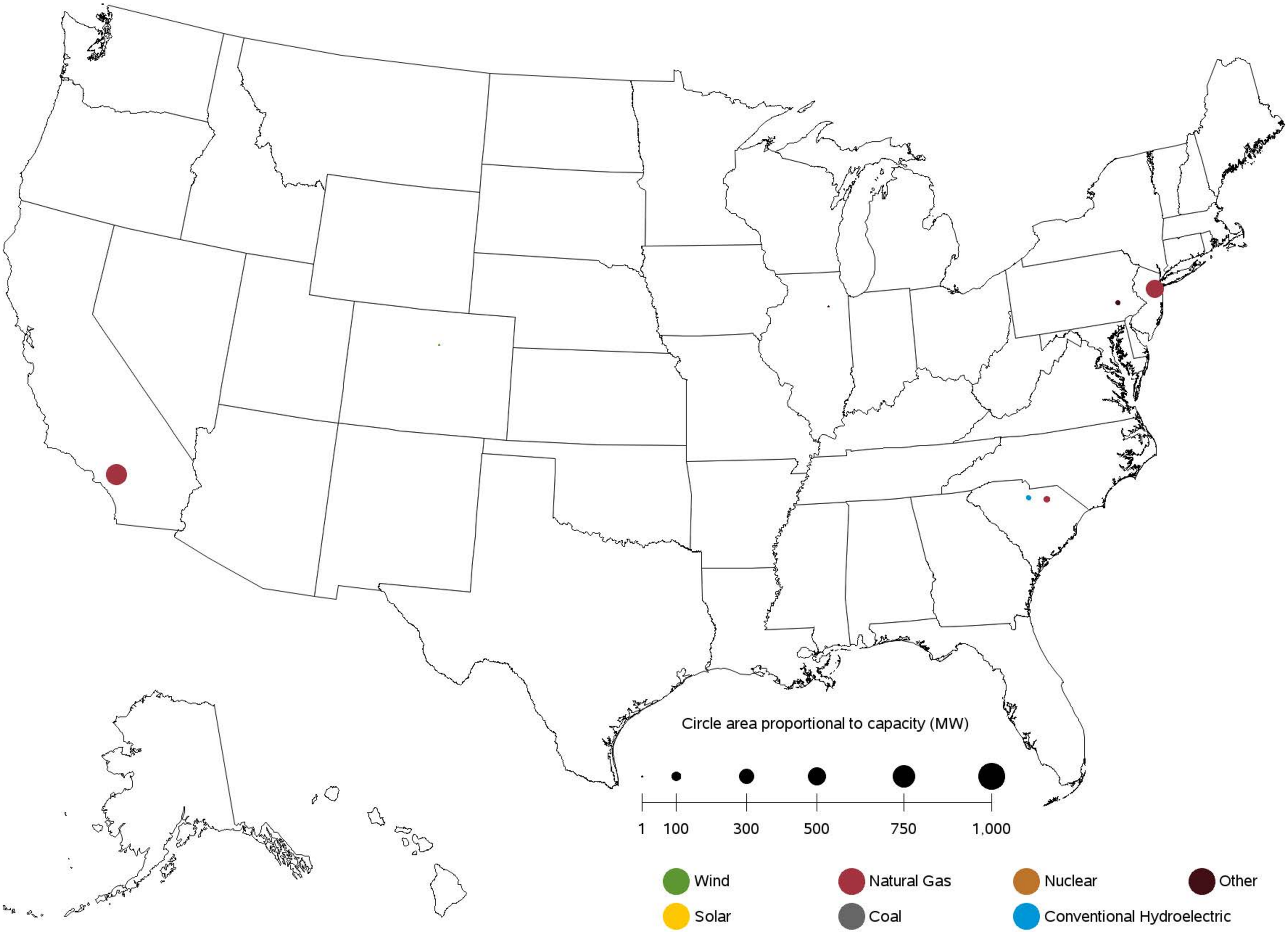
Values for 2016 and prior years are final. Values for 2017 and 2018 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.A. Utility-Scale Generating Units Added in May 2018



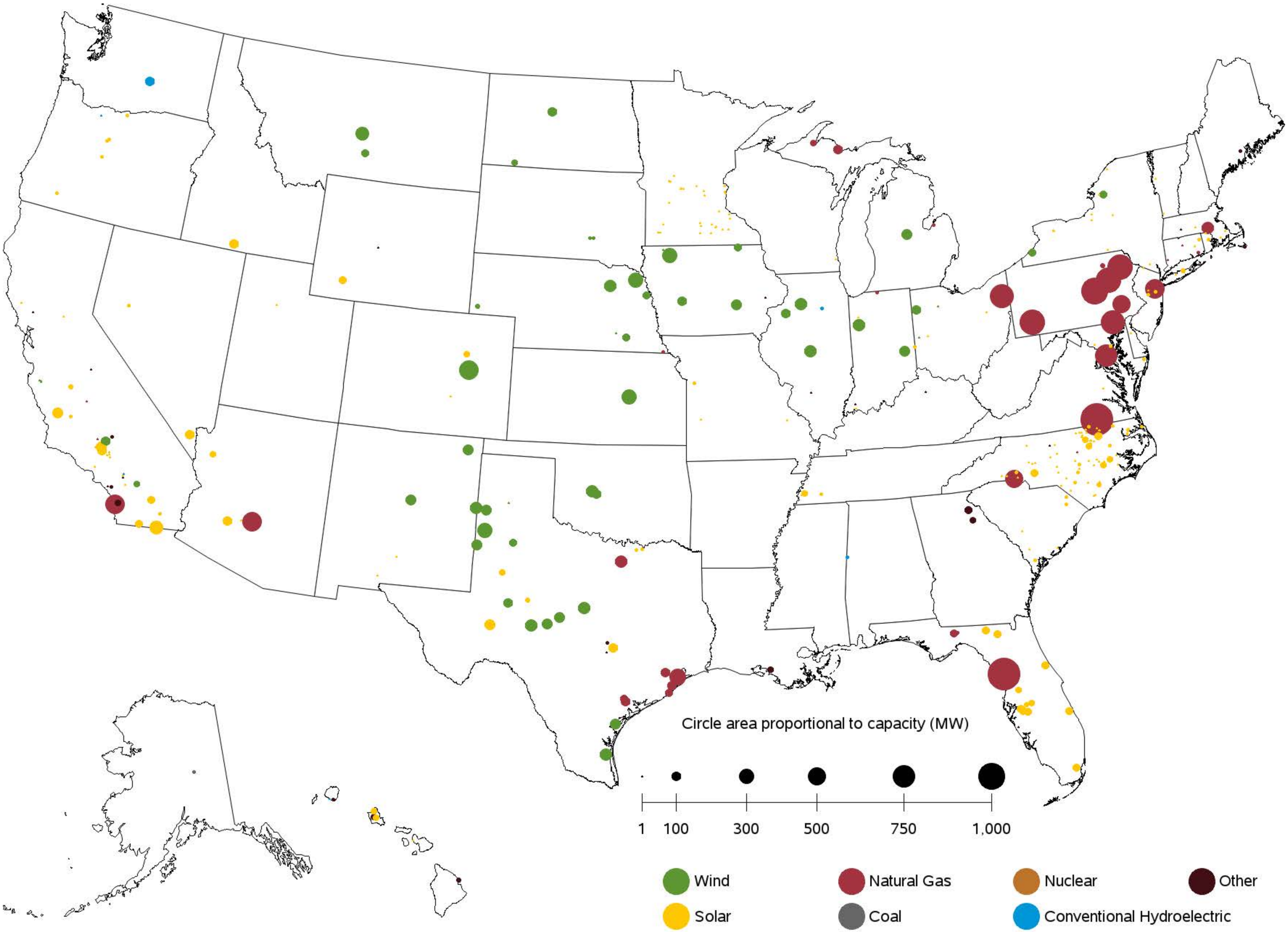
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in May 2018



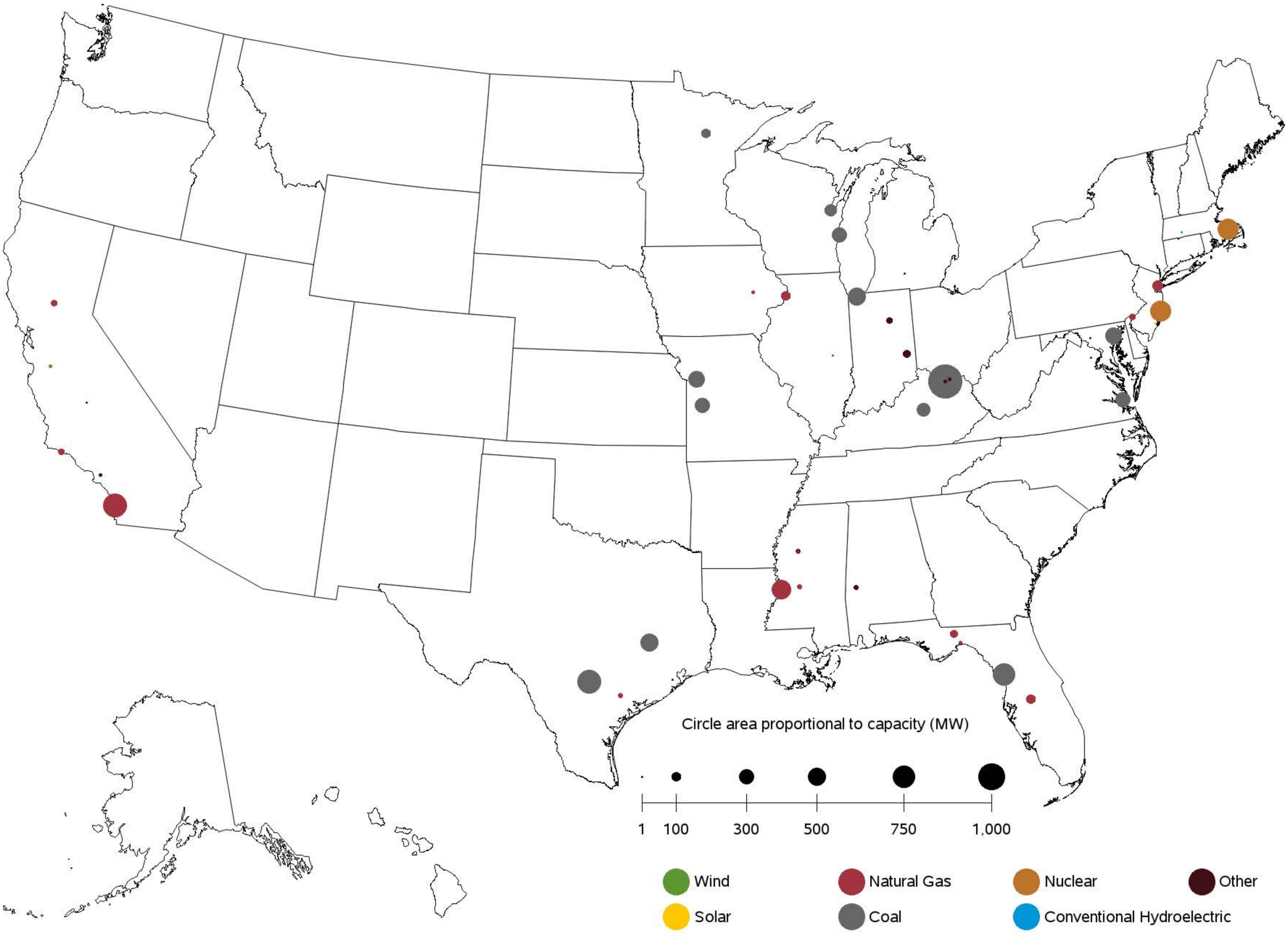
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from June 2018 to May 2019



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

Figure 6.1.D. Utility-Scale Generating Units Planned to Retire from June 2018 to May 2019



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 7.1. Electric Power Industry - U.S. Electricity Imports from and Electricity Exports to Canada and Mexico (Megawatthours)

	Canada		Mexico		U.S. Total		
Period	Imports from	Exports to	Imports from	Exports to	Imports	Exports	Net Imports
Annual Totals							
2016	65,173,818	2,682,381	7,542,445	3,531,636	72,716,263	6,214,017	66,502,246
2017	59,909,320	3,312,798	5,775,597	6,058,005	65,684,917	9,370,803	56,314,114
Year 2016							
January	5,886,417	227,589	636,613	161,007	6,523,030	388,596	6,134,434
February	4,927,541	384,301	505,252	167,788	5,432,793	552,089	4,880,704
March	5,210,412	410,645	598,334	260,086	5,808,746	670,731	5,138,015
April	4,092,342	358,746	610,099	91,608	4,702,441	450,354	4,252,087
May	4,977,621	142,398	583,132	227,227	5,560,753	369,625	5,191,128
June	6,162,812	94,538	585,652	515,952	6,748,464	610,490	6,137,974
July	6,969,110	78,459	704,978	496,360	7,674,088	574,819	7,099,269
August	6,577,610	149,565	771,285	437,154	7,348,895	586,719	6,762,176
Sept	4,631,320	161,183	666,113	425,652	5,297,433	586,835	4,710,598
October	4,989,801	320,694	761,195	111,790	5,750,996	432,484	5,318,512
November	5,809,773	109,219	611,189	307,814	6,420,962	417,033	6,003,929
December	4,939,059	245,044	508,603	329,198	5,447,662	574,242	4,873,420
Year 2017							
January	6,345,401	172,909	673,166	310,843	7,018,567	483,752	6,534,815
February	5,120,144	359,401	552,254	330,610	5,672,398	690,011	4,982,387
March	5,612,473	663,648	410,568	334,509	6,023,041	998,157	5,024,884
April	5,262,194	619,414	299,908	486,903	5,562,102	1,106,317	4,455,785
May	4,912,110	341,657	171,906	489,911	5,084,016	831,568	4,252,448
June	5,637,814	242,997	355,162	568,400	5,992,976	811,397	5,181,579
July	5,328,084	65,828	585,167	642,440	5,913,251	708,268	5,204,983
August	5,874,172	63,435	634,751	709,103	6,508,923	772,538	5,736,385
Sept	4,715,752	139,000	512,536	553,042	5,228,288	692,042	4,536,246
October	3,504,501	165,550	447,906	544,420	3,952,407	709,970	3,242,437
November	3,379,626	263,999	550,385	558,909	3,930,011	822,908	3,107,103
December	4,217,049	214,960	581,888	528,915	4,798,937	743,875	4,055,062

Source: U.S. Energy Information Administration, Form EIA-111, "Quarterly Electricity Imports and Exports Report."

Table 8.1 Puerto Rico- Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2008 - May 2018 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	6,473	9,023	3,544	0	19,040
2009	6,673	8,937	3,094	0	18,704
2010	6,975	9,041	2,968	0	18,984
2011	6,587	8,832	2,832	0	18,251
2012	6,771	8,879	2,500	0	18,150
2013	6,320	8,969	2,504	0	17,793
2014	6,218	8,761	2,376	0	17,356
2015	6,314	8,586	2,355	0	17,255
2016	6,524	8,569	2,251	0	17,344
2017	5,060	7,024	1,752	0	13,837
Year 2016					
January	515	648	158	0	1,321
February	447	647	176	0	1,270
March	499	738	208	0	1,445
April	506	665	176	0	1,346
May	556	746	202	0	1,504
June	594	742	201	0	1,537
July	621	773	193	0	1,587
August	604	722	205	0	1,530
Sept	594	751	187	0	1,532
October	540	704	180	0	1,424
November	541	723	190	0	1,454
December	509	709	176	0	1,394
Year 2017					
January	509	670	160	0	1,339
February	397	594	154	0	1,145
March	492	720	192	0	1,404
April	496	648	185	0	1,329
May	527	697	182	0	1,406
June	597	714	185	0	1,496
July	592	732	201	0	1,525
August	634	741	187	0	1,563
Sept	521	384	128	0	1,033
October	16	229	11	0	256
November	42	578	28	0	648
December	238	316	139	0	692
Year 2018					
January	389	558	142	0	1,089
February	393	760	175	0	1,328
March	450	531	98	0	1,080
April	466	784	273	0	1,524
May	566	802	165	0	1,533
Year to Date					
2016	2,522	3,444	920	0	6,886
2017	2,420	3,329	873	0	6,622
2018	2,264	3,435	854	0	6,553
Rolling 12 Months Ending in May					
2017	6,422	8,455	2,204	0	17,081
2018	4,905	7,130	1,732	0	13,767

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

Table 8.2 Puerto Rico- Revenue from Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2008 - May 2018 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	1,574	2,285	734	0	4,593
2009	1,313	1,868	518	0	3,699
2010	1,521	2,103	564	0	4,188
2011	1,748	2,483	663	0	4,894
2012	1,690	2,605	647	0	4,942
2013	1,633	2,474	570	0	4,678
2014	1,636	2,394	551	0	4,581
2015	1,282	1,850	417	0	3,549
2016	1,170	1,677	356	0	3,203
2017	1,008	1,545	328	0	2,881
Year 2016					
January	86	120	23	0	229
February	75	118	25	0	218
March	79	131	29	0	239
April	86	124	26	0	235
May	91	139	29	0	259
June	103	141	30	0	274
July	110	150	30	0	291
August	118	154	36	0	308
Sept	111	146	31	0	288
October	108	155	33	0	296
November	102	147	32	0	282
December	101	152	31	0	284
Year 2017					
January	102	142	30	0	273
February	90	143	31	0	264
March	96	151	34	0	280
April	99	143	34	0	276
May	108	157	34	0	299
June	117	151	33	0	302
July	118	160	36	0	315
August	130	166	35	0	331
Sept	91	74	21	0	186
October	3	46	2	0	51
November	8	115	5	0	128
December	45	98	34	0	177
Year 2018					
January	86	159	32	0	277
February	76	171	32	0	279
March	110	149	22	0	280
April	84	161	54	0	300
May	104	165	23	0	292
Year to Date					
2016	417	632	132	0	1,180
2017	495	736	162	0	1,393
2018	460	805	163	0	1,428
Rolling 12 Months Ending in May					
2017	1,248	1,781	386	0	3,415
2018	973	1,615	329	0	2,916

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

Table 8.3 Puerto Rico- Number of Ultimate Customers Served by Sector: Total by End-Use Sector, 2008 - May 2018

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	1,318,498	133,223	1,225	0	1,452,946
2009	1,330,507	132,620	828	0	1,463,955
2010	1,339,703	133,029	790	0	1,473,522
2011	1,341,708	132,738	750	0	1,475,196
2012	1,349,750	131,264	721	0	1,481,735
2013	1,340,989	131,034	694	0	1,472,717
2014	1,328,546	129,122	662	0	1,458,330
2015	1,326,631	127,365	647	0	1,454,643
2016	1,332,152	127,179	633	0	1,459,964
2017	1,337,741	127,064	617	0	1,465,421
Year 2016					
January	1,327,936	127,058	640	0	1,455,634
February	1,328,227	127,040	637	0	1,455,904
March	1,329,387	127,155	636	0	1,457,178
April	1,331,140	127,236	635	0	1,459,011
May	1,332,103	127,264	636	0	1,460,003
June	1,332,712	127,158	635	0	1,460,505
July	1,333,672	127,327	633	0	1,461,632
August	1,333,858	127,218	631	0	1,461,707
Sept	1,331,317	126,967	627	0	1,458,911
October	1,334,555	127,221	626	0	1,462,402
November	1,335,163	127,237	629	0	1,463,029
December	1,335,753	127,265	627	0	1,463,645
Year 2017					
January	1,336,466	127,250	626	0	1,464,342
February	1,337,086	127,228	625	0	1,464,939
March	1,335,398	127,146	619	0	1,463,163
April	1,337,149	127,085	619	0	1,464,853
May	1,337,941	127,047	617	0	1,465,605
June	1,339,358	127,118	615	0	1,467,091
July	1,338,876	127,048	613	0	1,466,537
August	1,337,743	127,025	614	0	1,465,382
Sept	1,338,958	127,055	614	0	1,466,627
October	1,337,246	126,947	614	0	1,464,807
November	1,338,102	126,940	612	0	1,465,654
December	1,338,568	126,876	611	0	1,466,055
Year 2018					
January	1,338,417	126,681	611	0	1,465,709
February	1,337,561	126,422	612	0	1,464,595
March	1,338,960	126,367	613	0	1,465,940
April	1,339,727	126,216	612	0	1,466,555

Table 8.4 Puerto Rico- Average Price of Electricity to Ultimate Customers: Total by End-Use Sector, 2008 - May 2018 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	24.32	25.32	20.72	--	24.12
2009	19.68	20.91	16.73	--	19.78
2010	21.80	23.26	19.01	--	22.06
2011	26.54	28.11	23.39	--	26.82
2012	24.96	29.34	25.89	--	27.23
2013	25.84	27.59	22.77	--	26.29
2014	26.31	27.33	23.18	--	26.39
2015	20.31	21.55	17.71	--	20.57
2016	17.93	19.57	15.83	--	18.47
2017	19.91	22.00	18.73	--	20.82
Year 2016					
January	16.78	18.54	14.39	--	17.36
February	16.74	18.31	14.23	--	17.19
March	15.90	17.70	14.02	--	16.55
April	16.91	18.58	14.52	--	17.42
May	16.33	18.63	14.61	--	17.24
June	17.32	19.01	15.12	--	17.85
July	17.78	19.39	15.74	--	18.31
August	19.50	21.38	17.42	--	20.11
Sept	18.66	19.42	16.61	--	18.78
October	20.07	22.02	18.35	--	20.82
November	18.88	20.34	17.04	--	19.37
December	19.79	21.45	17.90	--	20.40
Year 2017					
January	20.01	21.16	18.50	--	20.40
February	22.71	24.01	20.18	--	23.05
March	19.43	20.96	17.51	--	19.95
April	20.06	22.13	18.16	--	20.80
May	20.51	22.49	18.76	--	21.27
June	19.63	21.18	17.91	--	20.16
July	19.93	21.87	18.17	--	20.63
August	20.47	22.39	18.64	--	21.16
Sept	17.51	19.24	16.12	--	17.98
October	19.09	19.91	18.17	--	19.78
November	18.76	19.91	18.17	--	19.76
December	19.07	30.87	24.37	--	25.52
Year 2018					
January	22.11	28.53	22.32	--	25.43
February	19.32	22.48	18.45	--	21.02
March	24.40	27.97	22.42	--	25.97
April	18.09	20.56	19.86	--	19.68
May	18.38	20.61	13.77	--	19.05
Year to Date					
2016	16.52	18.34	14.35	--	17.14
2017	20.45	22.09	18.56	--	21.03
2018	20.32	23.44	19.09	--	21.80
Rolling 12 Months Ending in May					
2017	19.43	21.07	17.53	--	20.00
2018	19.83	22.65	18.99	--	21.18

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

Table 8.5. Net Summer Capacity (MW) of Existing Utility Scale Units by Technology for Puerto Rico, 2007-May 2018

Period	Coal	Hydroelectric Conventional	Natural Gas	Other	Petroleum	Solar	Wind	Total
Annual Totals								
2007	454	98	1,324	0	3,343	3	0	5,221
2008	454	98	1,324	0	4,087	3	0	5,966
2009	454	98	1,324	0	4,152	3	0	6,031
2010	454	98	1,324	0	4,152	3	0	6,031
2011	454	98	1,324	0	4,152	8	0	6,036
2012	454	98	1,324	0	4,152	25	98	6,152
2013	454	98	1,324	0	4,152	28	98	6,155
2014	454	98	1,324	0	4,152	40	99	6,167
2015	454	98	1,324	9	4,156	72	99	6,212
2016	454	98	1,324	33	4,156	147	99	6,311
2017	454	98	1,324	33	4,156	147	99	6,311
Year 2018								
January	454	98	1,324	33	4,131	142	99	6,282
February	454	98	1,324	33	4,131	142	99	6,282
March	454	98	1,324	33	4,131	145	99	6,284
April	454	98	1,324	33	4,156	145	99	6,309
May	454	98	1,324	33	4,156	145	99	6,309

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report.

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

Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, May 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**32**	**45**	**0**	**3**	**0**	**0**	**9**
Connecticut	0	67	0	3	0	0	33
Maine	41	45	0	17	0	0	10
Massachusetts	0	98	0	6	0	0	21
New Hampshire	0	66	0	0	0	0	18
Rhode Island	0	365	0	12	0	0	0
Vermont	0	231	0	0	0	0	16
Middle Atlantic	**4**	**20**	**102**	**1**	**51**	**0**	**2**
New Jersey	0	13	0	3	0	0	77
New York	0	26	0	3	0	0	2
Pennsylvania	4	32	171	1	78	0	12
East North Central	**1**	**10**	**18**	**2**	**15**	**0**	**15**
Illinois	0	33	0	6	0	0	28
Indiana	1	5	0	3	30	0	25
Michigan	3	4	0	3	0	0	31
Ohio	2	20	118	2	39	0	23
Wisconsin	1	22	0	9	0	0	23
West North Central	**1**	**6**	**0**	**8**	**0**	**0**	**12**
Iowa	1	8	0	9	0	0	43
Kansas	2	4	0	17	0	0	0
Minnesota	5	27	0	15	0	0	36
Missouri	0	25	0	7	0	0	15
Nebraska	5	77	0	43	0	0	31
North Dakota	0	2	0	54	0	0	26
South Dakota	0	22	0	48	0	0	17
South Atlantic	**1**	**4**	**7**	**1**	**0**	**0**	**6**
Delaware	0	54	0	9	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	6	0	1	0	0	39
Georgia	0	25	72	4	0	0	11
Maryland	0	36	0	3	0	0	1
North Carolina	0	5	0	3	0	0	9
South Carolina	0	6	0	5	0	0	14
Virginia	5	5	0	4	0	0	14
West Virginia	2	0	0	17	0	0	16
East South Central	**0**	**11**	**0**	**1**	**106**	**0**	**5**
Alabama	0	82	0	2	437	0	6
Kentucky	0	8	0	3	0	0	10
Mississippi	0	16	0	2	0	0	0
Tennessee	0	8	0	7	0	0	7
West South Central	**0**	**7**	**0**	**1**	**5**	**0**	**7**
Arkansas	0	22	0	6	0	0	9
Louisiana	0	16	0	2	12	0	15
Oklahoma	0	2	0	3	0	0	10
Texas	0	9	0	2	4	0	15
Mountain	**1**	**3**	**0**	**1**	**0**	**0**	**7**
Arizona	0	1	0	2	0	0	8
Colorado	0	16	0	2	0	0	24
Idaho	154	0	0	39	0	0	13
Montana	10	6	0	52	0	0	12
Nevada	0	0	0	1	0	0	3
New Mexico	0	27	0	3	0	0	77
Utah	0	1	0	4	0	0	41
Wyoming	5	1	0	26	0	0	37
Pacific Contiguous	**0**	**8**	**0**	**2**	**2**	**0**	**2**
California	0	4	0	2	3	0	6
Oregon	0	0	0	17	0	0	5
Washington	0	57	0	17	0	0	1
Pacific Noncontiguous	**21**	**1**	**0**	**35**	**0**	**0**	**27**
Alaska	56	2	0	35	0	0	29
Hawaii	0	1	0	0	0	0	63
U.S. Total	**0**	**2**	**5**	**1**	**7**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, May 2018 (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**	**11**	**6**	**0**	**1**	**2**
Connecticut	0	0	0	41	17	0	0	1
Maine	0	0	0	134	8	0	0	6
Massachusetts	0	0	0	13	8	0	2	4
New Hampshire	0	0	0	0	21	0	0	3
Rhode Island	0	0	0	74	12	0	0	11
Vermont	0	0	0	38	20	0	0	12
Middle Atlantic	**0**	**0**	**0**	**11**	**4**	**0**	**1**	**1**
New Jersey	0	0	0	13	8	0	0	2
New York	0	0	0	24	5	0	2	1
Pennsylvania	0	0	0	46	5	0	0	1
East North Central	**0**	**0**	**0**	**15**	**3**	**0**	**3**	**1**
Illinois	0	0	0	38	4	0	0	1
Indiana	0	0	0	22	5	0	0	1
Michigan	0	0	0	30	6	0	10	1
Ohio	0	0	0	37	5	0	0	1
Wisconsin	0	0	0	70	8	0	45	2
West North Central	**0**	**0**	**0**	**10**	**3**	**0**	**5**	**1**
Iowa	0	0	0	114	4	0	0	2
Kansas	0	0	0	138	3	0	0	3
Minnesota	0	0	0	11	5	0	3	3
Missouri	0	0	0	41	7	0	0	1
Nebraska	0	0	0	84	7	0	0	4
North Dakota	0	0	0	0	5	0	48	3
South Dakota	0	0	0	316	12	0	0	10
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**1**	**1**
Delaware	0	0	0	56	36	0	0	8
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	4	3	0	1	1
Georgia	0	0	0	9	4	0	15	2
Maryland	0	0	0	17	9	0	0	1
North Carolina	0	0	0	5	4	0	0	1
South Carolina	0	0	0	17	5	0	0	1
Virginia	0	0	0	14	7	0	0	2
West Virginia	0	0	0	0	10	0	0	2
East South Central	**0**	**0**	**0**	**10**	**3**	**0**	**40**	**1**
Alabama	0	0	0	18	4	0	0	1
Kentucky	0	0	0	51	14	0	0	1
Mississippi	0	0	0	5	3	0	0	2
Tennessee	0	0	0	33	9	0	88	1
West South Central	**0**	**0**	**0**	**5**	**2**	**0**	**2**	**1**
Arkansas	0	0	0	5	4	0	0	2
Louisiana	0	0	0	302	4	0	2	1
Oklahoma	0	0	0	55	3	0	0	2
Texas	0	0	0	5	2	0	4	1
Mountain	**0**	**3**	**0**	**3**	**2**	**0**	**0**	**1**
Arizona	0	0	0	4	5	0	0	1
Colorado	0	0	0	13	4	0	0	2
Idaho	0	14	0	16	7	0	0	10
Montana	0	0	0	77	12	0	0	8
Nevada	0	3	0	4	3	0	0	1
New Mexico	0	0	0	12	4	0	0	2
Utah	0	6	0	10	7	0	0	2
Wyoming	0	0	0	0	8	0	0	4
Pacific Contiguous	**0**	**1**	**0**	**3**	**2**	**0**	**2**	**1**
California	0	1	0	3	2	0	2	2
Oregon	0	9	0	17	4	0	0	4
Washington	0	0	0	0	5	0	0	1
Pacific Noncontiguous	**0**	**8**	**0**	**24**	**12**	**0**	**0**	**7**
Alaska	0	0	0	0	30	0	0	18
Hawaii	0	8	0	24	13	0	0	2
U.S. Total	**0**	**2**	**0**	**2**	**1**	**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 May 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**32**	**45**	**0**	**3**	**0**	**0**	**9**
Connecticut	0	67	0	3	0	0	33
Maine	41	45	0	17	0	0	10
Massachusetts	0	98	0	6	0	0	21
New Hampshire	0	66	0	0	0	0	18
Rhode Island	0	365	0	12	0	0	0
Vermont	0	231	0	0	0	0	16
Middle Atlantic	**4**	**20**	**102**	**1**	**51**	**0**	**2**
New Jersey	0	13	0	3	0	0	77
New York	0	26	0	3	0	0	2
Pennsylvania	4	32	171	1	78	0	12
East North Central	**1**	**10**	**18**	**2**	**15**	**0**	**15**
Illinois	0	33	0	6	0	0	28
Indiana	1	5	0	3	30	0	25
Michigan	3	4	0	3	0	0	31
Ohio	2	20	118	2	39	0	23
Wisconsin	1	22	0	9	0	0	23
West North Central	**1**	**6**	**0**	**8**	**0**	**0**	**12**
Iowa	1	8	0	9	0	0	43
Kansas	2	4	0	17	0	0	0
Minnesota	5	27	0	15	0	0	36
Missouri	0	25	0	7	0	0	15
Nebraska	5	77	0	43	0	0	31
North Dakota	0	2	0	54	0	0	26
South Dakota	0	22	0	48	0	0	17
South Atlantic	**1**	**4**	**7**	**1**	**0**	**0**	**6**
Delaware	0	54	0	9	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	6	0	1	0	0	39
Georgia	0	25	72	4	0	0	11
Maryland	0	36	0	3	0	0	1
North Carolina	0	5	0	3	0	0	9
South Carolina	0	6	0	5	0	0	14
Virginia	5	5	0	4	0	0	14
West Virginia	2	0	0	17	0	0	16
East South Central	**0**	**11**	**0**	**1**	**106**	**0**	**5**
Alabama	0	82	0	2	437	0	6
Kentucky	0	8	0	3	0	0	10
Mississippi	0	16	0	2	0	0	0
Tennessee	0	8	0	7	0	0	7
West South Central	**0**	**7**	**0**	**1**	**5**	**0**	**7**
Arkansas	0	22	0	6	0	0	9
Louisiana	0	16	0	2	12	0	15
Oklahoma	0	2	0	3	0	0	10
Texas	0	9	0	2	4	0	15
Mountain	**1**	**3**	**0**	**1**	**0**	**0**	**7**
Arizona	0	1	0	2	0	0	8
Colorado	0	16	0	2	0	0	24
Idaho	154	0	0	39	0	0	13
Montana	10	6	0	52	0	0	12
Nevada	0	0	0	1	0	0	3
New Mexico	0	27	0	3	0	0	77
Utah	0	1	0	4	0	0	41
Wyoming	5	1	0	26	0	0	37
Pacific Contiguous	**0**	**8**	**0**	**2**	**2**	**0**	**2**
California	0	4	0	2	3	0	6
Oregon	0	0	0	17	0	0	5
Washington	0	57	0	17	0	0	1
Pacific Noncontiguous	**21**	**1**	**0**	**35**	**0**	**0**	**27**
Alaska	56	2	0	35	0	0	29
Hawaii	0	1	0	0	0	0	63
U.S. Total	**0**	**2**	**5**	**1**	**7**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through May 2018 (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**	**11**	**6**	**0**	**1**	**2**
Connecticut	0	0	0	41	17	0	0	1
Maine	0	0	0	134	8	0	0	6
Massachusetts	0	0	0	13	8	0	2	4
New Hampshire	0	0	0	0	21	0	0	3
Rhode Island	0	0	0	74	12	0	0	11
Vermont	0	0	0	38	20	0	0	12
Middle Atlantic	**0**	**0**	**0**	**11**	**4**	**0**	**1**	**1**
New Jersey	0	0	0	13	8	0	0	2
New York	0	0	0	24	5	0	2	1
Pennsylvania	0	0	0	46	5	0	0	1
East North Central	**0**	**0**	**0**	**15**	**3**	**0**	**3**	**1**
Illinois	0	0	0	38	4	0	0	1
Indiana	0	0	0	22	5	0	0	1
Michigan	0	0	0	30	6	0	10	1
Ohio	0	0	0	37	5	0	0	1
Wisconsin	0	0	0	70	8	0	45	2
West North Central	**0**	**0**	**0**	**10**	**3**	**0**	**5**	**1**
Iowa	0	0	0	114	4	0	0	2
Kansas	0	0	0	138	3	0	0	3
Minnesota	0	0	0	11	5	0	3	3
Missouri	0	0	0	41	7	0	0	1
Nebraska	0	0	0	84	7	0	0	4
North Dakota	0	0	0	0	5	0	48	3
South Dakota	0	0	0	316	12	0	0	10
South Atlantic	**0**	**0**	**0**	**4**	**2**	**0**	**1**	**1**
Delaware	0	0	0	56	36	0	0	8
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	4	3	0	1	1
Georgia	0	0	0	9	4	0	15	2
Maryland	0	0	0	17	9	0	0	1
North Carolina	0	0	0	5	4	0	0	1
South Carolina	0	0	0	17	5	0	0	1
Virginia	0	0	0	14	7	0	0	2
West Virginia	0	0	0	0	10	0	0	2
East South Central	**0**	**0**	**0**	**10**	**3**	**0**	**40**	**1**
Alabama	0	0	0	18	4	0	0	1
Kentucky	0	0	0	51	14	0	0	1
Mississippi	0	0	0	5	3	0	0	2
Tennessee	0	0	0	33	9	0	88	1
West South Central	**0**	**0**	**0**	**5**	**2**	**0**	**2**	**1**
Arkansas	0	0	0	5	4	0	0	2
Louisiana	0	0	0	302	4	0	2	1
Oklahoma	0	0	0	55	3	0	0	2
Texas	0	0	0	5	2	0	4	1
Mountain	**0**	**3**	**0**	**3**	**2**	**0**	**0**	**1**
Arizona	0	0	0	4	5	0	0	1
Colorado	0	0	0	13	4	0	0	2
Idaho	0	14	0	16	7	0	0	10
Montana	0	0	0	77	12	0	0	8
Nevada	0	3	0	4	3	0	0	1
New Mexico	0	0	0	12	4	0	0	2
Utah	0	6	0	10	7	0	0	2
Wyoming	0	0	0	0	8	0	0	4
Pacific Contiguous	**0**	**1**	**0**	**3**	**2**	**0**	**2**	**1**
California	0	1	0	3	2	0	2	2
Oregon	0	9	0	17	4	0	0	4
Washington	0	0	0	0	5	0	0	1
Pacific Noncontiguous	**0**	**8**	**0**	**24**	**12**	**0**	**0**	**7**
Alaska	0	0	0	0	30	0	0	18
Hawaii	0	8	0	24	13	0	0	2
U.S. Total	**0**	**2**	**0**	**2**	**1**	**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.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, May 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**1**	**.**	**0**
Connecticut	0	0	0	.	0
Maine	1	1	0	.	1
Massachusetts	0	0	2	.	0
New Hampshire	1	0	0	.	0
Rhode Island	1	0	0	.	0
Vermont	2	2	68	.	2
Middle Atlantic	**0**	**1**	**3**	**.**	**0**
New Jersey	0	1	4	.	1
New York	0	0	2	.	0
Pennsylvania	2	3	0	.	2
East North Central	**3**	**5**	**27**	**.**	**3**
Illinois	6	17	0	.	11
Indiana	7	5	0	.	4
Michigan	4	37	277	.	16
Ohio	5	6	63	.	5
Wisconsin	9	20	9	.	9
West North Central	**3**	**2**	**7**	**.**	**2**
Iowa	8	4	34	.	4
Kansas	13	9	0	.	8
Minnesota	8	8	6	.	5
Missouri	3	1	0	.	1
Nebraska	19	49	53	.	18
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	**1**	**2**	**3**	**.**	**1**
Delaware	5	5	22	.	3
District of Columbia	0	0	0	.	0
Florida	5	9	4	.	4
Georgia	110	178	0	.	94
Maryland	1	2	4	.	1
North Carolina	10	2	0	.	6
South Carolina	3	7	0	.	3
Virginia	12	11	14	.	9
West Virginia	0	0	0	.	0
East South Central	**7**	**37**	**0**	**.**	**15**
Alabama	0	0	0	.	0
Kentucky	9	43	0	.	16
Mississippi	11	88	0	.	42
Tennessee	0	0	0	.	0
West South Central	**4**	**9**	**0**	**.**	**4**
Arkansas	23	9	0	.	14
Louisiana	3	7	0	.	3
Oklahoma	22	4	0	.	14
Texas	8	11	0	.	7
Mountain	**1**	**0**	**0**	**.**	**0**
Arizona	1	0	0	.	0
Colorado	3	1	30	.	2
Idaho	3	2	0	.	2
Montana	14	6	0	.	10
Nevada	0	0	0	.	0
New Mexico	4	2	0	.	3
Utah	2	2	0	.	1
Wyoming	34	18	0	.	24
Pacific Contiguous	**0**	**1**	**0**	**.**	**0**
California	0	1	0	.	0
Oregon	2	5	11	.	2
Washington	2	18	81	.	3
Pacific Noncontiguous	**0**	**0**	**0**	**.**	**0**
Alaska	3	4	0	.	2
Hawaii	0	0	0	.	0
U.S. Total	**0**	**0**	**0**	**.**	**0**

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

Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, May 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**65**	**0**	**78**	**0**	**0**	**18**
Connecticut	0	108	0	0	0	0	34
Maine	0	0	0	0	0	0	0
Massachusetts	0	127	0	97	0	0	46
New Hampshire	0	106	0	0	0	0	31
Rhode Island	0	0	0	0	0	0	0
Vermont	0	249	0	0	0	0	25
Middle Atlantic	**0**	**73**	**0**	**8**	**0**	**0**	**1**
New Jersey	0	30	0	95	0	0	0
New York	0	74	0	8	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**10**	**0**	**4**	**0**	**0**	**17**
Illinois	0	128	0	4	0	0	49
Indiana	1	5	0	5	0	0	25
Michigan	3	5	0	8	0	0	32
Ohio	7	65	0	4	0	0	29
Wisconsin	1	23	0	10	0	0	25
West North Central	**1**	**6**	**0**	**9**	**0**	**0**	**12**
Iowa	1	8	0	9	0	0	43
Kansas	2	4	0	17	0	0	0
Minnesota	5	18	0	16	0	0	43
Missouri	0	25	0	11	0	0	15
Nebraska	5	77	0	43	0	0	31
North Dakota	0	2	0	54	0	0	26
South Dakota	0	22	0	48	0	0	17
South Atlantic	**0**	**2**	**0**	**1**	**0**	**0**	**7**
Delaware	0	0	0	0	0	0	0
Florida	0	3	0	1	0	0	39
Georgia	0	6	0	4	0	0	11
Maryland	0	18	0	0	0	0	0
North Carolina	0	2	0	3	0	0	9
South Carolina	0	7	0	6	0	0	13
Virginia	5	6	0	5	0	0	14
West Virginia	0	0	0	0	0	0	26
East South Central	**0**	**5**	**0**	**2**	**0**	**0**	**5**
Alabama	0	14	0	5	0	0	6
Kentucky	0	8	0	3	0	0	10
Mississippi	0	17	0	3	0	0	0
Tennessee	0	8	0	7	0	0	7
West South Central	**0**	**9**	**0**	**3**	**0**	**0**	**7**
Arkansas	0	23	0	12	0	0	9
Louisiana	0	16	0	3	0	0	0
Oklahoma	0	2	0	5	0	0	10
Texas	0	13	0	5	0	0	16
Mountain	**1**	**3**	**0**	**2**	**0**	**0**	**7**
Arizona	0	1	0	4	0	0	8
Colorado	0	16	0	2	0	0	26
Idaho	0	0	0	69	0	0	13
Montana	0	391	0	53	0	0	12
Nevada	0	0	0	1	0	0	0
New Mexico	0	27	0	4	0	0	77
Utah	0	1	0	4	0	0	41
Wyoming	5	1	0	66	0	0	37
Pacific Contiguous	**0**	**10**	**0**	**6**	**0**	**0**	**2**
California	0	10	0	4	0	0	5
Oregon	0	0	0	33	0	0	5
Washington	0	318	0	21	0	0	1
Pacific Noncontiguous	**106**	**1**	**0**	**36**	**0**	**0**	**30**
Alaska	106	3	0	36	0	0	30
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**1**	**0**	**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.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, May 2018 (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**	**50**	**22**	**0**	**0**	**16**
Connecticut	0	0	0	0	0	0	0	17
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	88	52	0	0	42
New Hampshire	0	0	0	0	0	0	0	24
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	65	32	0	0	20
Middle Atlantic	**0**	**0**	**0**	**44**	**44**	**0**	**0**	**2**
New Jersey	0	0	0	44	44	0	0	26
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**24**	**9**	**0**	**4**	**1**
Illinois	0	0	0	0	37	0	0	2
Indiana	0	0	0	37	20	0	0	1
Michigan	0	0	0	31	11	0	0	2
Ohio	0	0	0	137	92	0	0	4
Wisconsin	0	0	0	0	16	0	34	3
West North Central	**0**	**0**	**0**	**83**	**4**	**0**	**7**	**1**
Iowa	0	0	0	125	4	0	0	2
Kansas	0	0	0	316	11	0	0	4
Minnesota	0	0	0	209	10	0	0	4
Missouri	0	0	0	0	57	0	0	1
Nebraska	0	0	0	0	27	0	0	5
North Dakota	0	0	0	0	9	0	48	3
South Dakota	0	0	0	0	19	0	0	11
South Atlantic	**0**	**0**	**0**	**5**	**7**	**0**	**0**	**1**
Delaware	0	0	0	151	151	0	0	78
Florida	0	0	0	3	2	0	0	1
Georgia	0	0	0	20	20	0	0	1
Maryland	0	0	0	136	136	0	0	0
North Carolina	0	0	0	21	21	0	0	1
South Carolina	0	0	0	0	9	0	0	1
Virginia	0	0	0	28	19	0	0	2
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**44**	**30**	**0**	**0**	**1**
Alabama	0	0	0	75	75	0	0	1
Kentucky	0	0	0	52	32	0	0	1
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**51**	**11**	**0**	**0**	**2**
Arkansas	0	0	0	316	316	0	0	3
Louisiana	0	0	0	302	302	0	0	2
Oklahoma	0	0	0	55	11	0	0	3
Texas	0	0	0	183	38	0	0	3
Mountain	**0**	**8**	**0**	**12**	**8**	**0**	**0**	**1**
Arizona	0	0	0	14	14	0	0	1
Colorado	0	0	0	189	35	0	0	2
Idaho	0	0	0	0	37	0	0	13
Montana	0	0	0	0	35	0	0	12
Nevada	0	0	0	0	0	0	0	1
New Mexico	0	0	0	25	25	0	0	2
Utah	0	8	0	0	8	0	0	2
Wyoming	0	0	0	0	12	0	0	5
Pacific Contiguous	**0**	**0**	**0**	**18**	**4**	**0**	**0**	**1**
California	0	0	0	18	6	0	0	2
Oregon	0	0	0	166	4	0	0	5
Washington	0	0	0	0	8	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**31**	**0**	**0**	**10**
Alaska	0	0	0	0	48	0	0	20
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**2**	**0**	**5**	**3**	**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 May 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**65**	**0**	**78**	**0**	**0**	**18**
Connecticut	0	108	0	0	0	0	34
Maine	0	0	0	0	0	0	0
Massachusetts	0	127	0	97	0	0	46
New Hampshire	0	106	0	0	0	0	31
Rhode Island	0	0	0	0	0	0	0
Vermont	0	249	0	0	0	0	25
Middle Atlantic	**0**	**73**	**0**	**8**	**0**	**0**	**1**
New Jersey	0	30	0	95	0	0	0
New York	0	74	0	8	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**10**	**0**	**4**	**0**	**0**	**17**
Illinois	0	128	0	4	0	0	49
Indiana	1	5	0	5	0	0	25
Michigan	3	5	0	8	0	0	32
Ohio	7	65	0	4	0	0	29
Wisconsin	1	23	0	10	0	0	25
West North Central	**1**	**6**	**0**	**9**	**0**	**0**	**12**
Iowa	1	8	0	9	0	0	43
Kansas	2	4	0	17	0	0	0
Minnesota	5	18	0	16	0	0	43
Missouri	0	25	0	11	0	0	15
Nebraska	5	77	0	43	0	0	31
North Dakota	0	2	0	54	0	0	26
South Dakota	0	22	0	48	0	0	17
South Atlantic	**0**	**2**	**0**	**1**	**0**	**0**	**7**
Delaware	0	0	0	0	0	0	0
Florida	0	3	0	1	0	0	39
Georgia	0	6	0	4	0	0	11
Maryland	0	18	0	0	0	0	0
North Carolina	0	2	0	3	0	0	9
South Carolina	0	7	0	6	0	0	13
Virginia	5	6	0	5	0	0	14
West Virginia	0	0	0	0	0	0	26
East South Central	**0**	**5**	**0**	**2**	**0**	**0**	**5**
Alabama	0	14	0	5	0	0	6
Kentucky	0	8	0	3	0	0	10
Mississippi	0	17	0	3	0	0	0
Tennessee	0	8	0	7	0	0	7
West South Central	**0**	**9**	**0**	**3**	**0**	**0**	**7**
Arkansas	0	23	0	12	0	0	9
Louisiana	0	16	0	3	0	0	0
Oklahoma	0	2	0	5	0	0	10
Texas	0	13	0	5	0	0	16
Mountain	**1**	**3**	**0**	**2**	**0**	**0**	**7**
Arizona	0	1	0	4	0	0	8
Colorado	0	16	0	2	0	0	26
Idaho	0	0	0	69	0	0	13
Montana	0	391	0	53	0	0	12
Nevada	0	0	0	1	0	0	0
New Mexico	0	27	0	4	0	0	77
Utah	0	1	0	4	0	0	41
Wyoming	5	1	0	66	0	0	37
Pacific Contiguous	**0**	**10**	**0**	**6**	**0**	**0**	**2**
California	0	10	0	4	0	0	5
Oregon	0	0	0	33	0	0	5
Washington	0	318	0	21	0	0	1
Pacific Noncontiguous	**106**	**1**	**0**	**36**	**0**	**0**	**30**
Alaska	106	3	0	36	0	0	30
Hawaii	0	1	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**1**	**0**	**0**	**2**

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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 May 2018 (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**	**50**	**22**	**0**	**0**	**16**
Connecticut	0	0	0	0	0	0	0	17
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	88	52	0	0	42
New Hampshire	0	0	0	0	0	0	0	24
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	65	32	0	0	20
Middle Atlantic	**0**	**0**	**0**	**44**	**44**	**0**	**0**	**2**
New Jersey	0	0	0	44	44	0	0	26
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**24**	**9**	**0**	**4**	**1**
Illinois	0	0	0	0	37	0	0	2
Indiana	0	0	0	37	20	0	0	1
Michigan	0	0	0	31	11	0	0	2
Ohio	0	0	0	137	92	0	0	4
Wisconsin	0	0	0	0	16	0	34	3
West North Central	**0**	**0**	**0**	**83**	**4**	**0**	**7**	**1**
Iowa	0	0	0	125	4	0	0	2
Kansas	0	0	0	316	11	0	0	4
Minnesota	0	0	0	209	10	0	0	4
Missouri	0	0	0	0	57	0	0	1
Nebraska	0	0	0	0	27	0	0	5
North Dakota	0	0	0	0	9	0	48	3
South Dakota	0	0	0	0	19	0	0	11
South Atlantic	**0**	**0**	**0**	**5**	**7**	**0**	**0**	**1**
Delaware	0	0	0	151	151	0	0	78
Florida	0	0	0	3	2	0	0	1
Georgia	0	0	0	20	20	0	0	1
Maryland	0	0	0	136	136	0	0	0
North Carolina	0	0	0	21	21	0	0	1
South Carolina	0	0	0	0	9	0	0	1
Virginia	0	0	0	28	19	0	0	2
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**44**	**30**	**0**	**0**	**1**
Alabama	0	0	0	75	75	0	0	1
Kentucky	0	0	0	52	32	0	0	1
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**51**	**11**	**0**	**0**	**2**
Arkansas	0	0	0	316	316	0	0	3
Louisiana	0	0	0	302	302	0	0	2
Oklahoma	0	0	0	55	11	0	0	3
Texas	0	0	0	183	38	0	0	3
Mountain	**0**	**8**	**0**	**12**	**8**	**0**	**0**	**1**
Arizona	0	0	0	14	14	0	0	1
Colorado	0	0	0	189	35	0	0	2
Idaho	0	0	0	0	37	0	0	13
Montana	0	0	0	0	35	0	0	12
Nevada	0	0	0	0	0	0	0	1
New Mexico	0	0	0	25	25	0	0	2
Utah	0	8	0	0	8	0	0	2
Wyoming	0	0	0	0	12	0	0	5
Pacific Contiguous	**0**	**0**	**0**	**18**	**4**	**0**	**0**	**1**
California	0	0	0	18	6	0	0	2
Oregon	0	0	0	166	4	0	0	5
Washington	0	0	0	0	8	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**31**	**0**	**0**	**10**
Alaska	0	0	0	0	48	0	0	20
Hawaii	0	0	0	0	0	0	0	1
U.S. Total	**0**	**2**	**0**	**5**	**3**	**0**	**3**	**0**

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

Independent Power Producers by Census Division and State, May 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**66**	**0**	**3**	**0**	**0**	**9**
Connecticut	0	72	0	2	0	0	37
Maine	0	102	0	19	0	0	11
Massachusetts	0	205	0	6	0	0	23
New Hampshire	0	616	0	0	0	0	21
Rhode Island	0	370	0	12	0	0	0
Vermont	0	0	0	0	0	0	20
Middle Atlantic	**4**	**14**	**0**	**1**	**0**	**0**	**10**
New Jersey	0	13	0	3	0	0	77
New York	0	19	0	3	0	0	9
Pennsylvania	4	34	0	1	0	0	12
East North Central	**0**	**17**	**137**	**2**	**13**	**0**	**40**
Illinois	0	32	0	8	0	0	34
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	2	0	0	116
Ohio	1	20	137	2	56	0	39
Wisconsin	0	0	0	0	0	0	114
West North Central	**0**	**104**	**0**	**11**	**0**	**0**	**74**
Iowa	0	17	0	2,050	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	134	0	33	0	0	84
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**18**	**0**	**3**	**0**	**0**	**4**
Delaware	0	56	0	10	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	10	0	9	0	0	0
Georgia	0	64	0	9	0	0	66
Maryland	0	38	0	5	0	0	1
North Carolina	0	59	0	11	0	0	52
South Carolina	0	0	0	5	0	0	61
Virginia	0	6	0	3	0	0	40
West Virginia	6	0	0	23	0	0	28
East South Central	**0**	**50**	**0**	**0**	**0**	**0**	**165**
Alabama	0	64	0	1	0	0	0
Kentucky	0	0	0	0	0	0	165
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**11**	**0**	**1**	**0**	**0**	**14**
Arkansas	0	0	0	0	0	0	52
Louisiana	0	0	0	7	0	0	15
Oklahoma	0	0	0	0	0	0	0
Texas	0	11	0	2	0	0	0
Mountain	**8**	**3**	**0**	**3**	**0**	**0**	**32**
Arizona	0	0	0	1	0	0	0
Colorado	0	0	0	11	0	0	73
Idaho	0	0	0	53	0	0	41
Montana	10	4	0	131	0	0	101
Nevada	0	0	0	0	0	0	113
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**13**	**0**	**3**	**0**	**0**	**25**
California	0	0	0	2	0	0	31
Oregon	0	0	0	8	0	0	71
Washington	0	52	0	28	0	0	57
Pacific Noncontiguous	**10**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	60	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**5**	**45**	**1**	**7**	**0**	**7**

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

Independent Power Producers by Census Division and State, May 2018 (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**	**7**	**0**	**1**	**2**
Connecticut	0	0	0	43	18	0	0	1
Maine	0	0	0	134	10	0	0	7
Massachusetts	0	0	0	13	8	0	2	4
New Hampshire	0	0	0	0	22	0	0	3
Rhode Island	0	0	0	74	12	0	0	11
Vermont	0	0	0	47	26	0	0	16
Middle Atlantic	**0**	**0**	**0**	**12**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	15	9	0	0	2
New York	0	0	0	25	5	0	0	1
Pennsylvania	0	0	0	52	6	0	0	1
East North Central	**0**	**0**	**0**	**20**	**3**	**0**	**18**	**0**
Illinois	0	0	0	39	4	0	0	1
Indiana	0	0	0	28	5	0	0	2
Michigan	0	0	0	92	8	0	27	2
Ohio	0	0	0	40	5	0	0	1
Wisconsin	0	0	0	70	10	0	0	2
West North Central	**0**	**0**	**0**	**11**	**3**	**0**	**0**	**3**
Iowa	0	0	0	278	7	0	0	4
Kansas	0	0	0	151	4	0	0	4
Minnesota	0	0	0	11	5	0	0	6
Missouri	0	0	0	44	7	0	0	3
Nebraska	0	0	0	84	7	0	0	7
North Dakota	0	0	0	0	5	0	0	5
South Dakota	0	0	0	316	13	0	0	13
South Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**2**
Delaware	0	0	0	61	42	0	0	9
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	16	6	0	2	6
Georgia	0	0	0	9	8	0	0	8
Maryland	0	0	0	17	10	0	0	1
North Carolina	0	0	0	5	4	0	0	5
South Carolina	0	0	0	17	17	0	0	6
Virginia	0	0	0	16	10	0	0	3
West Virginia	0	0	0	0	10	0	0	5
East South Central	**0**	**0**	**0**	**10**	**9**	**0**	**0**	**1**
Alabama	0	0	0	19	13	0	0	1
Kentucky	0	0	0	302	97	0	0	4
Mississippi	0	0	0	5	6	0	0	0
Tennessee	0	0	0	34	25	0	0	24
West South Central	**0**	**0**	**0**	**5**	**2**	**0**	**0**	**1**
Arkansas	0	0	0	3	10	0	0	0
Louisiana	0	0	0	0	40	0	0	4
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	5	2	0	0	1
Mountain	**0**	**3**	**0**	**3**	**2**	**0**	**0**	**2**
Arizona	0	0	0	4	5	0	0	2
Colorado	0	0	0	14	4	0	0	4
Idaho	0	14	0	16	9	0	0	14
Montana	0	0	0	77	12	0	0	8
Nevada	0	3	0	4	3	0	0	2
New Mexico	0	0	0	13	4	0	0	3
Utah	0	9	0	10	8	0	0	7
Wyoming	0	0	0	0	11	0	0	8
Pacific Contiguous	**0**	**1**	**0**	**3**	**2**	**0**	**0**	**2**
California	0	1	0	3	2	0	0	2
Oregon	0	9	0	17	5	0	0	5
Washington	0	0	0	0	9	0	0	10
Pacific Noncontiguous	**0**	**8**	**0**	**29**	**15**	**0**	**0**	**6**
Alaska	0	0	0	0	67	0	0	50
Hawaii	0	8	0	29	16	0	0	5
U.S. Total	**0**	**2**	**0**	**2**	**1**	**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.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, Year-to-Date through May 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**66**	**0**	**3**	**0**	**0**	**9**
Connecticut	0	72	0	2	0	0	37
Maine	0	102	0	19	0	0	11
Massachusetts	0	205	0	6	0	0	23
New Hampshire	0	616	0	0	0	0	21
Rhode Island	0	370	0	12	0	0	0
Vermont	0	0	0	0	0	0	20
Middle Atlantic	**4**	**14**	**0**	**1**	**0**	**0**	**10**
New Jersey	0	13	0	3	0	0	77
New York	0	19	0	3	0	0	9
Pennsylvania	4	34	0	1	0	0	12
East North Central	**0**	**17**	**137**	**2**	**13**	**0**	**40**
Illinois	0	32	0	8	0	0	34
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	2	0	0	116
Ohio	1	20	137	2	56	0	39
Wisconsin	0	0	0	0	0	0	114
West North Central	**0**	**104**	**0**	**11**	**0**	**0**	**74**
Iowa	0	17	0	2,050	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	134	0	33	0	0	84
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**3**	**18**	**0**	**3**	**0**	**0**	**4**
Delaware	0	56	0	10	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	10	0	9	0	0	0
Georgia	0	64	0	9	0	0	66
Maryland	0	38	0	5	0	0	1
North Carolina	0	59	0	11	0	0	52
South Carolina	0	0	0	5	0	0	61
Virginia	0	6	0	3	0	0	40
West Virginia	6	0	0	23	0	0	28
East South Central	**0**	**50**	**0**	**0**	**0**	**0**	**165**
Alabama	0	64	0	1	0	0	0
Kentucky	0	0	0	0	0	0	165
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**11**	**0**	**1**	**0**	**0**	**14**
Arkansas	0	0	0	0	0	0	52
Louisiana	0	0	0	7	0	0	15
Oklahoma	0	0	0	0	0	0	0
Texas	0	11	0	2	0	0	0
Mountain	**8**	**3**	**0**	**3**	**0**	**0**	**32**
Arizona	0	0	0	1	0	0	0
Colorado	0	0	0	11	0	0	73
Idaho	0	0	0	53	0	0	41
Montana	10	4	0	131	0	0	101
Nevada	0	0	0	0	0	0	113
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**13**	**0**	**3**	**0**	**0**	**25**
California	0	0	0	2	0	0	31
Oregon	0	0	0	8	0	0	71
Washington	0	52	0	28	0	0	57
Pacific Noncontiguous	**10**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	60	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**5**	**45**	**1**	**7**	**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 May 2018 (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**	**7**	**0**	**1**	**2**
Connecticut	0	0	0	43	18	0	0	1
Maine	0	0	0	134	10	0	0	7
Massachusetts	0	0	0	13	8	0	2	4
New Hampshire	0	0	0	0	22	0	0	3
Rhode Island	0	0	0	74	12	0	0	11
Vermont	0	0	0	47	26	0	0	16
Middle Atlantic	**0**	**0**	**0**	**12**	**4**	**0**	**0**	**1**
New Jersey	0	0	0	15	9	0	0	2
New York	0	0	0	25	5	0	0	1
Pennsylvania	0	0	0	52	6	0	0	1
East North Central	**0**	**0**	**0**	**20**	**3**	**0**	**18**	**0**
Illinois	0	0	0	39	4	0	0	1
Indiana	0	0	0	28	5	0	0	2
Michigan	0	0	0	92	8	0	27	2
Ohio	0	0	0	40	5	0	0	1
Wisconsin	0	0	0	70	10	0	0	2
West North Central	**0**	**0**	**0**	**11**	**3**	**0**	**0**	**3**
Iowa	0	0	0	278	7	0	0	4
Kansas	0	0	0	151	4	0	0	4
Minnesota	0	0	0	11	5	0	0	6
Missouri	0	0	0	44	7	0	0	3
Nebraska	0	0	0	84	7	0	0	7
North Dakota	0	0	0	0	5	0	0	5
South Dakota	0	0	0	316	13	0	0	13
South Atlantic	**0**	**0**	**0**	**4**	**3**	**0**	**1**	**2**
Delaware	0	0	0	61	42	0	0	9
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	16	6	0	2	6
Georgia	0	0	0	9	8	0	0	8
Maryland	0	0	0	17	10	0	0	1
North Carolina	0	0	0	5	4	0	0	5
South Carolina	0	0	0	17	17	0	0	6
Virginia	0	0	0	16	10	0	0	3
West Virginia	0	0	0	0	10	0	0	5
East South Central	**0**	**0**	**0**	**10**	**9**	**0**	**0**	**1**
Alabama	0	0	0	19	13	0	0	1
Kentucky	0	0	0	302	97	0	0	4
Mississippi	0	0	0	5	6	0	0	0
Tennessee	0	0	0	34	25	0	0	24
West South Central	**0**	**0**	**0**	**5**	**2**	**0**	**0**	**1**
Arkansas	0	0	0	3	10	0	0	0
Louisiana	0	0	0	0	40	0	0	4
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	5	2	0	0	1
Mountain	**0**	**3**	**0**	**3**	**2**	**0**	**0**	**2**
Arizona	0	0	0	4	5	0	0	2
Colorado	0	0	0	14	4	0	0	4
Idaho	0	14	0	16	9	0	0	14
Montana	0	0	0	77	12	0	0	8
Nevada	0	3	0	4	3	0	0	2
New Mexico	0	0	0	13	4	0	0	3
Utah	0	9	0	10	8	0	0	7
Wyoming	0	0	0	0	11	0	0	8
Pacific Contiguous	**0**	**1**	**0**	**3**	**2**	**0**	**0**	**2**
California	0	1	0	3	2	0	0	2
Oregon	0	9	0	17	5	0	0	5
Washington	0	0	0	0	9	0	0	10
Pacific Noncontiguous	**0**	**8**	**0**	**29**	**15**	**0**	**0**	**6**
Alaska	0	0	0	0	67	0	0	50
Hawaii	0	8	0	29	16	0	0	5
U.S. Total	**0**	**2**	**0**	**2**	**1**	**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.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, May 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**51**	**0**	**37**	**0**	**0**	**0**
Connecticut	0	3,939	0	66	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	84	0	53	0	0	0
New Hampshire	0	3	0	0	0	0	0
Rhode Island	0	0	0	117	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**153**	**0**	**30**	**0**	**0**	**0**
New Jersey	0	0	0	29	0	0	0
New York	0	254	0	44	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**0**	**28**	**0**	**10**	**0**	**0**	**0**
Illinois	0	410	0	47	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	1	0	13	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	20	0	0	0
West North Central	**0**	**15**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	16	0	0	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	782	0	0	0	0	0
South Atlantic	**0**	**0**	**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	10	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**	**50**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	50	0	0	0
West South Central	**0**	**5**	**0**	**29**	**0**	**0**	**454**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	38	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	5	0	34	0	0	454
Mountain	**0**	**0**	**0**	**11**	**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	58	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**17**	**0**	**3**	**0**	**0**	**181**
California	0	23	0	3	0	0	181
Oregon	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**53**	**10**	**0**	**0**	**0**	**0**	**89**
Alaska	53	117	0	0	0	0	89
Hawaii	0	0	0	0	0	0	0
U.S. Total	**22**	**20**	**0**	**6**	**0**	**0**	**71**

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

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, May 2018 (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**	**114**	**10**	**0**	**0**	**28**
Connecticut	0	0	0	354	354	0	0	66
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	111	23	0	0	44
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	104
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**32**	**9**	**0**	**4**	**12**
New Jersey	0	0	0	33	18	0	0	12
New York	0	0	0	147	7	0	7	22
Pennsylvania	0	0	0	148	13	0	0	6
East North Central	**0**	**0**	**0**	**171**	**7**	**0**	**0**	**7**
Illinois	0	0	0	224	162	0	0	41
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	8
Ohio	0	0	0	266	79	0	0	3
Wisconsin	0	0	0	0	19	0	0	15
West North Central	**0**	**0**	**0**	**0**	**23**	**0**	**55**	**7**
Iowa	0	0	0	0	30	0	0	7
Kansas	0	0	0	0	176	0	0	176
Minnesota	0	0	0	0	47	0	55	17
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	782
South Atlantic	**0**	**0**	**0**	**34**	**13**	**0**	**0**	**4**
Delaware	0	0	0	344	137	0	0	137
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	164	35	0	0	26
Georgia	0	0	0	237	237	0	0	160
Maryland	0	0	0	153	44	0	0	2
North Carolina	0	0	0	36	34	0	0	27
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**	**185**	**185**	**0**	**0**	**49**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	185	185	0	0	49
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**25**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	38
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	29
Mountain	**0**	**0**	**0**	**41**	**37**	**0**	**0**	**13**
Arizona	0	0	0	82	82	0	0	13
Colorado	0	0	0	102	100	0	0	65
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	52	52	0	0	30
New Mexico	0	0	0	0	339	0	0	58
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**33**	**9**	**0**	**0**	**4**
California	0	0	0	33	9	0	0	4
Oregon	0	0	0	0	39	0	0	16
Washington	0	0	0	0	68	0	0	32
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**27**
Alaska	0	0	0	0	0	0	0	56
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**17**	**5**	**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 May 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**51**	**0**	**37**	**0**	**0**	**0**
Connecticut	0	3,939	0	66	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	84	0	53	0	0	0
New Hampshire	0	3	0	0	0	0	0
Rhode Island	0	0	0	117	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**153**	**0**	**30**	**0**	**0**	**0**
New Jersey	0	0	0	29	0	0	0
New York	0	254	0	44	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	**0**	**28**	**0**	**10**	**0**	**0**	**0**
Illinois	0	410	0	47	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	1	0	13	0	0	0
Ohio	0	0	0	0	0	0	0
Wisconsin	0	0	0	20	0	0	0
West North Central	**0**	**15**	**0**	**0**	**0**	**0**	**0**
Iowa	0	0	0	0	0	0	0
Minnesota	0	16	0	0	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	782	0	0	0	0	0
South Atlantic	**0**	**0**	**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	10	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**	**50**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	50	0	0	0
West South Central	**0**	**5**	**0**	**29**	**0**	**0**	**454**
Arkansas	0	0	0	0	0	0	0
Louisiana	0	0	0	38	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	5	0	34	0	0	454
Mountain	**0**	**0**	**0**	**11**	**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	58	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**17**	**0**	**3**	**0**	**0**	**181**
California	0	23	0	3	0	0	181
Oregon	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**53**	**10**	**0**	**0**	**0**	**0**	**89**
Alaska	53	117	0	0	0	0	89
Hawaii	0	0	0	0	0	0	0
U.S. Total	**22**	**20**	**0**	**6**	**0**	**0**	**71**

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

Table A.4.B. Relative Standard Error for Net Generation by Fuel Type:

Commercial Sector by Census Division and State, Year-to-Date through May 2018 (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**	**114**	**10**	**0**	**0**	**28**
Connecticut	0	0	0	354	354	0	0	66
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	111	23	0	0	44
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	104
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**32**	**9**	**0**	**4**	**12**
New Jersey	0	0	0	33	18	0	0	12
New York	0	0	0	147	7	0	7	22
Pennsylvania	0	0	0	148	13	0	0	6
East North Central	**0**	**0**	**0**	**171**	**7**	**0**	**0**	**7**
Illinois	0	0	0	224	162	0	0	41
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	8
Ohio	0	0	0	266	79	0	0	3
Wisconsin	0	0	0	0	19	0	0	15
West North Central	**0**	**0**	**0**	**0**	**23**	**0**	**55**	**7**
Iowa	0	0	0	0	30	0	0	7
Kansas	0	0	0	0	176	0	0	176
Minnesota	0	0	0	0	47	0	55	17
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	782
South Atlantic	**0**	**0**	**0**	**34**	**13**	**0**	**0**	**4**
Delaware	0	0	0	344	137	0	0	137
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	164	35	0	0	26
Georgia	0	0	0	237	237	0	0	160
Maryland	0	0	0	153	44	0	0	2
North Carolina	0	0	0	36	34	0	0	27
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**	**185**	**185**	**0**	**0**	**49**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	185	185	0	0	49
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**25**
Arkansas	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	38
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	0	0	0	29
Mountain	**0**	**0**	**0**	**41**	**37**	**0**	**0**	**13**
Arizona	0	0	0	82	82	0	0	13
Colorado	0	0	0	102	100	0	0	65
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	52	52	0	0	30
New Mexico	0	0	0	0	339	0	0	58
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**33**	**9**	**0**	**0**	**4**
California	0	0	0	33	9	0	0	4
Oregon	0	0	0	0	39	0	0	16
Washington	0	0	0	0	68	0	0	32
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**27**
Alaska	0	0	0	0	0	0	0	56
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**17**	**5**	**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, May 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**162**	**47**	**0**	**17**	**0**	**0**	**25**
Connecticut	0	0	0	29	0	0	0
Maine	162	49	0	33	0	0	26
Massachusetts	0	0	0	17	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Middle Atlantic	**44**	**16**	**102**	**18**	**51**	**0**	**23**
New Jersey	0	0	0	28	0	0	0
New York	0	0	0	11	0	0	23
Pennsylvania	44	104	171	33	78	0	0
East North Central	**8**	**8**	**0**	**10**	**26**	**0**	**62**
Illinois	8	0	0	34	0	0	0
Indiana	0	1	0	12	30	0	0
Michigan	26	1,627	0	24	0	0	144
Ohio	131	0	0	9	0	0	0
Wisconsin	33	112	0	20	0	0	67
West North Central	**5**	**0**	**0**	**5**	**0**	**0**	**79**
Iowa	3	0	0	0	0	0	0
Kansas	0	0	0	54	0	0	0
Minnesota	22	0	0	0	0	0	79
Missouri	0	0	0	0	0	0	0
Nebraska	10	0	0	0	0	0	0
North Dakota	81	0	0	0	0	0	0
South Atlantic	**17**	**65**	**72**	**7**	**0**	**0**	**23**
Delaware	0	0	0	0	0	0	0
Florida	47	120	0	13	0	0	0
Georgia	64	124	72	20	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	11	142	0	47	0	0	409
South Carolina	0	0	0	3	0	0	0
Virginia	21	406	0	8	0	0	0
West Virginia	0	0	0	0	0	0	23
East South Central	**4**	**118**	**0**	**10**	**106**	**0**	**0**
Alabama	45	130	0	16	437	0	0
Kentucky	0	0	0	62	0	0	0
Mississippi	0	0	0	25	0	0	0
Tennessee	0	0	0	12	0	0	0
West South Central	**0**	**0**	**0**	**2**	**9**	**0**	**0**
Arkansas	0	0	0	21	0	0	0
Louisiana	0	0	0	2	12	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	2	10	0	0
Mountain	**28**	**0**	**0**	**8**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	154	0	0	73	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	29	0	0	14	0	0	0
Pacific Contiguous	**0**	**13**	**0**	**1**	**3**	**0**	**0**
California	0	1	0	1	3	0	0
Oregon	0	0	0	55	0	0	0
Washington	0	72	0	59	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**164**
Alaska	0	15	0	0	0	0	0
Hawaii	0	0	0	0	0	0	164
U.S. Total	**4**	**12**	**15**	**1**	**10**	**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, May 2018 (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**	**1,001**	**7**	**0**	**0**	**8**
Connecticut	0	0	0	1,001	1,001	0	0	29
Maine	0	0	0	0	7	0	0	9
Massachusetts	0	0	0	0	0	0	0	16
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**100**	**8**	**0**	**0**	**13**
New Jersey	0	0	0	143	143	0	0	16
New York	0	0	0	0	20	0	0	9
Pennsylvania	0	0	0	140	8	0	0	20
East North Central	**0**	**0**	**0**	**0**	**5**	**0**	**4**	**7**
Illinois	0	0	0	0	0	0	0	9
Indiana	0	0	0	0	33	0	0	16
Michigan	0	0	0	0	8	0	0	10
Ohio	0	0	0	0	17	0	0	6
Wisconsin	0	0	0	0	8	0	65	12
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	49
Minnesota	0	0	0	0	0	0	0	10
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	10
North Dakota	0	0	0	0	0	0	0	48
South Atlantic	**0**	**0**	**0**	**230**	**2**	**0**	**1**	**2**
Delaware	0	0	0	0	76	0	0	1
Florida	0	0	0	230	5	0	1	5
Georgia	0	0	0	0	4	0	15	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	4	0	0	5
South Carolina	0	0	0	0	2	0	0	2
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	18
East South Central	**0**	**0**	**0**	**183**	**3**	**0**	**88**	**3**
Alabama	0	0	0	0	4	0	0	5
Kentucky	0	0	0	0	15	0	0	18
Mississippi	0	0	0	0	3	0	0	6
Tennessee	0	0	0	183	6	0	88	4
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**2**	**1**
Arkansas	0	0	0	0	4	0	0	5
Louisiana	0	0	0	0	4	0	2	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	10	0	5	2
Mountain	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**6**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	2	0	0	14
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	11
Pacific Contiguous	**0**	**0**	**0**	**71**	**5**	**0**	**3**	**1**
California	0	0	0	71	9	0	3	1
Oregon	0	0	0	0	13	0	0	14
Washington	0	0	0	0	7	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**118**	**0**	**0**	**20**
Alaska	0	0	0	0	118	0	0	4
Hawaii	0	0	0	0	0	0	0	25
U.S. Total	**0**	**0**	**0**	**50**	**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 May 2018

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**162**	**47**	**0**	**17**	**0**	**0**	**25**
Connecticut	0	0	0	29	0	0	0
Maine	162	49	0	33	0	0	26
Massachusetts	0	0	0	17	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Middle Atlantic	**44**	**16**	**102**	**18**	**51**	**0**	**23**
New Jersey	0	0	0	28	0	0	0
New York	0	0	0	11	0	0	23
Pennsylvania	44	104	171	33	78	0	0
East North Central	**8**	**8**	**0**	**10**	**26**	**0**	**62**
Illinois	8	0	0	34	0	0	0
Indiana	0	1	0	12	30	0	0
Michigan	26	1,627	0	24	0	0	144
Ohio	131	0	0	9	0	0	0
Wisconsin	33	112	0	20	0	0	67
West North Central	**5**	**0**	**0**	**5**	**0**	**0**	**79**
Iowa	3	0	0	0	0	0	0
Kansas	0	0	0	54	0	0	0
Minnesota	22	0	0	0	0	0	79
Missouri	0	0	0	0	0	0	0
Nebraska	10	0	0	0	0	0	0
North Dakota	81	0	0	0	0	0	0
South Atlantic	**17**	**65**	**72**	**7**	**0**	**0**	**23**
Delaware	0	0	0	0	0	0	0
Florida	47	120	0	13	0	0	0
Georgia	64	124	72	20	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	11	142	0	47	0	0	409
South Carolina	0	0	0	3	0	0	0
Virginia	21	406	0	8	0	0	0
West Virginia	0	0	0	0	0	0	23
East South Central	**4**	**118**	**0**	**10**	**106**	**0**	**0**
Alabama	45	130	0	16	437	0	0
Kentucky	0	0	0	62	0	0	0
Mississippi	0	0	0	25	0	0	0
Tennessee	0	0	0	12	0	0	0
West South Central	**0**	**0**	**0**	**2**	**9**	**0**	**0**
Arkansas	0	0	0	21	0	0	0
Louisiana	0	0	0	2	12	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	2	10	0	0
Mountain	**28**	**0**	**0**	**8**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	154	0	0	73	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	29	0	0	14	0	0	0
Pacific Contiguous	**0**	**13**	**0**	**1**	**3**	**0**	**0**
California	0	1	0	1	3	0	0
Oregon	0	0	0	55	0	0	0
Washington	0	72	0	59	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**164**
Alaska	0	15	0	0	0	0	0
Hawaii	0	0	0	0	0	0	164
U.S. Total	**4**	**12**	**15**	**1**	**10**	**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 May 2018 (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**	**1,001**	**7**	**0**	**0**	**8**
Connecticut	0	0	0	1,001	1,001	0	0	29
Maine	0	0	0	0	7	0	0	9
Massachusetts	0	0	0	0	0	0	0	16
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**100**	**8**	**0**	**0**	**13**
New Jersey	0	0	0	143	143	0	0	16
New York	0	0	0	0	20	0	0	9
Pennsylvania	0	0	0	140	8	0	0	20
East North Central	**0**	**0**	**0**	**0**	**5**	**0**	**4**	**7**
Illinois	0	0	0	0	0	0	0	9
Indiana	0	0	0	0	33	0	0	16
Michigan	0	0	0	0	8	0	0	10
Ohio	0	0	0	0	17	0	0	6
Wisconsin	0	0	0	0	8	0	65	12
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	49
Minnesota	0	0	0	0	0	0	0	10
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	10
North Dakota	0	0	0	0	0	0	0	48
South Atlantic	**0**	**0**	**0**	**230**	**2**	**0**	**1**	**2**
Delaware	0	0	0	0	76	0	0	1
Florida	0	0	0	230	5	0	1	5
Georgia	0	0	0	0	4	0	15	5
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	4	0	0	5
South Carolina	0	0	0	0	2	0	0	2
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	18
East South Central	**0**	**0**	**0**	**183**	**3**	**0**	**88**	**3**
Alabama	0	0	0	0	4	0	0	5
Kentucky	0	0	0	0	15	0	0	18
Mississippi	0	0	0	0	3	0	0	6
Tennessee	0	0	0	183	6	0	88	4
West South Central	**0**	**0**	**0**	**0**	**3**	**0**	**2**	**1**
Arkansas	0	0	0	0	4	0	0	5
Louisiana	0	0	0	0	4	0	2	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	10	0	5	2
Mountain	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**6**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	2	0	0	14
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	11
Pacific Contiguous	**0**	**0**	**0**	**71**	**5**	**0**	**3**	**1**
California	0	0	0	71	9	0	3	1
Oregon	0	0	0	0	13	0	0	14
Washington	0	0	0	0	7	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**118**	**0**	**0**	**20**
Alaska	0	0	0	0	118	0	0	4
Hawaii	0	0	0	0	0	0	0	25
U.S. Total	**0**	**0**	**0**	**50**	**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, May 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**0**	**1**
Connecticut	0	2	4	0	1
Maine	0	2	2	0	1
Massachusetts	1	2	8	0	2
New Hampshire	1	2	4	0	1
Rhode Island	0	0	0	0	0
Vermont	2	7	7	0	4
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	1	2	0	0
New York	0	1	2	0	0
Pennsylvania	0	1	1	0	0
East North Central	**0**	**1**	**1**	**0**	**1**
Illinois	0	2	1	0	1
Indiana	1	3	2	0	1
Michigan	0	2	3	0	1
Ohio	1	2	2	0	1
Wisconsin	1	4	5	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	1	8	5	0	3
Kansas	2	1	7	0	2
Minnesota	1	5	7	0	3
Missouri	1	3	6	0	1
Nebraska	1	8	9	0	4
North Dakota	1	5	9	0	4
South Dakota	2	10	13	0	5
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	6	7	0	3
District of Columbia	0	0	0	0	0
Florida	1	0	5	0	1
Georgia	1	1	4	0	1
Maryland	0	1	4	0	1
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	0	4	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	1	4	4	0	2
Mississippi	2	2	5	0	2
Tennessee	1	3	5	0	2
West South Central	**2**	**1**	**1**	**0**	**1**
Arkansas	2	1	4	0	2
Louisiana	1	1	1	0	1
Oklahoma	1	1	5	0	1
Texas	2	1	2	0	1
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	2	4	0	1
Colorado	1	5	7	0	3
Idaho	1	5	3	0	2
Montana	2	8	10	0	4
Nevada	0	2	1	0	1
New Mexico	2	7	8	0	4
Utah	2	5	3	0	2
Wyoming	2	9	4	0	3
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	0	1	2	0	1
Oregon	1	5	10	0	3
Washington	1	5	7	0	3
Pacific Noncontiguous	**1**	**5**	**4**	**0**	**2**
Alaska	2	11	16	0	6
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through May 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**0**	**1**
Connecticut	0	1	4	0	1
Maine	1	1	1	0	1
Massachusetts	1	1	7	0	1
New Hampshire	1	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	3	5	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	1	0	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	1	0	1
Indiana	1	2	2	0	1
Michigan	0	2	2	0	1
Ohio	1	1	1	0	1
Wisconsin	1	3	4	0	2
West North Central	**1**	**2**	**2**	**0**	**1**
Iowa	1	6	4	0	2
Kansas	2	1	5	0	2
Minnesota	1	4	5	0	2
Missouri	1	2	5	0	1
Nebraska	1	6	7	0	3
North Dakota	1	3	7	0	3
South Dakota	2	7	9	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	3	6	0	2
District of Columbia	0	0	0	0	0
Florida	1	0	4	0	0
Georgia	1	1	3	0	1
Maryland	0	1	3	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	0	3	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**1**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	1	3	3	0	1
Mississippi	2	1	4	0	1
Tennessee	1	2	4	0	1
West South Central	**1**	**0**	**1**	**0**	**1**
Arkansas	1	1	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	3	0	1
Texas	1	0	1	0	1
Mountain	**0**	**1**	**2**	**0**	**1**
Arizona	0	2	3	0	1
Colorado	1	4	5	0	2
Idaho	1	4	3	0	2
Montana	1	6	7	0	3
Nevada	0	2	1	0	1
New Mexico	1	6	6	0	3
Utah	1	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	2	8	11	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, May 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**0**	**1**
Connecticut	0	2	3	0	1
Maine	1	2	2	0	1
Massachusetts	1	2	5	0	1
New Hampshire	1	2	4	0	1
Rhode Island	0	0	0	0	0
Vermont	3	8	6	0	4
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	1	3	0	1
New York	0	0	2	0	0
Pennsylvania	0	1	1	0	0
East North Central	**0**	**1**	**2**	**0**	**1**
Illinois	1	2	2	0	1
Indiana	1	4	2	0	1
Michigan	0	2	4	0	1
Ohio	1	2	3	0	1
Wisconsin	1	3	6	0	2
West North Central	**1**	**2**	**4**	**0**	**1**
Iowa	1	6	8	0	3
Kansas	2	2	6	0	2
Minnesota	1	3	8	0	2
Missouri	1	3	5	0	1
Nebraska	2	6	11	0	4
North Dakota	2	4	9	0	4
South Dakota	2	8	15	0	4
South Atlantic	**1**	**1**	**2**	**0**	**0**
Delaware	2	8	11	0	3
District of Columbia	0	0	0	0	0
Florida	1	1	6	0	1
Georgia	2	1	5	0	1
Maryland	1	1	4	0	1
North Carolina	1	1	4	0	1
South Carolina	2	2	4	0	1
Virginia	1	1	4	0	1
West Virginia	0	2	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	2	2	3	0	1
Kentucky	2	5	4	0	2
Mississippi	3	3	6	0	2
Tennessee	1	4	5	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	3	5	0	2
Louisiana	2	2	2	0	1
Oklahoma	2	2	6	0	2
Texas	2	1	2	0	1
Mountain	**0**	**2**	**3**	**0**	**1**
Arizona	0	2	5	0	1
Colorado	2	5	8	0	3
Idaho	1	4	3	0	2
Montana	2	6	21	0	4
Nevada	0	3	2	0	1
New Mexico	2	8	13	0	4
Utah	2	5	4	0	3
Wyoming	2	7	5	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	11	0	2
Washington	1	3	10	0	2
Pacific Noncontiguous	**1**	**3**	**3**	**0**	**1**
Alaska	3	8	14	0	5
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 May 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**0**
Connecticut	0	1	2	0	1
Maine	1	1	1	0	1
Massachusetts	1	1	4	0	1
New Hampshire	1	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	3	5	4	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	1	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	2	0	1
Indiana	1	3	1	0	1
Michigan	0	1	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	2	5	0	1
West North Central	**1**	**1**	**3**	**0**	**1**
Iowa	2	5	6	0	2
Kansas	2	2	5	0	1
Minnesota	1	3	6	0	2
Missouri	2	3	4	0	1
Nebraska	2	5	9	0	3
North Dakota	2	3	6	0	3
South Dakota	2	6	11	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	2	4	7	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	4	0	1
Georgia	1	1	3	0	1
Maryland	1	1	3	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	3	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	4	3	0	2
Mississippi	2	2	4	0	1
Tennessee	1	3	4	0	1
West South Central	**1**	**1**	**1**	**0**	**1**
Arkansas	2	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	2	2	4	0	1
Texas	1	1	2	0	1
Mountain	**1**	**1**	**2**	**0**	**1**
Arizona	1	2	4	0	1
Colorado	2	4	6	0	2
Idaho	1	3	4	0	1
Montana	2	4	14	0	3
Nevada	1	3	1	0	1
New Mexico	3	6	9	0	3
Utah	2	4	3	0	2
Wyoming	2	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	2	5	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, May 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**1**	**0**	**0**
Connecticut	0	1	2	0	0
Maine	0	1	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	2
Middle Atlantic	**0**	**0**	**1**	**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	1	1	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**	**1**	**0**	**0**
Iowa	1	2	3	0	1
Kansas	1	2	3	0	1
Minnesota	1	1	3	0	1
Missouri	1	1	2	0	1
Nebraska	1	2	5	0	1
North Dakota	1	1	3	0	1
South Dakota	2	3	5	0	2
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	3	5	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	3	0	0
Georgia	1	1	2	0	1
Maryland	0	0	1	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	1	2	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**1**	**0**	**1**
Alabama	1	1	1	0	1
Kentucky	1	2	1	0	1
Mississippi	2	2	3	0	1
Tennessee	1	1	2	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	2	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	3	0	1
Texas	1	1	1	0	1
Mountain	**0**	**0**	**1**	**0**	**0**
Arizona	0	1	2	0	0
Colorado	1	1	3	0	1
Idaho	1	1	1	0	1
Montana	2	3	13	0	1
Nevada	0	1	1	0	0
New Mexico	1	2	6	0	1
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	2	4	0	1
Washington	1	2	4	0	1
Pacific Noncontiguous	**1**	**3**	**2**	**0**	**1**
Alaska	2	5	6	0	3
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**0**	**0**

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Table A.8.B. Relative Standard Error for Average Price of Electricity to Ultimate Customers

by End-Use Sector, Census Division, and State, Year-to-Date through May 2018

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**0**	**1**
Connecticut	0	1	4	0	1
Maine	1	2	2	0	1
Massachusetts	1	1	6	0	1
New Hampshire	1	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	3	6	6	0	3
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	1	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	1	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	2	0	1
Indiana	1	3	2	0	1
Michigan	1	2	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	3	5	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	2	6	6	0	3
Kansas	2	2	6	0	2
Minnesota	1	4	7	0	2
Missouri	2	3	5	0	1
Nebraska	2	6	9	0	4
North Dakota	2	4	8	0	3
South Dakota	2	8	12	0	4
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	2	4	8	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	3	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	4	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	4	3	0	2
Mississippi	2	2	5	0	2
Tennessee	1	3	5	0	2
West South Central	**1**	**1**	**1**	**0**	**1**
Arkansas	1	2	4	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	2	5	0	1
Texas	1	1	2	0	1
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	1	2	4	0	1
Colorado	1	4	7	0	2
Idaho	1	4	4	0	2
Montana	2	6	14	0	3
Nevada	1	3	2	0	1
New Mexico	2	7	10	0	4
Utah	2	5	3	0	2
Wyoming	2	6	4	0	3
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	10	0	2
Washington	1	3	8	0	2
Pacific Noncontiguous	**1**	**4**	**3**	**0**	**2**
Alaska	2	8	12	0	4
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2018

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
2018	1	01/01/2018 5:43 PM	ongoing	ongoing	American Electric Power - Texas	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	Unknown	Unknown
2018	1	01/01/2018 6:21 PM	01/02/2018 6:11 PM	23 Hours, 50 Minutes	Tennessee Valley Authority	SERC	Tennessee:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	Unknown	Unknown
2018	1	01/01/2018 9:37 PM	01/02/2018 10:30 AM	12 Hours, 53 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2018	1	01/02/2018 6:45 AM	01/02/2018 9:00 AM	2 Hours, 15 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	System-wide voltage reductions of 3 percent or more-Severe Weather	14998	Unknown
2018	1	01/02/2018 7:30 AM	ongoing	ongoing	South Carolina Electric and Gas	SERC	South Carolina:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	0	717000
2018	1	01/02/2018 10:00 AM	02/12/2018 8:00 AM	982 Hours, 0 Minutes	Somerset Operating Company, LLC	NPCC	New York: Niagara County:	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	675	Unknown
2018	1	01/15/2018 4:20 AM	01/18/2018 5:48 AM	73 Hours, 28 Minutes	American Electric Power - Texas	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	Unknown	Unknown
2018	1	01/16/2018 1:57 PM	01/16/2018 2:32 PM	0 Hours, 35 Minutes	ERCOT	TRE	Texas:	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-Severe Weather	Unknown	Unknown
2018	1	01/16/2018 3:00 PM	01/18/2018 1:00 PM	46 Hours, 0 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2018	1	01/16/2018 3:00 PM	01/18/2018 1:00 PM	46 Hours, 0 Minutes	Tennessee Valley Authority	SERC	Tennessee:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	Unknown	Unknown
2018	1	01/17/2018 5:10 AM	01/17/2018 1:00 PM	7 Hours, 50 Minutes	Cooperative Energy	SERC	Mississippi:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	1788	420000
2018	1	01/17/2018 6:10 AM	01/17/2018 2:00 PM	7 Hours, 50 Minutes	Louisiana Generating LLC	SERC	Louisiana:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2018	1	01/18/2018 5:00 AM	01/18/2018 9:45 AM	4 Hours, 45 Minutes	Cooperative Energy	SERC	Mississippi:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	1760	420000
2018	1	01/18/2018 5:00 AM	01/18/2018 11:00 AM	6 Hours, 0 Minutes	Entergy Services, Inc.	SERC	Arkansas: Mississippi: Louisiana: Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	31500	Unknown
2018	1	01/18/2018 6:00 AM	ongoing	ongoing	Louisiana Generating LLC	SERC	Louisiana:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2018	2	02/08/2018 1:25 PM	02/08/2018 1:31 PM	0 Hours, 6 Minutes	Pacific Gas & Electric Co	WECC	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-System Operations	30	10900
2018	3	03/01/2018 11:43 AM	03/01/2018 11:56 AM	0 Hours, 13 Minutes	Pacific Gas & Electric Co	WECC	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-Severe Weather	38	10898
2018	3	03/01/2018 9:57 PM	03/02/2018 10:14 AM	12 Hours, 17 Minutes	The Illuminating Company	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	86501
2018	3	03/01/2018 10:20 PM	03/04/2018 8:00 PM	69 Hours, 40 Minutes	Detroit Edison Co	RF	Michigan: Wayne County, Washtenaw County, Oakland County, Macomb County, Monroe County:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	95000
2018	3	03/02/2018 7:00 AM	ongoing	ongoing	Central Hudson Gas & Elec Corp	NPCC	New York: Dutchess County, Orange County, Greene County, Ulster County, Putnam County, Sullivan County, Albany County, Columbia County:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	90000
2018	3	03/02/2018 8:00 AM	03/03/2018 11:00 PM	39 Hours, 0 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	Virginia: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	65198
2018	3	03/02/2018 8:42 AM	ongoing	ongoing	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	63331

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2018

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
2018	3	03/02/2018 11:34 AM	ongoing	ongoing	New York State Electric & Gas	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	50000
2018	3	03/02/2018 11:58 AM	ongoing	ongoing	PPL Electric Utilities Corp	RF	Pennsylvania: Berks County, Bucks County, Carbon County, Chester County, Clinton County, Columbia County, Cumberland County, Dauphin County, Juniata County, Lackawanna County, Lancaster County, Lebanon County, Lehigh County, Luzerne County, Lycoming County, Monroe County, Montgomery County, Montour County, Northampton County, Northumberland County, Pike County, Schuylkill County, Snyder 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-Severe Weather	Unknown	126000
2018	3	03/02/2018 12:00 PM	ongoing	ongoing	Baltimore Gas and Electric	RF	Maryland:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Severe Weather	670	474019
2018	3	03/02/2018 12:00 PM	03/05/2018 12:00 AM	60 Hours, 0 Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	630000
2018	3	03/02/2018 1:51 PM	03/04/2018 12:11 PM	46 Hours, 20 Minutes	Metropolitan Edison Co	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	233136
2018	3	03/02/2018 1:51 PM	03/05/2018 1:18 PM	71 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-Severe Weather	Unknown	325000
2018	3	03/02/2018 3:10 PM	03/06/2018 4:57 AM	85 Hours, 47 Minutes	Jersey Central Power & Lt Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	249322
2018	3	03/02/2018 3:46 PM	03/04/2018 7:46 PM	52 Hours, 0 Minutes	Consolidated Edison Co-NY Inc	NPCC	New York: New York County, Westchester County:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72353
2018	3	03/02/2018 5:00 PM	03/06/2018 11:00 AM	90 Hours, 0 Minutes	Delmarva Power & Light Company	RF	Delaware: Maryland:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	60000
2018	3	03/07/2018 12:00 PM	03/07/2018 5:00 PM	5 Hours, 0 Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	120000
2018	3	03/07/2018 4:10 PM	03/10/2018 11:32 AM	67 Hours, 22 Minutes	Jersey Central Power & Lt Co	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	216800
2018	3	03/07/2018 5:15 PM	ongoing	ongoing	Public Service Electric & Gas	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	50	58000
2018	3	03/07/2018 7:37 PM	03/10/2018 4:35 PM	68 Hours, 58 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Maine: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	102000
2018	3	03/13/2018 8:50 AM	03/14/2018 11:22 PM	38 Hours, 32 Minutes	ISO New England	NPCC	Massachusetts: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	123629
2018	3	03/19/2018 11:29 PM	03/20/2018 3:37 AM	4 Hours, 8 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	261	78220
2018	3	03/20/2018 7:00 PM	03/25/2018 6:30 AM	107 Hours, 30 Minutes	Atlantic City Electric Co	RF	New Jersey: Atlantic County, Camden County, Cape May County, Gloucester County, Salem County, Cumberland County, Burlington County:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	80	124000
2018	3	03/24/2018 10:30 PM	03/26/2018 8:00 PM	45 Hours, 30 Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RF	Virginia: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	81227
2018	4	04/04/2018 4:42 PM	04/07/2018 6:22 AM	61 Hours, 40 Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72896
2018	4	04/05/2018 12:50 AM	04/05/2018 4:00 PM	15 Hours, 10 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	65932
2018	4	04/09/2018 11:16 AM	ongoing	ongoing	Peak Reliability	WECC	Utah:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	300	250000
2018	4	04/09/2018 12:16 PM	04/09/2018 1:52 PM	1 Hours, 36 Minutes	Pacificorp	WECC	Utah: Salt Lake County:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	806	57000
2018	4	04/14/2018 9:30 AM	04/14/2018 10:00 AM	0 Hours, 30 Minutes	Entergy Corp	SERC	Louisiana: Arkansas: Mississippi: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	56350
2018	4	04/15/2018 7:30 AM	04/18/2018 7:30 AM	72 Hours, 0 Minutes	DTE Energy	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	389591
2018	4	04/15/2018 5:14 PM	04/15/2018 11:25 PM	6 Hours, 11 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	78100
2018	5	05/04/2018 12:00 PM	05/06/2018 1:00 PM	49 Hours, 0 Minutes	DTE Energy	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	300000
2018	5	05/04/2018 2:00 PM	05/05/2018 9:30 AM	19 Hours, 30 Minutes	Consumers Energy Co	RF	Michigan: Calhoun County, Genesee County, Ingham County, Kent County, Macomb County, Midland County, Saginaw County, Gratiot County:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	90000

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2018

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
2018	5	05/04/2018 8:10 PM	ongoing	ongoing	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	106150
2018	5	05/04/2018 11:10 PM	05/05/2018 12:40 AM	1 Hours, 30 Minutes	ISO New England	NPCC	New Hampshire: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	56000
2018	5	05/05/2018 4:30 AM	05/05/2018 3:30 PM	11 Hours, 0 Minutes	ISO New England	NPCC	Vermont: New Hampshire: Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	31900
2018	5	05/14/2018 7:08 PM	ongoing	ongoing	Dominion Energy VA	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	112000
2018	5	05/15/2018 2:50 PM	ongoing	ongoing	PPL Electric Utilities Corp	RF	Pennsylvania: Lehigh County, Schuylkill County, Cumberland County, Lancaster County, Northampton County, Berks County, Clinton County, Susquehanna County, Bucks County, Carbon County, Chester County, Columbia County, Juniata County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	114000
2018	5	05/15/2018 4:00 PM	ongoing	ongoing	Central Hudson Gas & Electric	NPCC	New York: Dutchess County, Ulster County, Orange County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72000
2018	5	05/15/2018 5:15 PM	ongoing	ongoing	New York State Electric & Gas	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	49999
2018	5	05/15/2018 5:25 PM	ongoing	ongoing	Jersey Central Power & Lt Co	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	82372
2018	5	05/15/2018 6:14 PM	05/15/2018 7:00 PM	0 Hours, 46 Minutes	Metropolitan Edison Co	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	52872
2018	5	05/15/2018 6:35 PM	05/18/2018 3:57 PM	69 Hours, 22 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Rhode Island:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	120000
2018	5	05/17/2018 1:11 AM	ongoing	ongoing	Peak Reliability	WECC	California: Contra Costa County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	70	70000
2018	5	05/17/2018 1:11 AM	05/18/2018 12:38 AM	23 Hours, 27 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Transmission Disruption	124	70000
2018	5	05/26/2018 6:40 PM	05/27/2018 11:50 PM	29 Hours, 10 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	163932

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, 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-Severe Weather	Unknown	106000
2017	1	01/08/2017 11:59 PM	. .	. Hours, . 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
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-Severe Weather	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-Severe Weather	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-Severe Weather	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-Severe Weather	97	64000
2017	1	01/22/2017 6:00 AM	. .	. Hours, . 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
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-Severe Weather	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	. .	. Hours, . 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-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-Severe 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-Severe Weather	Unknown	111591
2017	3	03/01/2017 8:30 AM	03/01/2017 2:00 PM	5 Hours, 30 Minutes	Tennessee Valley Authority	SERC	Tennessee: Kentucky:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	58000
2017	3	03/01/2017 11:49 AM	03/02/2017 9:30 PM	33 Hours, 41 Minutes	American Electric Power	RFC	Kentucky: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	98575
2017	3	03/02/2017 12:20 PM	03/02/2017 11:45 PM	11 Hours, 25 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	54316
2017	3	03/06/2017 8:00 PM	03/07/2017 1:00 AM	5 Hours, 0 Minutes	Kansas City Power & Light Co	SERC	Missouri: Jackson County, Platte County, Cass County, Lafayette County, Chariton County, Carroll County, Clay County, Johnson County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	97734
2017	3	03/08/2017 9:30 AM	03/11/2017 5:00 AM	67 Hours, 30 Minutes	Consumers Energy Co	RFC	Michigan: Jackson County, Calhoun County, Ingham County, Hillsdale County, Washtenaw County, Kent County, Ottawa County, Midland County, Saginaw County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	343000
2017	3	03/08/2017 11:30 AM	03/08/2017 7:52 PM	8 Hours, 22 Minutes	Cleveland Electric Illum Co	RFC	Ohio	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	71012
2017	3	03/08/2017 12:00 PM	03/11/2017 11:31 AM	71 Hours, 31 Minutes	Detroit Edison Co	RFC	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	800000
2017	3	03/08/2017 1:30 PM	03/08/2017 4:30 PM	3 Hours, 0 Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	Unknown	106869
2017	3	03/08/2017 3:33 PM	. .	. Hours, . Minutes	Rochester Gas & Electric Corp	NPCC	New York	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	50000
2017	3	03/14/2017 12:32 PM	. .	. Hours, . Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Rhode Island: New Hampshire: Maine: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	69647
2017	3	03/21/2017 8:00 PM	03/22/2017 9:15 AM	13 Hours, 15 Minutes	Southern Company	SERC	Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	857	257000
2017	3	03/29/2017 3:30 AM	03/31/2017 6:00 AM	50 Hours, 30 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	175000

Table B.2 Major Disturbances and Unusual Occurrences, 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	4	04/03/2017 11:00 AM	04/03/2017 8:00 PM	9 Hours, 0 Minutes	Southern Company	SERC	Alabama, Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	290	86330
2017	4	04/06/2017 7:00 PM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	100000
2017	4	04/07/2017 4:33 AM	04/07/2017 8:20 AM	3 Hours, 47 Minutes	Pacificorp	WECC	Oregon	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	100	64852
2017	4	04/07/2017 8:15 AM	04/08/2017 12:14 AM	15 Hours, 59 Minutes	Portland General Electric Co	WECC	Oregon: Multnomah County, Washington County, Marion County, Clackamas County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	153867
2017	4	04/24/2017 5:32 AM	04/24/2017 6:33 AM	1 Hours, 1 Minutes	Duke Energy Carolinas	SERC	North Carolina: Mecklenburg County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	240	74698
2017	4	04/30/2017 1:00 AM	04/30/2017 5:45 PM	16 Hours, 45 Minutes	Entergy Corp	SERC	Arkansas, Louisiana, Mississippi	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	145174
2017	5	05/01/2017 11:14 PM	05/01/2017 11:34 PM	0 Hours, 20 Minutes	Pennsylvania Electric Co	RFC	Ohio	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	92390
2017	5	05/03/2017 6:58 PM	05/03/2017 9:15 PM	2 Hours, 17 Minutes	Southern California Edison Co	WECC	California	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	572	0
2017	5	05/03/2017 7:05 PM	05/03/2017 9:00 PM	1 Hours, 55 Minutes	California ISO	WECC	California	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Generation Inadequacy	878	Unknown
2017	5	05/04/2017 5:00 AM	05/04/2017 10:00 PM	17 Hours, 0 Minutes	Southern Company	SERC	Alabama: Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	200	60377
2017	5	05/07/2017 5:15 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	California: Fresno County	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2017	5	05/07/2017 11:30 PM	05/08/2017 5:00 AM	5 Hours, 30 Minutes	Owensboro Municipal Utilities	SERC	Kentucky: Daviess County	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy	80	0
2017	5	05/19/2017 5:30 AM	. .	. Hours, . Minutes	Ameren Missouri	SERC	Missouri: St. Louis County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	70696
2017	5	05/27/2017 11:00 PM	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Tennessee: Shelby County, Putnam County, Knox County, Davidson County, Hamilton County; Alabama: Madison County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	116000
2017	5	05/27/2017 11:10 PM	. .	. Hours, . Minutes	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	391	188000
2017	5	05/28/2017 7:30 PM	05/29/2017 10:00 PM	26 Hours, 30 Minutes	American Electric Power - (SPP Reliability Region)	TRE	Texas: Louisiana	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	103000
2017	5	05/28/2017 7:30 PM	05/29/2017 10:00 PM	26 Hours, 30 Minutes	Southwest Power Pool, Inc.	SERC	Louisiana: Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	103000
2017	6	06/11/2017 2:39 PM	06/11/2017 5:55 PM	3 Hours, 16 Minutes	MISO	RFC	Michigan	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	63	Unknown
2017	7	07/07/2017 3:30 AM	07/08/2017 7:30 PM	40 Hours, 0 Minutes	Consumers Energy Co	RFC	Michigan: Kent County, Ottawa County, Muskegon County, Barry County, Oceana County, Eaton County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	160000
2017	7	07/08/2017 6:52 PM	07/09/2017 8:00 AM	13 Hours, 8 Minutes	Los Angeles Department of Water & Power	WECC	California: Los Angeles County	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Transmission Interruption	645	176867
2017	7	07/18/2017 4:23 PM	07/18/2017 6:39 PM	2 Hours, 16 Minutes	Western Area Power Administration - Western Area Lower Colorado	WECC	Nevada	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather	0	0
2017	7	07/22/2017 10:00 PM	. .	. Hours, . Minutes	Southwest Power Pool, Inc.	SERC	Missouri	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	131000
2017	7	07/22/2017 10:00 PM	. .	. Hours, . Minutes	KCP&L Greater Missouri Operations Company	SERC	Missouri	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	115000
2017	7	07/22/2017 10:00 PM	07/23/2017 12:00 PM	14 Hours, 0 Minutes	Kansas City Power & Light Co	SERC	Missouri: Clay County, Jackson County, Lafayette County, Platte County; Kansas: Johnson County, Miami County, Wyandotte County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	112540
2017	7	07/23/2017 4:00 AM	. .	. Hours, . Minutes	Ameren Missouri	SERC	Missouri: Illinois	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	82000
2017	7	07/27/2017 6:00 AM	07/27/2017 11:29 AM	5 Hours, 29 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

Table B.2 Major Disturbances and Unusual Occurrences, 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	8	08/21/2017 11:41 PM	08/22/2017 12:21 AM	0 Hours, 40 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-System Operations	1	2
2017	8	08/25/2017 6:17 PM	09/02/2017 5:00 PM	190 Hours, 43 Minutes	American Electric Power - Texas	TRE	Texas: Matagorda County, Nueces County, Aransas County, Refugio County, San Patricio County, Calhoun County, Victoria County, Jackson County, Live Oak County, Jim Wells County, Bee County, Lavaca County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	220400
2017	8	08/25/2017 6:30 PM	09/05/2017 5:00 PM	262 Hours, 30 Minutes	ERCOT	TRE	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	330000
2017	8	08/26/2017 12:39 AM	08/26/2017 12:52 AM	0 Hours, 13 Minutes	ERCOT	TRE	Texas	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-Severe Weather	Unknown	Unknown
2017	8	08/26/2017 6:26 AM	09/08/2017 12:00 AM	305 Hours, 34 Minutes	CenterPoint Energy	TRE	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	1076868
2017	8	08/27/2017 5:10 AM	09/08/2017 12:00 AM	282 Hours, 50 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	1076868
2017	8	08/30/2017 2:15 AM	. .	. Hours, . Minutes	Entergy Corp	TRE	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	78500
2017	8	08/31/2017 2:49 PM	08/31/2017 5:14 PM	2 Hours, 25 Minutes	Southern California Edison Co	WECC	California: Los Angeles County	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Severe Weather	100	0
2017	9	09/01/2017 3:41 PM	09/01/2017 8:30 PM	4 Hours, 49 Minutes	Southern California Edison Co	WECC	California:	Load shedding of 100 Megawatts or more implemented under emergency operational policy-Severe Weather	337	0
2017	9	09/09/2017 12:00 AM	. .	. Hours, . Minutes	Tampa Electric Company	FRCC	Florida: Hillsborough County, Pasco County, Polk County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	1275	425000
2017	9	09/09/2017 12:30 PM	. .	. Hours, . Minutes	Florida Power & Light	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	3500000
2017	9	09/10/2017 6:35 PM	09/13/2017 5:00 PM	70 Hours, 25 Minutes	Duke Energy Florida	FRCC	Florida: Alachua County, Bay County, Brevard County, Citrus County, Columbia County, Dixie County, Flagler County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Leon County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Po	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	4500	1000000
2017	9	09/10/2017 8:37 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	452555
2017	9	09/11/2017 12:30 AM	. .	. Hours, . Minutes	Lakeland Electric	FRCC	Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	200	20000
2017	9	09/11/2017 2:27 AM	09/15/2017 8:44 PM	114 Hours, 17 Minutes	Southern Company	SERC	Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	132	39659
2017	9	09/11/2017 12:55 PM	09/12/2017 8:00 AM	19 Hours, 5 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	687	154832
2017	9	09/11/2017 5:30 PM	09/13/2017 9:30 AM	40 Hours, 0 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	365	265729
2017	10	10/08/2017 3:00 AM	. .	. Hours, . Minutes	Southern Company	SERC	Alabama: Florida: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	306	91945
2017	10	10/09/2017 2:03 AM	10/17/2017 1:30 PM	203 Hours, 27 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	177	117900
2017	10	10/09/2017 6:44 AM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	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-Severe Weather	100	Unknown
2017	10	10/12/2017 9:09 AM	. .	. Hours, . Minutes	Clarksdale Public Utilities	SERC	Mississippi: Coahoma County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-System Operations	Unknown	Unknown
2017	10	10/16/2017 3:45 PM	10/16/2017 4:09 PM	0 Hours, 24 Minutes	Bonneville Power Administration	WECC	Washington: Montana:	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

Table B.2 Major Disturbances and Unusual Occurrences, 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	10	10/16/2017 3:55 PM	10/16/2017 4:10 PM	0 Hours, 15 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-Transmission Interruption	0	0
2017	10	10/20/2017 3:44 AM	10/20/2017 3:45 AM	0 Hours, 1 Minutes	Peak Reliability	WECC	Washington:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather	900	Unknown
2017	10	10/22/2017 8:45 AM	10/22/2017 2:00 PM	5 Hours, 15 Minutes	Entergy Corp	SERC	Louisiana: Mississippi: Arkansas: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	Unknown
2017	10	10/23/2017 5:50 PM	10/24/2017 6:17 PM	24 Hours, 27 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	440	115144
2017	10	10/26/2017 8:17 AM	10/26/2017 8:41 AM	0 Hours, 24 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-Transmission Interruption	0	0
2017	10	10/26/2017 8:17 AM	10/26/2017 8:41 AM	0 Hours, 24 Minutes	Bonneville Power Administration	WECC	Washington: Whatcom County; Montana:	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
2017	10	10/29/2017 11:40 PM	11/01/2017 6:08 PM	66 Hours, 28 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Maine: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	310453
2017	11	11/01/2017 3:40 PM	11/01/2017 10:00 PM	6 Hours, 20 Minutes	Owensboro Municipal Utilities	SERC	Kentucky: Daviess County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system-Generation Inadequacy	0	0
2017	11	11/05/2017 7:35 PM	11/05/2017 11:09 PM	3 Hours, 34 Minutes	Ohio Edison Co	RF	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	89216
2017	11	11/13/2017 2:00 AM	11/15/2017 8:17 AM	54 Hours, 17 Minutes	Puget Sound Energy	WECC	Washington: Island County, King County, Kitsap County, Thurston County, Skagit County, Whatcom County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	236100
2017	11	11/13/2017 4:33 PM	11/16/2017 6:00 AM	61 Hours, 27 Minutes	Seattle City Light, Sytem Control Center	WECC	Washington: King County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	85	68430
2017	12	12/04/2017 9:53 PM	. .	. Hours, . Minutes	Southern California Edison Co	WECC	California:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident-Severe Weather/Transmission Interruption	540	263000
2017	12	12/05/2017 6:30 AM	12/06/2017 10:00 AM	27 Hours, 30 Minutes	Consumers Energy Co	RF	Michigan: Oscoda County, Isabella County, Roscommon County, Ogemaw County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	117500
2017	12	12/07/2017 8:00 PM	12/08/2017 5:00 PM	21 Hours, 0 Minutes	CPS Energy	TRE	Texas: Bexar County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	88000
2017	12	12/08/2017 9:30 AM	12/08/2017 10:30 PM	13 Hours, 0 Minutes	Entergy Corp	SERC	Louisiana: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	79000
2017	12	12/08/2017 10:00 AM	12/10/2017 8:50 PM	58 Hours, 50 Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	865	301872
2017	12	12/10/2017 1:25 AM	12/10/2017 2:30 AM	1 Hours, 5 Minutes	Southern California Edison Co	WECC	California: Ventura County, Santa Barbara County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather/Transmission Interruption	110	51323
2017	12	12/13/2017 9:55 AM	12/13/2017 2:45 PM	4 Hours, 50 Minutes	Long Island Power Authority	NPCC	New York: Suffolk County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply Deficiency	0	0
2017	12	12/29/2017 7:00 AM	. .	. Hours, . 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

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

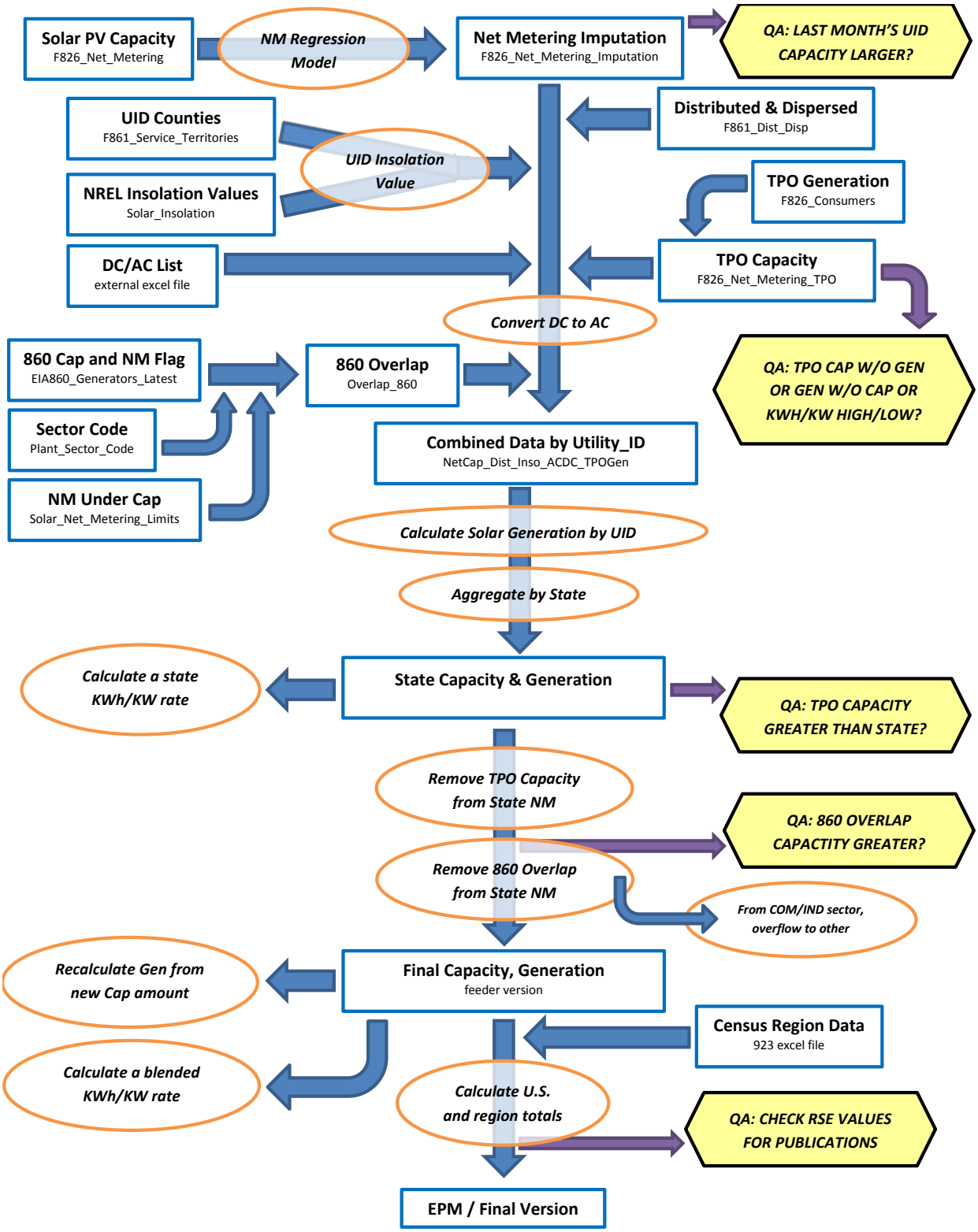
TMY3 (1991-2005) Weather Stations by MSA

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, May 2018

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	18.80	6.14	--	1.03
Connecticut	18.41	5.78	--	1.03
Maine	25.50	6.25	--	1.06
Massachusetts	--	6.30	--	1.03
New Hampshire	--	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.66	6.02	--	1.03
New Jersey	25.80	5.72	--	1.03
New York	--	6.12	--	1.03
Pennsylvania	23.61	5.91	--	1.04
East North Central	20.10	5.78	27.36	1.04
Illinois	17.68	5.80	--	1.01
Indiana	22.16	5.75	--	1.05
Michigan	18.63	5.81	27.33	1.04
Ohio	24.60	5.77	--	1.05
Wisconsin	17.89	5.80	27.64	1.02
West North Central	16.67	5.80	--	1.06
Iowa	17.53	5.71	--	1.08
Kansas	17.31	5.78	--	1.04
Minnesota	17.66	5.80	--	1.06
Missouri	17.63	5.80	--	1.04
Nebraska	16.88	--	--	1.06
North Dakota	13.12	5.84	--	0.98
South Dakota	16.50	6.00	--	--
South Atlantic	23.78	5.90	--	1.03
Delaware	--	5.67	--	1.03
District of Columbia	--	--	--	--
Florida	23.77	5.76	--	1.02
Georgia	19.98	5.80	--	1.03
Maryland	24.92	5.81	--	1.04
North Carolina	24.87	5.86	--	1.03
South Carolina	24.71	5.83	--	1.03
Virginia	21.68	6.20	--	1.05
West Virginia	24.96	5.74	--	1.08
East South Central	20.81	5.79	--	1.03
Alabama	19.25	5.56	--	1.03
Kentucky	22.32	5.83	--	1.04
Mississippi	13.45	5.80	--	1.03
Tennessee	23.67	5.77	--	1.00
West South Central	16.13	5.89	28.89	1.03
Arkansas	17.47	5.89	--	1.02
Louisiana	17.21	--	28.89	1.03
Oklahoma	17.51	5.80	--	1.03
Texas	15.66	5.90	--	1.03
Mountain	18.74	5.81	--	1.05
Arizona	19.95	5.69	--	1.04
Colorado	18.09	5.88	--	1.09
Idaho	--	--	--	--
Montana	16.68	5.92	--	1.05
Nevada	18.03	5.81	--	1.04
New Mexico	19.01	--	--	1.04
Utah	21.04	5.77	--	1.04
Wyoming	17.40	5.80	--	1.05
Pacific Contiguous	18.60	6.00	--	1.03
California	23.17	--	--	1.03
Oregon	--	--	--	1.05
Washington	16.95	6.00	--	1.10
Pacific Noncontiguous	18.87	6.17	--	1.00
Alaska	14.67	--	--	1.00
Hawaii	19.99	6.17	--	--
U.S. Total	19.34	6.06	28.50	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, 2014 through 2016

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2014**	**2015**	**2016**
Net Generation			
Coal	0.25%	0.33%	0.09%
Petroleum Liquids	2.32%	1.00%	3.08%
Petroleum Coke	2.96%	1.60%	1.46%
Natural Gas	0.42%	0.18%	0.30%
Other Gases	4.12%	3.90%	3.76%
Hydroelectric	0.49%	1.08%	0.76%
Nuclear	0.01%	0.01%	0.05%
Other	0.43%	0.80%	0.76%
Total	**0.08%**	**0.23%**	**0.08%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.13%	0.24%	0.11%
Petroleum Liquids	2.17%	2.28%	5.81%
Petroleum Coke	3.19%	1.50%	0.87%
Natural Gas	0.48%	0.32%	2.26%
Fuel Stocks for Electric Power Sector			
Coal	0.38%	0.40%	0.72%
Petroleum Liquids	4.25%	2.92%	3.19%
Petroleum Coke	0.61%	0.04%	0.27%
Retail Sales			
Residential	0.30%	0.30%	0.26%
Commercial	0.38%	0.18%	0.55%
Industrial	4.39%	2.92%	4.31%
Transportation	0.44%	0.37%	0.06%
Total	**1.10%**	**0.93%**	**1.40%**
Revenue			
Residential	0.43%	0.15%	0.28%
Commercial	0.47%	0.62%	1.21%
Industrial	5.66%	3.15%	4.54%
Transportation	1.92%	1.09%	1.53%
Total	**1.01%**	**0.83%**	**1.34%**
Average Retail Price			
Residential	0.12%	0.15%	0.05%
Commercial	0.20%	0.44%	0.65%
Industrial	1.20%	0.31%	0.24%
Transportation	2.18%	0.83%	1.57%
Total	**0.16%**	**0.11%**	**0.10%**
Receipt of Fossil Fuels			
Coal	2.20%	1.70%	1.92%
Petroleum Liquids	0.49%	1.86%	1.16%
Petroleum Coke	2.03%	2.47%	0.01%
Natural Gas	0.26%	0.25%	0.21%
Cost of Fossil Fuels			
Coal	0.18%	0.04%	0.12%
Petroleum Liquids	0.04%	0.25%	0.26%
Petroleum Coke	1.03%	1.42%	0.12%
Natural Gas	0.06%	0.14%	0.12%

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, 2014 through 2016

	2014			2015			2016		
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	1,585,697	1,581,710	-0.25%	1,356,057	1,352,398	-0.27%	1,240,108	1,239,149	-0.08%
Petroleum Liquids	18,708	18,276	-2.31%	17,456	17,372	-0.48%	12,675	13,008	2.63%
Petroleum Coke	11,781	11,955	1.48%	10,987	10,877	-1.00%	11,232	11,197	-0.31%
Natural Gas	1,121,928	1,126,609	0.42%	1,335,068	1,333,482	-0.12%	1,380,295	1,378,307	-0.14%
Other Gases	11,578	12,022	3.83%	12,963	13,117	1.18%	13,000	12,807	-1.48%
Hydroelectric	252,540	253,193	0.26%	246,075	243,989	-0.85%	259,143	261,126	0.77%
Nuclear	797,067	797,166	0.01%	797,178	797,178	0.00%	805,327	805,694	0.05%
Other	293,636	292,674	-0.33%	311,597	309,189	-0.77%	357,299	355,387	-0.54%
Total	**4,092,935**	**4,093,606**	**0.02%**	**4,087,381**	**4,077,601**	**-0.24%**	**4,079,079**	**4,076,675**	**-0.06%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	854,416	853,634	-0.09%	740,855	739,594	-0.17%	678,005	677,371	-0.09%
Petroleum Liquids (1,000 barrels)	32,084	31,531	-1.72%	29,545	28,925	-2.10%	21,225	22,405	5.56%
Petroleum Coke (1,000 tons)	4,325	4,412	2.02%	4,088	4,044	-1.07%	4,275	4,253	-0.52%
Natural Gas (1,000 Mcf)	8,502,964	8,544,387	0.49%	10,048,346	10,016,576	-0.32%	10,400,189	10,170,110	-2.21%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	151,362	151,548	0.12%	197,128	195,548	-0.80%	163,946	162,009	-1.18%
Petroleum Liquids (1,000 barrels)	32,139	33,505	4.25%	32,223	32,884	2.05%	30,880	31,839	3.11%
Petroleum Coke (1,000 tons)	847	827	-2.29%	1,342	1,340	-0.15%	872	845	-3.10%
Retail Sales (Million kWh)									
Residential	1,402,911	1,407,208	0.31%	1,399,884	1,404,096	0.30%	1,407,394	1,411,058	0.26%
Commercial	1,357,505	1,352,158	-0.39%	1,358,419	1,360,752	0.17%	1,359,617	1,367,191	0.56%
Industrial	955,488	997,576	4.40%	958,563	986,508	2.92%	936,269	976,715	4.32%
Transportation	7,776	7,758	-0.24%	7,659	7,637	-0.29%	7,499	7,497	-0.03%
Total	**3,723,681**	**3,764,700**	**1.10%**	**3,724,525**	**3,758,992**	**0.93%**	**3,710,779**	**3,762,462**	**1.39%**
Revenue (Million Dollars)									
Residential	175,404	176,178	0.44%	177,367	177,624	0.14%	176,585	177,077	0.28%
Commercial	145,889	145,253	-0.44%	143,893	144,781	0.62%	140,937	142,643	1.21%
Industrial	67,019	70,855	5.72%	66,088	68,166	3.14%	63,201	66,068	4.54%
Transportation	798	810	1.51%	779	771	-1.12%	711	722	1.53%
Total	**389,111**	**393,096**	**1.02%**	**388,127**	**391,341**	**0.83%**	**381,435**	**386,509**	**1.33%**
Average Retail Price (Cents/kWh)									
Residential	12.50	12.52	0.13%	12.67	12.65	-0.16%	12.55	12.55	0.02%
Commercial	10.75	10.74	-0.04%	10.59	10.64	0.44%	10.37	10.43	0.65%
Industrial	7.01	7.10	1.26%	6.89	6.91	0.22%	6.75	6.76	0.21%
Transportation	10.27	10.45	1.75%	10.17	10.09	-0.83%	9.48	9.63	1.55%
Total	**10.45**	**10.44**	**-0.08%**	**10.42**	**10.41**	**-0.10%**	**10.28**	**10.27**	**-0.06%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	836,196	854,560	2.20%	769,866	782,929	1.70%	638,564	650,770	1.91%
Petroleum Liquids (1,000 barrels)	28,355	28,514	0.56%	24,512	24,320	-0.78%	16,610	16,807	1.18%
Petroleum Coke (1,000 tons)	5,091	5,195	2.03%	4,779	4,897	2.46%	4,166	4,166	0.01%
Natural Gas (1,000 Mcf)	8,423,883	8,431,423	0.09%	9,843,170	9,842,581	-0.01%	10,258,688	10,271,180	0.12%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.37	2.37	0.02%	2.22	2.22	-0.03%	2.12	2.11	-0.15%
Petroleum Liquids (1,000 barrels)	19.89	19.89	-0.03%	11.48	11.49	0.10%	9.36	9.39	0.28%
Petroleum Coke (1,000 tons)	1.96	1.98	0.97%	1.87	1.84	-1.37%	1.65	1.65	0.15%
Natural Gas (1,000 Mcf)	4.99	4.99	0.01%	3.22	3.23	0.18%	2.88	2.87	-0.06%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-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 2016 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.