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Electric Power Monthly
with Data for April 2020

June 2020

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

Preface

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

Background

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

Data sources

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

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Table ES1.A. Total Electric Power Industry Summary Statistics, 2020 and 2019

Net Generation and Consumption of Fuels for April														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	40,576	60,008	-32.4%	29,767	44,241	10,358	15,249	12	21	439	497	0	0
Petroleum Liquids	Utility Scale Facilities	624	788	-20.9%	451	534	140	204	5	7	27	42	0	0
Petroleum Coke	Utility Scale Facilities	626	446	40.2%	455	276	142	124	0	1	28	46	0	0
Natural Gas	Utility Scale Facilities	108,138	103,006	5.0%	55,024	50,523	45,187	44,189	573	644	7,354	7,650	0	0
Other Gas	Utility Scale Facilities	801	1,071	-25.2%	6	0	143	339	0	0	653	733	0	0
Nuclear	Utility Scale Facilities	59,170	60,581	-2.3%	32,827	32,063	26,343	28,518	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	20,771	25,483	-18.5%	18,554	23,235	2,096	2,134	16	NM	104	94	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	43,424	42,276	2.7%	5,778	5,665	35,126	34,107	282	264	2,238	2,241	0	0
... Wind	Utility Scale Facilities	29,534	29,711	-0.6%	4,556	4,676	24,950	25,005	18	18	10	11	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	8,010	6,835	17.2%	894	641	7,044	6,130	64	57	8	7	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	2,992	3,027	-1.2%	165	195	680	678	1	4	2,147	2,151	0	0
... Other Biomass	Utility Scale Facilities	1,532	1,464	4.6%	93	89	1,206	1,146	159	157	73	72	0	0
... Geothermal	Utility Scale Facilities	1,356	1,239	9.5%	70	64	1,246	1,149	41	27	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-325	-103	214.9%	-252	-26	-73	-78	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,072	1,020	5.0%	35	37	598	553	81	88	358	342	0	0
All Energy Sources	Utility Scale Facilities	274,876	294,577	-6.7%	142,646	156,547	120,060	125,339	968	1,046	11,201	11,645	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	3,801	3,253	16.8%	0	0	0	0	1,192	1,042	316	278	2,293	1,934
Estimated Total Solar Photovoltaic	All Facilities	11,477	9,764	17.5%	891	636	6,713	5,811	1,256	1,099	324	285	2,293	1,934
Estimated Total Solar	All Facilities	11,811	10,089	17.1%	894	641	7,044	6,130	1,256	1,099	324	285	2,293	1,934
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	23,617	33,432	-29.4%	16,922	24,481	6,542	8,781	4	6	150	165	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,149	1,397	-17.8%	872	988	236	348	12	15	29	46	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	230	182	26.2%	179	107	43	60	0	0	8	15	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	780,120	755,102	3.3%	416,058	392,685	317,179	313,252	3,526	4,039	43,357	45,126	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	813	1,044	-22.2%	104	155	41	104	26	33	642	752	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	107	160	-32.8%	6	3	14	19	11	17	76	120	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	33	75	-55.8%	3	2	8	9	0	1	23	63	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	99,410	97,156	2.3%	3,865	3,166	26,816	26,595	5,990	6,151	62,740	61,245	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	24,430	34,476	-29.1%	17,026	24,636	6,582	8,884	30	39	792	918	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,256	1,557	-19.3%	878	991	251	367	23	33	104	166	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	263	257	2.2%	182	110	50	69	0	1	31	78	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	879,530	852,258	3.2%	419,923	395,850	343,995	339,847	9,516	10,190	106,097	106,371	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	152,549	109,475	39.3%	122,308	88,960	29,690	19,891	59	55	493	568	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	26,553	28,095	-5.5%	16,301	17,155	9,049	9,227	399	400	804	1,313	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	635	633	0.3%	521	501	17	10	2	1	96	122	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for April									
	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	April 2020	April 2019	Percentage Change	April 2020	April 2019	Percentage Change	April 2020	April 2019	Percentage Change
Residential	97,440	89,864	8.4%	12,939	11,939	8.4%	13.28	13.29	-0.1%
Commercial	90,587	101,960	-11.2%	9,438	10,712	-11.9%	10.42	10.51	-0.9%
Industrial	69,480	76,413	-9.1%	4,457	4,984	-10.6%	6.41	6.52	-1.7%
Transportation	451	614	-26.5%	44	58	-24.9%	9.69	9.48	2.2%
All Sectors	257,958	268,851	-4.1%	26,877	27,693	-2.9%	10.42	10.30	1.2%

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 2020 and 2019

Net Generation and Consumption of Fuels for January through April															
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	212,403	319,637	-33.5%	158,089	235,372	52,274	81,982	83	115	1,957	2,168	0	0
Petroleum Liquids	Utility Scale Facilities	3,010	3,776	-20.3%	2,289	2,547	571	1,027	26	37	124	165	0	0
Petroleum Coke	Utility Scale Facilities	2,473	2,671	-7.4%	1,835	1,938	463	546	2	4	172	183	0	0
Natural Gas	Utility Scale Facilities	490,711	446,263	10.0%	245,173	216,958	210,060	194,848	2,659	2,735	32,818	31,722	0	0
Other Gas	Utility Scale Facilities	4,355	4,547	-4.2%	33	65	1,213	1,412	0	0	3,109	3,070	0	0
Nuclear	Utility Scale Facilities	263,322	264,076	-0.3%	144,761	140,325	118,561	123,751	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	92,403	97,065	-4.8%	83,523	87,987	8,404	8,618	71	77	406	384	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	165,383	148,683	11.2%	22,034	19,279	133,098	119,159	1,098	1,114	9,153	9,131	0	0
... Wind	Utility Scale Facilities	116,656	103,948	12.2%	17,736	15,588	98,813	88,255	68	67	40	38	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	24,530	20,227	21.3%	2,809	1,973	21,509	18,060	188	172	24	22	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	12,718	12,983	-2.0%	837	1,037	3,073	3,135	19	32	8,789	8,778	0	0
... Other Biomass	Utility Scale Facilities	6,221	6,120	1.7%	359	365	4,899	4,772	662	689	300	293	0	0
... Geothermal	Utility Scale Facilities	5,258	5,406	-2.7%	292	315	4,803	4,937	162	154	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-1,331	-1,224	8.7%	-1,041	-892	-290	-332	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	4,180	4,299	-2.8%	159	144	2,376	2,310	336	352	1,309	1,493	0	0
All Energy Sources	Utility Scale Facilities	1,236,909	1,289,793	-4.1%	656,855	703,722	526,729	533,322	4,276	4,433	49,048	48,316	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	12,113	10,139	19.5%	0	0	0	0	3,837	3,292	1,013	877	7,263	5,970
Estimated Total Solar Photovoltaic	All Facilities	35,790	29,539	21.2%	2,800	1,959	20,665	17,248	4,025	3,464	1,038	899	7,263	5,970
Estimated Total Solar	All Facilities	36,643	30,366	20.7%	2,809	1,973	21,509	18,060	4,025	3,464	1,038	899	7,263	5,970
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	121,202	178,357	-32.0%	89,316	130,817	31,172	46,754	24	32	690	754	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	5,586	6,680	-16.4%	4,319	4,683	1,074	1,759	62	67	130	170	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	962	1,060	-9.3%	740	781	173	226	1	1	49	53	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	3,534,759	3,224,656	9.6%	1,846,799	1,646,565	1,478,385	1,374,295	16,295	17,017	193,280	186,779	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	3,788	4,615	-17.9%	553	770	186	470	135	171	2,914	3,203	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	492	893	-44.9%	16	35	50	107	72	118	354	633	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	200	291	-31.1%	7	6	35	33	3	5	156	246	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	421,986	415,501	1.6%	15,730	14,651	116,342	115,198	26,998	27,569	262,917	258,082	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	124,990	182,972	-31.7%	89,869	131,587	31,357	47,225	159	203	3,605	3,957	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	6,078	7,573	-19.7%	4,335	4,719	1,124	1,866	134	185	484	803	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,162	1,351	-14.0%	746	787	208	259	4	7	205	299	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	3,956,745	3,640,157	8.7%	1,862,529	1,661,216	1,594,726	1,489,493	43,293	44,586	456,197	444,861	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through April									
	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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	Percentage Change
Residential	437,107	451,264	-3.1%	56,749	57,765	-1.8%	12.98	12.80	1.4%
Commercial	403,273	421,829	-4.4%	41,794	44,065	-5.2%	10.36	10.45	-0.9%
Industrial	299,999	304,569	-1.5%	19,175	20,182	-5.0%	6.39	6.63	-3.6%
Transportation	2,390	2,678	-10.7%	228	261	-12.6%	9.54	9.73	-2.0%
All Sectors	1,142,769	1,180,340	-3.2%	117,945	122,273	-3.5%	10.32	10.36	-0.4%

YTD = Year to Date
NM = Not meaningful due to large relative standard error.
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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.
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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, 2020 and 2019

Total (All Sectors)

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
Coal (1000 tons)	30,023	44,771	36.18	40.19	191	238	144,496	183,507	36.47	40.18
Petroleum Liquids (1000 barrels)	709	1,152	50.35	89.57	93	117	3,809	5,251	69.99	82.41
Petroleum Coke (1000 tons)	180	111	39.50	76.93	4	4	893	588	41.32	66.57
Natural Gas (1000 Mcf)	746,039	713,039	2.18	2.99	547	559	3,353,735	3,086,218	2.41	3.64

Electric Utilities

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
Coal (1000 tons)	22,438	33,151	37.97	41.45	139	162	106,887	134,043	37.47	41.51
Petroleum Liquids (1000 barrels)	432	882	50.40	89.24	60	80	2,967	3,985	70.58	82.72
Petroleum Coke (1000 tons)	180	111	39.50	76.93	4	4	893	588	41.32	66.57
Natural Gas (1000 Mcf)	374,198	348,044	2.43	3.18	282	294	1,653,221	1,482,219	2.65	3.82

Independent Power Producers

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
Coal (1000 tons)	7,115	10,991	29.49	35.58	38	59	35,345	46,956	32.46	35.62
Petroleum Liquids (1000 barrels)	258	233	49.06	92.33	23	27	734	1,151	67.05	81.46
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	311,096	302,172	1.86	2.72	219	219	1,440,931	1,343,140	2.13	3.45

Commercial Sector

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
Coal (1000 tons)	0	0	--	65.28	0	1	4	5	67.52	65.74
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	638	748	3.20	3.41	3	3	2,786	3,055	3.22	3.47

Industrial Sector

	Receipts (Physical Units)		Cost (Dollars / Physical Unit)		Number of Plants		Year-to-Date Receipts (Physical Units)		Year-to-Date Cost (Dollars / Physical Unit)	
Fuel	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
Coal (1000 tons)	471	629	51.78	54.29	14	16	2,261	2,504	51.98	54.01
Petroleum Liquids (1000 barrels)	19	36	65.79	79.74	10	10	107	115	73.39	81.24
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	60,107	62,075	1.92	2.93	43	43	256,797	257,803	2.16	3.41

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, 2020 and 2019

Total (All Sectors)

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
Coal	562,898	869,217	1.93	2.07	191	238	2,730,220	3,540,127	1.93	2.08
Petroleum Liquids	4,196	6,948	8.50	14.85	93	117	22,851	31,769	11.66	13.62
Petroleum Coke	5,150	3,159	1.38	2.71	4	4	25,426	16,818	1.45	2.33
Natural Gas	773,646	735,837	2.10	2.89	547	559	3,471,650	3,189,744	2.33	3.52
Fossil Fuels	1,345,889	1,615,161	2.04	2.49	681	704	6,250,146	6,778,458	2.18	2.79

Electric Utilities

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
Coal	430,845	643,745	1.98	2.13	139	162	2,035,019	2,592,550	1.97	2.15
Petroleum Liquids	2,574	5,352	8.46	14.71	60	80	17,889	24,217	11.71	13.61
Petroleum Coke	5,150	3,159	1.38	2.71	4	4	25,426	16,818	1.45	2.33
Natural Gas	388,483	359,063	2.34	3.09	282	294	1,710,369	1,531,616	2.56	3.70
Fossil Fuels	827,051	1,011,320	2.17	2.54	380	394	3,788,703	4,165,201	2.28	2.78

Independent Power Producers

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
Coal	122,399	212,491	1.71	1.84	38	59	648,571	895,541	1.77	1.87
Petroleum Liquids	1,507	1,373	8.39	15.69	23	27	4,305	6,850	11.43	13.69
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	322,578	312,158	1.79	2.63	219	219	1,493,871	1,389,381	2.05	3.33
Fossil Fuels	446,484	526,022	1.79	2.31	253	261	2,146,747	2,291,772	1.97	2.73

Commercial Sector

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
Coal	0	2	--	2.90	0	1	84	115	2.96	2.90
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	661	775	3.09	3.30	3	3	2,898	3,164	3.10	3.36
Fossil Fuels	661	777	3.09	3.29	3	3	2,982	3,279	3.09	3.34

Industrial Sector

							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
Coal	9,654	12,978	2.53	2.63	14	16	46,546	51,921	2.52	2.60
Petroleum Liquids	115	223	10.75	12.89	10	10	657	702	11.98	13.26
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	61,924	63,841	1.87	2.85	43	43	264,511	265,584	2.10	3.31
Fossil Fuels	71,693	77,042	1.97	2.84	45	46	311,714	318,207	2.18	3.22

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.

Chapter 1

Net Generation

Table 1.1. Net Generation by Energy Source: Total (All Sectors), 2010-April 2020
(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															
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	1,205,835	12,414	8,976	1,296,442	12,469	804,950	300,333	53,287	332,963	-6,495	13,096	4,034,271	23,990	74,008	77,277
2018	1,149,487	16,245	8,981	1,469,133	13,463	807,084	292,524	63,825	350,467	-5,905	12,973	4,178,277	29,539	89,773	93,365
2019	966,148	11,576	6,991	1,581,815	13,634	809,409	273,707	72,234	374,494	-5,261	13,302	4,118,051	35,041	104,057	107,275
Year 2018															
January	119,284	5,555	965	110,293	1,097	74,649	25,064	3,319	32,443	-547	1,109	373,230	1,619	4,810	4,938
February	82,050	804	754	98,512	1,092	64,790	24,902	3,896	29,415	-315	994	306,894	1,766	5,472	5,663
March	80,626	830	642	106,524	1,158	67,033	25,861	5,056	33,200	-490	1,108	321,547	2,434	7,233	7,490
April	73,346	872	666	98,371	1,099	59,133	28,115	6,057	32,446	-377	1,028	300,756	2,740	8,482	8,796
May	85,227	1,040	517	115,284	1,167	67,320	30,444	6,849	30,419	-390	1,070	338,948	3,011	9,430	9,860
June	101,503	1,066	834	130,826	1,091	69,688	27,597	7,415	31,193	-433	1,104	371,886	3,059	9,957	10,474
July	115,376	988	913	164,749	1,172	72,456	25,100	6,755	23,316	-644	1,111	411,290	3,146	9,521	9,901
August	115,129	1,047	879	161,676	1,301	72,282	22,017	6,695	26,601	-747	1,146	408,028	3,017	9,303	9,712
Sept	96,544	1,055	799	141,786	1,104	64,725	19,166	5,961	24,718	-603	1,004	356,258	2,674	8,205	8,635
October	87,264	1,015	562	123,142	1,016	59,397	19,548	4,970	27,426	-492	1,084	324,932	2,392	7,087	7,361
November	92,819	1,006	656	108,168	1,045	63,954	21,913	3,743	28,334	-343	1,075	322,369	1,905	5,480	5,648
December	100,319	966	795	109,802	1,120	71,657	22,797	3,110	30,956	-522	1,139	342,139	1,775	4,792	4,885
Year 2019															
January	101,008	1,358	840	119,307	1,115	73,701	24,210	3,655	31,689	-323	1,195	357,754	1,906	5,451	5,561
February	80,104	806	747	111,005	1,110	64,715	21,826	3,827	28,927	-389	1,002	313,680	2,062	5,757	5,888
March	78,516	823	639	112,945	1,251	65,080	25,546	5,910	32,399	-409	1,082	323,782	2,918	8,568	8,828
April	60,008	788	446	103,006	1,071	60,581	25,483	6,835	35,441	-103	1,020	294,577	3,253	9,764	10,089
May	71,883	943	747	116,236	1,101	67,124	30,061	7,191	32,227	-368	1,124	328,269	3,558	10,414	10,750
June	78,610	976	555	136,994	1,025	68,805	26,469	8,006	29,202	-385	1,107	351,363	3,615	11,181	11,620
July	100,981	1,029	746	174,341	1,290	72,199	23,730	8,169	28,592	-622	1,162	411,616	3,772	11,541	11,941
August	94,177	1,084	687	176,458	1,202	71,911	21,041	7,888	26,597	-579	1,199	401,665	3,623	11,098	11,510
Sept	85,918	942	638	150,753	1,139	66,064	16,324	6,752	30,558	-671	1,128	359,545	3,216	9,674	9,968
October	66,829	955	198	133,667	997	62,033	16,292	6,131	34,060	-373	1,087	321,875	2,840	8,673	8,971
November	75,560	911	339	117,762	1,196	64,125	20,520	4,377	31,319	-509	1,070	316,672	2,232	6,467	6,608
December	72,554	961	409	129,342	1,136	73,074	22,206	3,494	33,480	-529	1,126	337,253	2,046	5,471	5,541
Year 2020															
January	65,170	934	687	132,980	1,211	74,204	24,286	4,555	34,616	-406	1,084	339,320	2,293	6,733	6,848
February	56,072	749	452	126,024	1,234	65,950	25,077	5,652	35,006	-247	966	316,934	2,609	8,067	8,261
March	50,586	704	708	123,569	1,109	63,997	22,269	6,314	35,817	-353	1,058	305,779	3,409	9,513	9,723
April	40,576	624	626	108,138	801	59,170	20,771	8,010	35,415	-325	1,072	274,876	3,801	11,477	11,811
Year to Date															
2018	355,306	8,061	3,026	413,700	4,446	265,605	103,942	18,328	127,503	-1,729	4,240	1,302,428	8,559	25,997	26,888
2019	319,637	3,776	2,671	446,263	4,547	264,076	97,065	20,227	128,456	-1,224	4,299	1,289,793	10,139	29,539	30,366
2020	212,403	3,010	2,473	490,711	4,355	263,322	92,403	24,530	140,853	-1,331	4,180	1,236,909	12,113	35,790	36,643
Rolling 12 Months Ending in April															
2019	1,113,818	11,959	8,625	1,501,696	13,564	805,556	285,647	65,724	351,419	-5,399	13,033	4,165,643	31,119	93,315	96,843
2020	858,915	10,810	6,793	1,626,263	13,442	808,655	269,045	76,537	386,890	-5,368	13,183	4,065,166	37,015	110,308	113,552

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2018 and prior years are final. Values for 2019 and 2020 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), 2010-April 2020
(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													
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	254,303	50,018	3,269	41,124	11,543	6,951	3,115	15,927	300,333	686,583	23,990	74,008	77,277
2018	272,667	60,234	3,592	40,936	11,036	7,136	2,724	15,967	292,524	706,816	29,539	89,773	93,365
2019	300,071	69,017	3,217	39,851	10,075	6,104	2,382	16,011	273,707	720,435	35,041	104,057	107,275
Year 2018													
January	25,599	3,191	128	3,686	964	588	265	1,341	25,064	60,826	1,619	4,810	4,938
February	23,189	3,705	191	3,235	906	559	251	1,274	24,902	58,213	1,766	5,472	5,663
March	26,464	4,799	258	3,547	972	597	253	1,367	25,861	64,117	2,434	7,233	7,490
April	26,431	5,743	314	3,102	920	566	239	1,188	28,115	66,618	2,740	8,482	8,796
May	23,953	6,419	430	3,352	930	573	228	1,383	30,444	67,712	3,011	9,430	9,860
June	24,703	6,898	517	3,471	889	629	202	1,300	27,597	66,206	3,059	9,957	10,474
July	16,447	6,374	380	3,749	909	638	202	1,370	25,100	55,170	3,146	9,521	9,901
August	19,846	6,286	409	3,630	919	630	208	1,367	22,017	55,313	3,017	9,303	9,712
Sept	18,520	5,531	430	3,281	836	562	192	1,328	19,166	49,844	2,674	8,205	8,635
October	21,194	4,695	275	3,216	918	594	231	1,273	19,548	51,944	2,392	7,087	7,361
November	22,016	3,575	168	3,264	920	584	220	1,331	21,913	53,990	1,905	5,480	5,648
December	24,306	3,018	92	3,404	951	616	233	1,446	22,797	56,863	1,775	4,792	4,885
Year 2019													
January	25,122	3,545	111	3,533	870	529	214	1,422	24,210	59,554	1,906	5,451	5,561
February	23,000	3,695	131	3,165	798	464	192	1,308	21,826	54,580	2,062	5,757	5,888
March	26,116	5,650	260	3,257	865	492	232	1,437	25,546	63,855	2,918	8,568	8,828
April	29,711	6,511	325	3,027	791	471	202	1,239	25,483	67,760	3,253	9,764	10,089
May	25,973	6,855	336	3,365	830	528	183	1,347	30,061	69,479	3,558	10,414	10,750
June	22,947	7,566	439	3,339	846	524	184	1,362	26,469	63,677	3,615	11,181	11,620
July	22,024	7,769	400	3,569	863	538	186	1,412	23,730	60,491	3,772	11,541	11,941
August	19,869	7,475	413	3,717	864	546	192	1,409	21,041	55,526	3,623	11,098	11,510
Sept	24,385	6,458	294	3,282	824	511	171	1,384	16,324	53,634	3,216	9,674	9,968
October	28,136	5,833	298	3,081	850	500	216	1,277	16,292	56,483	2,840	8,673	8,971
November	25,603	4,235	141	3,107	816	486	196	1,112	20,520	56,216	2,232	6,467	6,608
December	27,183	3,424	70	3,407	860	515	213	1,301	22,206	59,180	2,046	5,471	5,541
Year 2020													
January	28,403	4,439	115	3,349	875	521	213	1,255	24,286	63,457	2,293	6,733	6,848
February	29,235	5,458	194	3,154	802	464	195	1,156	25,077	65,734	2,609	8,067	8,261
March	29,483	6,104	210	3,223	879	535	206	1,490	22,269	64,400	3,409	9,513	9,723
April	29,534	7,676	334	2,992	838	505	189	1,356	20,771	64,195	3,801	11,477	11,811
Year to Date													
2018	101,683	17,437	891	13,570	3,763	2,310	1,007	5,170	103,942	249,774	8,559	25,997	26,888
2019	103,948	19,400	827	12,983	3,323	1,956	840	5,406	97,065	245,749	10,139	29,539	30,366
2020	116,656	23,677	853	12,718	3,392	2,025	803	5,258	92,403	257,787	12,113	35,790	36,643
Rolling 12 Months Ending in April													
2019	274,933	62,196	3,528	40,348	10,596	6,782	2,557	16,203	285,647	702,791	31,119	93,315	96,843
2020	312,778	73,293	3,244	39,587	10,145	6,174	2,345	15,863	269,045	732,473	37,015	110,308	113,552

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.
Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2018 and prior years are final. Values for 2019 and 2020 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, 2010-April 2020
(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												
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	893,639	8,567	6,711	623,834	149	424,485	275,677	3,348	42,763	-5,448	553	2,274,279
2018	863,505	10,108	6,817	720,206	151	424,251	267,336	4,916	44,184	-4,785	561	2,337,250
2019	722,333	8,182	5,112	782,470	154	430,672	249,707	6,547	49,499	-4,261	491	2,250,906
Year 2018												
January	88,718	2,491	770	55,797	26	39,366	23,106	288	4,399	-475	41	214,525
February	61,138	617	575	48,715	17	33,941	22,864	314	3,853	-226	38	171,847
March	58,606	595	491	52,161	16	35,262	23,638	446	4,276	-408	48	175,132
April	55,281	632	477	48,151	28	30,580	25,598	480	4,120	-295	39	165,093
May	64,034	745	336	58,251	11	34,479	28,055	463	3,427	-309	45	189,538
June	77,899	756	670	66,774	13	36,437	25,778	503	3,691	-339	50	212,232
July	88,102	668	716	81,297	15	38,293	23,303	477	2,824	-522	55	235,229
August	87,359	711	686	78,025	24	38,885	20,050	476	3,122	-626	56	228,767
Sept	73,021	781	639	68,655	3	34,377	17,368	436	3,288	-500	47	198,116
October	64,902	751	378	59,071	0	31,364	17,571	418	3,447	-405	43	177,541
November	68,864	703	477	51,796	0	33,043	19,630	325	3,631	-254	50	178,265
December	75,578	657	601	51,512	0	38,223	20,373	290	4,105	-426	49	190,963
Year 2019												
January	74,996	855	634	57,279	12	39,806	21,811	369	4,209	-247	42	199,767
February	59,589	561	564	54,489	22	34,243	19,786	386	3,636	-310	33	172,999
March	56,546	597	464	54,667	31	34,213	23,153	577	4,437	-309	33	174,409
April	44,241	534	276	50,523	0	32,063	23,235	641	5,024	-26	37	156,547
May	55,081	671	552	58,730	0	35,416	27,682	661	4,199	-305	44	182,728
June	60,148	724	398	69,984	23	36,847	24,285	638	3,886	-299	41	196,676
July	77,053	715	551	87,423	18	39,023	21,637	655	3,625	-505	40	230,233
August	71,916	809	501	89,675	16	39,218	19,389	616	3,175	-470	51	224,895
Sept	64,867	693	460	75,933	10	34,770	14,984	616	4,111	-583	43	195,903
October	49,122	698	146	66,403	0	32,289	14,927	547	4,621	-316	43	168,480
November	55,304	632	251	56,310	19	32,923	18,763	454	4,149	-424	41	168,422
December	53,470	693	315	61,054	2	39,861	20,054	387	4,428	-465	44	179,844
Year 2020												
January	48,438	757	493	64,603	0	40,721	22,070	531	4,450	-354	42	181,751
February	41,609	588	366	63,018	8	36,079	22,902	606	4,999	-182	41	170,033
March	38,276	492	521	62,528	19	35,133	19,997	779	4,891	-252	41	162,425
April	29,767	451	455	55,024	6	32,827	18,554	894	4,884	-252	35	142,646
Year to Date												
2018	263,744	4,335	2,313	204,824	87	139,150	95,207	1,528	16,649	-1,404	166	726,597
2019	235,372	2,547	1,938	216,958	65	140,325	87,987	1,973	17,306	-892	144	703,722
2020	158,089	2,289	1,835	245,173	33	144,761	83,523	2,809	19,225	-1,041	159	656,855
Rolling 12 Months Ending in April												
2019	835,133	8,320	6,442	732,339	129	425,427	260,116	5,361	44,841	-4,273	540	2,314,374
2020	645,049	7,923	5,010	810,686	121	435,107	245,244	7,383	51,418	-4,409	506	2,204,038

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-April 2020
(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												
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	304,198	3,281	1,480	572,919	3,978	380,465	23,034	49,376	258,962	-1,047	6,527	1,603,174
2018	278,668	5,487	1,516	645,616	3,935	382,833	23,812	58,337	275,154	-1,119	6,677	1,680,917
2019	237,174	2,842	1,212	692,263	4,152	378,738	22,670	65,000	294,607	-1,000	7,217	1,704,875
Year 2018												
January	29,839	2,951	137	45,672	318	35,283	1,856	3,000	25,364	-72	575	144,924
February	20,261	133	126	41,986	320	30,849	1,929	3,549	23,179	-89	543	122,786
March	21,377	186	96	46,436	331	31,770	2,114	4,563	26,260	-82	564	133,615
April	17,506	199	137	42,464	326	28,553	2,392	5,522	25,872	-82	527	123,416
May	20,600	248	124	48,762	379	32,841	2,264	6,325	24,380	-81	526	136,366
June	22,994	268	100	55,398	303	33,251	1,724	6,845	24,920	-95	582	146,291
July	26,647	260	139	73,967	344	34,163	1,700	6,214	17,729	-123	586	161,625
August	27,157	292	139	74,126	369	33,398	1,858	6,158	20,775	-121	579	164,730
Sept	22,941	233	108	64,337	328	30,348	1,692	5,475	18,927	-103	515	144,800
October	21,834	218	126	55,462	255	28,033	1,855	4,508	21,450	-87	556	134,209
November	23,393	245	140	47,623	311	30,911	2,150	3,386	22,175	-88	551	130,797
December	24,120	254	144	49,384	350	33,434	2,277	2,792	24,124	-96	574	137,357
Year 2019												
January	25,372	446	153	52,632	368	33,895	2,277	3,249	24,851	-76	629	143,797
February	19,948	197	139	48,354	355	30,472	1,936	3,405	22,900	-79	547	128,174
March	21,413	180	131	49,673	350	30,867	2,272	5,275	25,371	-100	581	136,013
April	15,249	204	124	44,189	339	28,518	2,134	6,130	27,977	-78	553	125,339
May	16,283	230	143	49,034	338	31,708	2,252	6,462	25,563	-63	632	132,582
June	17,943	209	103	58,397	325	31,958	2,066	7,292	22,771	-86	618	141,596
July	23,342	274	NM	77,551	390	33,176	1,983	7,434	22,317	-118	640	167,067
August	21,688	224	131	77,290	388	32,693	1,549	7,196	20,725	-109	644	162,420
Sept	20,506	203	118	65,876	349	31,294	1,247	6,072	24,018	-88	595	150,188
October	17,179	216	9	58,402	227	29,744	1,270	5,529	27,011	-56	588	140,120
November	19,706	233	41	52,187	352	31,202	1,651	3,881	24,675	-84	580	134,423
December	18,545	226	42	58,680	372	33,212	2,034	3,073	26,428	-64	610	143,158
Year 2020												
January	16,173	134	140	58,568	387	33,483	2,097	3,985	27,562	-52	611	143,088
February	13,937	122	40	54,135	389	29,871	2,058	5,000	27,573	-65	547	133,608
March	11,806	175	141	52,171	294	28,864	2,152	5,480	28,371	-101	620	129,973
April	10,358	140	142	45,187	143	26,343	2,096	7,044	28,082	-73	598	120,060
Year to Date												
2018	88,983	3,470	496	176,558	1,296	126,455	8,291	16,634	100,675	-325	2,209	524,741
2019	81,982	1,027	546	194,848	1,412	123,751	8,618	18,060	101,099	-332	2,310	533,322
2020	52,274	571	463	210,060	1,213	118,561	8,404	21,509	111,588	-290	2,376	526,729
Rolling 12 Months Ending in April												
2019	271,668	3,045	1,567	663,906	4,050	380,129	24,139	59,763	275,579	-1,126	6,778	1,689,498
2020	207,466	2,386	NM	707,476	3,953	373,547	22,455	68,449	305,097	-958	7,283	1,698,283

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-April 2020
(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															
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	329	103	8	8,042	0	0	240	521	2,729	0	1,088	13,060	7,685	8,206	8,206
2018	303	132	7	8,419	0	0	227	525	2,688	0	1,010	13,312	9,798	10,324	10,324
2019	275	112	5	8,647	0	0	211	608	2,701	0	1,065	13,624	11,097	11,705	11,705
Year 2018															
January	40	41	1	671	0	0	19	29	229	0	84	1,114	552	581	581
February	32	7	1	626	0	0	19	31	206	0	72	995	605	636	636
March	27	7	1	647	0	0	21	43	227	0	83	1,058	820	863	863
April	24	8	0	585	0	0	24	50	217	0	81	989	907	957	957
May	21	7	0	656	0	0	24	57	221	0	90	1,076	992	1,048	1,048
June	20	7	0	737	0	0	21	62	224	0	92	1,163	1,003	1,065	1,065
July	21	11	0	875	0	0	19	59	223	0	90	1,298	1,036	1,094	1,094
August	23	9	0	892	0	0	17	56	230	0	90	1,318	993	1,049	1,049
Sept	24	7	1	771	0	0	16	46	213	0	80	1,156	893	938	938
October	20	7	1	668	0	0	14	39	223	0	83	1,055	786	826	826
November	25	12	1	622	0	0	16	29	212	0	77	993	623	652	652
December	24	9	1	669	0	0	17	25	262	0	88	1,095	589	614	614
Year 2019															
January	33	13	1	719	0	0	NM	32	255	0	94	1,167	632	665	665
February	28	8	1	670	0	0	NM	32	228	0	80	1,064	680	711	711
March	32	8	1	702	0	0	NM	51	253	0	89	1,157	938	990	990
April	21	7	1	644	0	0	NM	57	206	0	88	1,046	1,042	1,099	1,099
May	19	8	0	682	0	0	NM	61	200	0	90	1,084	1,121	1,182	1,182
June	14	7	0	690	0	0	21	67	217	0	92	1,106	1,130	1,196	1,196
July	NM	10	0	813	0	0	NM	70	226	0	91	1,247	1,184	1,254	1,254
August	18	13	0	841	0	0	NM	67	219	0	93	1,268	1,128	1,196	1,196
Sept	21	11	0	738	0	0	NM	57	213	0	90	1,141	1,006	1,063	1,063
October	20	10	0	701	0	0	NM	48	227	0	83	1,099	890	937	937
November	21	9	0	710	0	0	NM	37	225	0	82	1,099	688	725	725
December	26	9	1	738	0	0	16	30	234	0	92	1,145	658	688	688
Year 2020															
January	22	9	2	753	0	0	NM	34	229	0	90	1,157	732	767	767
February	28	5	1	676	0	0	NM	41	224	0	79	1,075	830	871	871
March	21	7	0	657	0	0	16	49	239	0	86	1,076	1,083	1,131	1,131
April	12	5	0	573	0	0	16	64	219	0	81	968	1,192	1,256	1,256
Year to Date															
2018	124	64	4	2,528	0	0	83	153	880	0	321	4,157	2,883	3,036	3,036
2019	115	37	4	2,735	0	0	77	172	942	0	352	4,433	3,292	3,464	3,464
2020	83	26	2	2,659	0	0	71	188	911	0	336	4,276	3,837	4,025	4,025
Rolling 12 Months Ending in April															
2019	293	106	8	8,625	0	0	NM	545	2,750	0	1,041	13,589	10,207	10,752	10,752
2020	NM	102	3	8,572	0	0	NM	623	2,670	0	1,049	13,467	11,642	12,265	12,265

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.
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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, 2010-April 2020
(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															
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	7,669	463	776	91,647	8,343	0	1,382	42	28,508	0	4,928	143,758	2,364	2,406	2,406
2018	7,011	517	640	94,892	9,377	0	1,149	47	28,440	0	4,725	146,798	2,636	2,683	2,683
2019	6,367	440	662	98,434	9,328	0	1,120	79	27,686	0	4,530	148,645	3,041	3,120	3,120
Year 2018															
January	687	73	57	8,153	752	0	83	2	2,450	0	410	12,668	146	149	149
February	619	47	52	7,184	755	0	89	3	2,177	0	340	11,265	155	158	158
March	616	41	54	7,280	811	0	87	4	2,437	0	413	11,742	221	225	225
April	535	33	51	7,172	744	0	102	4	2,237	0	380	11,258	241	245	245
May	572	41	56	7,614	778	0	101	5	2,390	0	409	11,967	267	271	271
June	590	34	64	7,918	775	0	74	5	2,358	0	381	12,199	268	273	273
July	606	49	57	8,609	813	0	78	5	2,540	0	381	13,138	277	282	282
August	590	35	54	8,634	909	0	91	5	2,474	0	421	13,212	268	273	273
Sept	558	34	51	8,022	773	0	90	4	2,290	0	363	12,185	242	247	247
October	507	39	58	7,941	762	0	108	4	2,307	0	402	12,127	220	224	224
November	536	46	38	8,127	734	0	116	3	2,318	0	396	12,313	174	177	177
December	596	46	49	8,237	771	0	130	2	2,464	0	429	12,724	157	160	160
Year 2019															
January	607	44	52	8,677	734	0	102	4	2,374	0	429	13,023	168	172	172
February	539	40	42	7,492	734	0	87	4	2,164	0	343	11,443	178	182	182
March	525	38	43	7,903	870	0	101	6	2,338	0	379	12,204	254	261	261
April	497	42	46	7,650	733	0	94	7	2,234	0	342	11,645	278	285	285
May	500	34	52	7,791	764	0	102	8	2,266	0	358	11,874	309	316	316
June	504	36	54	7,923	677	0	97	9	2,329	0	357	11,985	311	319	319
July	566	30	118	8,554	882	0	94	9	2,424	0	391	13,068	321	330	330
August	555	38	55	8,651	798	0	87	8	2,479	0	411	13,082	311	319	319
Sept	525	35	60	8,206	781	0	81	7	2,217	0	400	12,313	281	289	289
October	508	31	42	8,161	770	0	83	6	2,202	0	373	12,176	255	261	261
November	529	36	47	8,556	825	0	91	5	2,271	0	367	12,727	198	203	203
December	513	34	51	8,870	762	0	102	4	2,390	0	380	13,105	179	183	183
Year 2020															
January	538	34	52	9,056	824	0	100	4	2,375	0	341	13,324	192	196	196
February	497	33	NM	8,195	836	0	97	5	2,209	0	298	12,218	213	218	218
March	483	30	46	8,213	796	0	104	7	2,315	0	311	12,305	293	300	300
April	439	27	28	7,354	653	0	104	8	2,230	0	358	11,201	316	324	324
Year to Date															
2018	2,455	193	214	29,789	3,063	0	361	13	9,300	0	1,544	46,933	763	777	777
2019	2,168	165	183	31,722	3,070	0	384	22	9,109	0	1,493	48,316	877	899	899
2020	1,957	124	172	32,818	3,109	0	406	24	9,129	0	1,309	49,048	1,013	1,038	1,038
Rolling 12 Months Ending in April															
2019	6,724	489	609	96,825	9,384	0	1,171	56	28,250	0	4,674	148,181	2,750	2,806	2,806
2020	6,157	399	NM	99,529	9,367	0	1,142	81	27,705	0	4,345	149,378	3,177	3,259	3,259

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 2018 and prior years are final. Values for 2019 and 2020 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.E. Net Generation by Energy Source: Residential Sector, 2014-April 2020
(Thousand Megawatthours)

	Small Scale Generation
Period	Estimated Small Scale Solar Photovoltaic Generation
Annual Totals	
2014	4,947
2015	6,999
2016	10,595
2017	13,942
2018	17,105
2019	20,902
Year 2018	
January	921
February	1,007
March	1,393
April	1,592
May	1,753
June	1,788
July	1,834
August	1,756
Sept	1,539
October	1,385
November	1,108
December	1,029
Year 2019	
January	1,106
February	1,204
March	1,726
April	1,934
May	2,129
June	2,174
July	2,267
August	2,183
Sept	1,929
October	1,696
November	1,346
December	1,209
Year 2020	
January	1,369
February	1,566
March	2,034
April	2,293
Year to Date	
2018	4,913
2019	5,970
2020	7,263
Rolling 12 Months Ending in April	
2019	18,162
2020	22,195

See Glossary for definitions. Values for 2018 and prior years are final. Values for 2019 and 2020 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, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	6,139	7,343	-16.4%	156	165	5,674	6,861	82	94	227	224
Connecticut	2,895	2,560	13.1%	9	9	2,818	2,481	NM	28	44	42
Maine	851	816	4.3%	NM	0	685	656	7	10	159	149
Massachusetts	1,059	1,820	-41.8%	43	44	958	1,710	42	45	16	21
New Hampshire	558	1,420	-60.7%	35	42	517	1,369	4	6	1	3
Rhode Island	580	538	7.7%	0	0	568	525	5	4	NM	NM
Vermont	198	189	4.8%	69	69	128	119	0	0	0	0
Middle Atlantic	28,263	30,224	-6.5%	2,810	2,556	25,030	27,171	159	177	264	321
New Jersey	4,339	5,369	-19.2%	-10	10	4,260	5,256	45	48	44	55
New York	9,234	9,183	0.6%	2,805	2,533	6,276	6,484	87	96	67	70
Pennsylvania	14,690	15,672	-6.3%	15	12	14,494	15,431	27	33	154	196
East North Central	36,638	43,305	-15.4%	10,869	15,841	24,767	26,457	118	139	885	869
Illinois	12,246	13,957	-12.3%	210	331	11,795	13,397	30	30	210	199
Indiana	6,105	8,224	-25.8%	3,627	5,857	2,130	2,004	11	25	338	338
Michigan	6,451	8,468	-23.8%	3,377	5,413	2,902	2,870	54	57	118	127
Ohio	7,701	8,226	-6.4%	646	808	6,979	7,344	10	13	66	61
Wisconsin	4,136	4,431	-6.7%	3,010	3,431	961	842	13	14	153	144
West North Central	22,883	23,827	-4.0%	16,047	17,461	6,513	6,037	40	47	282	283
Iowa	4,271	4,654	-8.2%	2,903	3,269	1,210	1,205	11	17	147	164
Kansas	3,961	3,665	8.1%	2,035	1,843	1,905	1,817	NM	NM	20	NM
Minnesota	3,654	4,151	-12.0%	2,409	2,939	1,147	1,104	14	13	85	95
Missouri	4,237	4,717	-10.2%	3,794	4,307	428	393	12	14	3	3
Nebraska	2,608	2,669	-2.3%	1,892	1,979	700	684	2	1	15	5
North Dakota	3,087	2,893	6.7%	2,334	2,254	740	626	NM	NM	12	12
South Dakota	1,065	1,078	-1.2%	681	870	384	208	NM	NM	0	0
South Atlantic	56,915	57,527	-1.1%	46,126	46,614	9,066	9,240	142	161	1,582	1,512
Delaware	390	337	15.8%	NM	NM	283	236	1	1	106	100
District of Columbia	7	9	-21.4%	0	0	NM	NM	5	7	0	0
Florida	19,345	18,042	7.2%	18,063	16,820	853	812	6	6	423	404
Georgia	8,062	9,754	-17.3%	6,040	8,033	1,588	1,313	NM	0	434	407
Maryland	2,914	2,911	0.1%	274	191	2,557	2,606	78	91	5	24
North Carolina	7,983	8,059	-0.9%	6,269	6,606	1,540	1,280	22	23	153	150
South Carolina	6,979	7,828	-10.8%	6,622	7,493	200	187	0	0	157	148
Virginia	7,877	6,452	22.1%	5,996	4,462	1,647	1,769	30	33	204	189
West Virginia	3,358	4,134	-18.8%	2,862	3,008	397	1,035	0	0	99	92
East South Central	21,801	24,427	-10.7%	18,934	20,465	2,102	3,203	NM	15	750	744
Alabama	9,195	9,600	-4.2%	7,028	6,758	1,778	2,479	0	0	390	363
Kentucky	3,626	4,130	-12.2%	3,571	4,074	6	11	0	0	49	44
Mississippi	4,196	5,061	-17.1%	3,772	4,235	273	669	0	0	152	156
Tennessee	4,784	5,637	-15.1%	4,564	5,398	45	43	NM	15	158	181
West South Central	50,362	51,133	-1.5%	15,051	15,330	29,616	29,505	69	72	5,627	6,226
Arkansas	2,775	3,861	-28.1%	2,495	3,546	185	167	NM	NM	91	144
Louisiana	7,999	7,723	3.6%	5,379	4,526	381	575	15	14	2,224	2,608
Oklahoma	5,908	6,083	-2.9%	2,328	2,585	3,499	3,454	0	0	81	44
Texas	33,680	33,466	0.6%	4,849	4,674	25,551	25,308	49	55	3,232	3,430
Mountain	24,407	25,594	-4.6%	17,387	18,582	6,685	6,720	85	72	249	220
Arizona	7,000	7,662	-8.6%	5,801	6,241	1,186	1,409	12	12	0	0
Colorado	4,006	4,165	-3.8%	2,900	3,051	1,096	1,106	3	3	6	6
Idaho	1,163	1,352	-14.0%	606	772	502	530	4	3	51	47
Montana	1,844	1,938	-4.9%	702	881	1,139	1,055	0	0	2	NM
Nevada	2,925	2,749	6.4%	1,824	1,739	1,033	957	50	39	17	15
New Mexico	2,481	2,544	-2.5%	1,350	1,487	1,124	1,048	NM	NM	0	0
Utah	2,059	2,256	-8.7%	1,686	1,887	328	317	8	7	38	45
Wyoming	2,930	2,927	0.1%	2,518	2,525	277	297	0	0	136	105
Pacific Contiguous	26,306	29,981	-12.3%	14,537	18,785	10,254	9,770	207	210	1,308	1,216
California	14,098	16,468	-14.4%	5,004	7,713	7,825	7,493	198	201	1,070	1,061
Oregon	4,472	5,030	-11.1%	2,718	3,647	1,686	1,321	6	6	62	55
Washington	7,736	8,484	-8.8%	6,814	7,424	743	956	2	3	177	101
Pacific Noncontiguous	1,160	1,217	-4.6%	729	750	353	376	50	59	28	31
Alaska	463	459	0.7%	411	407	20	19	22	NM	9	9
Hawaii	698	757	-7.9%	318	343	333	357	28	35	18	22
U.S. Total	274,876	294,577	-6.7%	142,646	156,547	120,060	125,339	968	1,046	11,201	11,645

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 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	30,759	32,926	-6.6%	716	881	28,629	30,677	425	442	990	927
Connecticut	13,670	12,304	11.1%	27	34	13,289	11,946	132	134	222	191
Maine	3,385	3,534	-4.2%	NM	0	2,721	2,898	38	49	626	588
Massachusetts	5,527	8,510	-35.1%	173	166	5,050	8,037	218	215	86	91
New Hampshire	4,860	5,663	-14.2%	199	376	4,633	5,250	20	27	9	10
Rhode Island	2,496	2,124	17.5%	0	0	2,433	2,060	16	16	47	48
Vermont	821	792	3.8%	317	304	503	486	1	1	0	0
Middle Atlantic	133,888	137,378	-2.5%	11,529	10,999	120,257	124,181	723	728	1,379	1,469
New Jersey	19,237	22,487	-14.5%	-23	26	18,831	22,044	187	177	242	241
New York	42,080	40,364	4.2%	11,503	10,918	29,863	28,723	411	414	303	309
Pennsylvania	72,572	74,526	-2.6%	50	55	71,564	73,415	125	137	833	919
East North Central	173,563	195,267	-11.1%	58,431	72,865	110,777	118,009	566	601	3,789	3,793
Illinois	53,393	61,043	-12.5%	1,602	1,571	50,760	58,435	133	129	898	908
Indiana	27,707	35,715	-22.4%	16,340	25,113	9,746	9,023	77	82	1,544	1,496
Michigan	34,793	38,127	-8.7%	21,452	25,765	12,619	11,560	242	272	480	530
Ohio	37,718	40,010	-5.7%	3,759	4,508	33,645	35,181	64	69	250	251
Wisconsin	19,953	20,373	-2.1%	15,278	15,908	4,007	3,809	51	49	617	607
West North Central	106,991	112,680	-5.0%	79,349	89,033	26,137	22,148	193	215	1,312	1,284
Iowa	18,920	21,442	-11.8%	13,232	16,193	4,950	4,506	65	75	673	667
Kansas	16,519	16,752	-1.4%	9,134	10,264	7,296	6,446	NM	NM	83	37
Minnesota	17,428	18,754	-7.1%	12,467	14,336	4,534	3,916	60	69	368	433
Missouri	22,549	25,610	-12.0%	20,432	23,840	2,045	1,699	56	58	16	13
Nebraska	12,243	12,166	0.6%	9,243	9,630	2,876	2,448	6	6	118	83
North Dakota	14,461	13,659	5.9%	11,451	11,234	2,956	2,372	NM	NM	54	51
South Dakota	4,871	4,297	13.4%	3,391	3,536	1,480	761	NM	NM	0	0
South Atlantic	241,326	243,113	-0.7%	198,530	201,018	35,885	35,311	586	610	6,327	6,174
Delaware	1,282	1,350	-5.0%	1	2	842	947	2	2	437	399
District of Columbia	39	34	14.6%	0	0	5	4	34	30	0	0
Florida	75,042	70,527	6.4%	69,769	65,966	3,650	2,904	25	24	1,597	1,633
Georgia	33,699	36,399	-7.4%	26,554	30,452	5,389	4,272	NM	1	1,755	1,673
Maryland	11,299	12,786	-11.6%	1,182	1,578	9,789	10,769	313	341	15	97
North Carolina	37,587	38,273	-1.8%	31,220	32,377	5,661	5,224	90	93	616	580
South Carolina	31,648	32,305	-2.0%	30,327	31,092	697	609	1	1	623	602
Virginia	34,564	31,082	11.2%	27,076	24,136	6,538	6,049	119	118	830	779
West Virginia	16,166	20,358	-20.6%	12,400	15,415	3,313	4,533	0	0	453	410
East South Central	105,407	112,619	-6.4%	90,205	96,125	11,998	13,431	77	71	3,126	2,992
Alabama	41,883	43,995	-4.8%	30,144	32,077	10,142	10,399	0	0	1,598	1,518
Kentucky	18,730	22,740	-17.6%	18,496	22,435	34	124	0	0	199	182
Mississippi	20,093	19,557	2.7%	17,797	16,190	1,679	2,782	0	0	617	585
Tennessee	24,701	26,326	-6.2%	23,769	25,423	143	126	77	71	712	706
West South Central	215,327	215,869	-0.3%	65,776	69,424	123,323	120,502	309	339	25,919	25,605
Arkansas	14,833	19,650	-24.5%	12,970	17,452	1,443	1,585	19	NM	401	599
Louisiana	32,924	29,519	11.5%	21,376	16,160	1,427	2,562	62	55	10,059	10,741
Oklahoma	25,855	25,601	1.0%	10,472	11,874	15,070	13,461	0	0	314	267
Texas	141,715	141,099	0.4%	20,959	23,937	105,384	102,894	228	269	15,144	13,999
Mountain	108,320	116,505	-7.0%	80,372	89,232	26,561	25,982	340	333	1,047	958
Arizona	30,199	33,791	-10.6%	25,236	29,504	4,916	4,238	47	49	0	0
Colorado	17,814	18,299	-2.7%	13,180	14,057	4,595	4,208	15	9	25	26
Idaho	5,983	5,306	12.7%	3,674	3,438	2,085	1,666	17	15	207	188
Montana	8,289	9,575	-13.4%	3,542	3,504	4,734	6,059	0	0	13	11
Nevada	11,912	11,681	2.0%	7,808	7,787	3,818	3,609	199	193	87	91
New Mexico	10,851	10,624	2.1%	6,561	6,531	4,249	4,059	31	34	10	0
Utah	10,516	12,687	-17.1%	9,244	11,331	1,089	1,135	32	33	150	188
Wyoming	12,757	14,541	-12.3%	11,127	13,081	1,075	1,008	0	0	555	453
Pacific Contiguous	116,190	118,521	-2.0%	68,400	70,867	41,913	41,804	834	860	5,043	4,990
California	56,677	62,506	-9.3%	20,645	26,530	30,951	30,800	800	825	4,282	4,351
Oregon	22,974	21,508	6.8%	15,859	15,380	6,841	5,889	26	24	248	214
Washington	36,539	34,507	5.9%	31,896	28,957	4,121	5,115	8	11	513	424
Pacific Noncontiguous	5,136	4,914	4.5%	3,546	3,279	1,249	1,277	222	235	119	124
Alaska	2,183	1,961	11.3%	1,956	1,743	83	75	104	102	40	40
Hawaii	2,953	2,953	0.0%	1,590	1,535	1,167	1,201	118	133	78	83
U.S. Total	1,236,909	1,289,793	-4.1%	656,855	703,722	526,729	533,322	4,276	4,433	49,048	48,316

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

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	2	5	-70.7%	0	0	1	3	0	0	NM	NM
Connecticut	-2	-2	-4.1%	0	0	-2	-2	0	0	0	0
Maine	4	7	-49.9%	0	0	3	5	0	0	NM	NM
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	-100.0%	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	1,451	3,319	-56.3%	0	0	1,447	3,307	0	0	3	12
New Jersey	78	80	-2.7%	0	0	78	80	0	0	0	0
New York	0	9	-100.0%	0	0	0	9	0	0	0	0
Pennsylvania	1,373	3,230	-57.5%	0	0	1,369	3,218	0	0	3	12
East North Central	8,445	15,209	-44.5%	4,871	9,454	3,421	5,583	NM	7	153	165
Illinois	1,455	3,128	-53.5%	13	172	1,318	2,831	NM	NM	124	124
Indiana	2,874	5,199	-44.7%	2,522	4,876	352	318	0	6	0	0
Michigan	953	2,582	-63.1%	918	2,556	32	19	0	0	NM	NM
Ohio	1,868	2,585	-27.7%	150	170	1,718	2,415	0	0	0	0
Wisconsin	1,294	1,714	-24.5%	1,269	1,681	0	0	0	0	26	34
West North Central	7,412	9,370	-20.9%	7,280	9,198	0	0	1	4	131	168
Iowa	545	894	-39.0%	449	766	0	0	1	4	96	125
Kansas	823	613	34.3%	823	613	0	0	0	0	0	0
Minnesota	429	1,106	-61.2%	416	1,075	0	0	0	0	12	31
Missouri	2,661	3,753	-29.1%	2,661	3,752	0	0	0	0	0	0
Nebraska	1,171	1,239	-5.5%	1,156	1,233	0	0	0	0	15	5
North Dakota	1,636	1,542	6.2%	1,629	1,535	0	0	0	0	NM	NM
South Dakota	146	223	-34.7%	146	223	0	0	0	0	0	0
South Atlantic	5,601	9,350	-40.1%	5,413	8,449	135	852	2	3	50	46
Delaware	-3	-3	-2.1%	0	0	-3	-3	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	888	1,247	-28.8%	884	1,242	0	0	0	0	NM	6
Georgia	465	1,723	-73.0%	443	1,712	0	0	0	0	NM	NM
Maryland	89	103	-13.6%	0	0	89	97	0	0	0	6
North Carolina	737	1,599	-53.9%	715	1,579	8	7	2	3	11	10
South Carolina	492	888	-44.6%	491	888	0	0	0	0	1	0
Virginia	99	108	-8.8%	87	95	-1	0	0	0	13	13
West Virginia	2,835	3,685	-23.1%	2,793	2,934	NM	751	0	0	0	0
East South Central	3,598	6,284	-42.8%	3,340	5,964	227	279	0	0	30	42
Alabama	913	1,536	-40.6%	907	1,534	0	0	0	0	NM	2
Kentucky	2,270	2,857	-20.5%	2,270	2,857	0	0	0	0	0	0
Mississippi	223	565	-60.6%	-4	287	227	279	0	0	0	0
Tennessee	192	1,326	-85.5%	167	1,286	0	0	0	0	25	40
West South Central	6,713	7,719	-13.0%	2,688	3,739	4,011	3,974	0	0	14	7
Arkansas	718	824	-12.8%	666	798	50	24	0	0	3	3
Louisiana	228	391	-41.8%	216	279	12	113	0	0	0	0
Oklahoma	234	476	-50.9%	150	472	73	0	0	0	11	4
Texas	5,533	6,027	-8.2%	1,657	2,190	3,876	3,837	0	0	0	0
Mountain	7,173	8,354	-14.1%	6,142	7,420	999	905	0	0	32	29
Arizona	552	1,276	-56.8%	552	1,276	0	0	0	0	0	0
Colorado	1,443	1,662	-13.1%	1,443	1,661	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	862	786	9.7%	19	26	843	760	0	0	NM	NM
Nevada	59	86	-31.2%	-3	17	62	69	0	0	0	0
New Mexico	703	946	-25.7%	703	946	0	0	0	0	0	0
Utah	1,234	1,285	-4.0%	1,197	1,267	37	19	0	0	0	0
Wyoming	2,318	2,311	0.3%	2,230	2,227	57	58	0	0	30	26
Pacific Contiguous	24	247	-90.4%	0	0	0	220	0	0	24	27
California	22	24	-10.1%	0	0	0	0	0	0	22	24
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2	222	-99.3%	0	0	0	220	0	0	2	3
Pacific Noncontiguous	160	151	5.8%	33	NM	118	127	8	NM	0	0
Alaska	56	37	52.2%	33	NM	15	NM	8	NM	0	0
Hawaii	104	114	-9.1%	0	0	104	114	0	0	0	0
U.S. Total	40,576	60,008	-32.4%	29,767	44,241	10,358	15,249	12	21	439	497

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

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

by State, by Sector, Year-to-Date through April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	66	269	-75.3%	49	171	11	88	0	0	NM	10
Connecticut	-9	63	-114.7%	0	0	-9	63	0	0	0	0
Maine	27	36	-25.3%	0	0	20	25	0	0	NM	10
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	49	171	-71.3%	49	171	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	7,993	15,788	-49.4%	0	0	7,973	15,743	0	0	20	45
New Jersey	314	368	-14.8%	0	0	314	368	0	0	0	0
New York	144	342	-58.0%	0	0	144	342	0	0	0	0
Pennsylvania	7,535	15,078	-50.0%	0	0	7,516	15,033	0	0	20	45
East North Central	49,205	79,398	-38.0%	28,227	46,029	20,316	32,630	12	26	650	713
Illinois	8,372	18,017	-53.5%	516	1,273	7,324	16,194	5	12	526	538
Indiana	13,310	22,283	-40.3%	11,763	20,920	1,541	1,350	7	14	0	0
Michigan	7,632	13,184	-42.1%	7,485	13,072	133	86	0	0	14	25
Ohio	12,628	16,721	-24.5%	1,309	1,719	11,318	15,000	0	0	0	1
Wisconsin	7,264	9,193	-21.0%	7,155	9,044	0	0	0	0	109	149
West North Central	42,183	55,040	-23.4%	41,512	54,301	0	0	20	30	651	709
Iowa	3,707	7,791	-52.4%	3,239	7,297	0	0	17	24	452	470
Kansas	4,193	5,492	-23.6%	4,193	5,492	0	0	0	0	0	0
Minnesota	3,687	6,152	-40.1%	3,637	6,025	0	0	0	1	50	126
Missouri	15,419	19,381	-20.4%	15,416	19,376	0	0	3	5	0	0
Nebraska	6,218	6,725	-7.5%	6,100	6,642	0	0	0	0	118	83
North Dakota	8,297	8,471	-2.1%	8,265	8,440	0	0	0	0	32	31
South Dakota	663	1,029	-35.5%	663	1,029	0	0	0	0	0	0
South Atlantic	27,370	44,155	-38.0%	24,662	38,610	2,511	5,300	16	26	183	220
Delaware	-11	32	-136.2%	0	0	-11	32	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,408	5,570	-38.8%	3,394	5,546	0	0	0	0	NM	24
Georgia	1,976	6,370	-69.0%	1,910	6,307	0	0	0	0	66	63
Maryland	402	1,513	-73.4%	0	0	402	1,487	0	0	0	26
North Carolina	3,836	6,720	-42.9%	3,743	6,568	31	85	14	22	48	44
South Carolina	2,925	4,315	-32.2%	2,923	4,311	0	0	0	0	2	4
Virginia	652	938	-30.4%	592	777	7	99	1	4	52	58
West Virginia	14,182	18,698	-24.2%	12,100	15,101	2,082	3,597	0	0	0	0
East South Central	23,119	31,975	-27.7%	22,026	30,939	942	864	0	0	151	172
Alabama	5,635	8,615	-34.6%	5,628	8,598	0	0	0	0	NM	17
Kentucky	13,396	16,961	-21.0%	13,396	16,961	0	0	0	0	0	0
Mississippi	1,184	1,427	-17.0%	243	562	942	864	0	0	0	0
Tennessee	2,904	4,972	-41.6%	2,760	4,818	0	0	0	0	143	155
West South Central	25,746	41,925	-38.6%	10,893	22,853	14,794	19,008	0	0	58	64
Arkansas	3,841	7,061	-45.6%	2,927	6,014	901	1,030	0	0	13	17
Louisiana	734	2,414	-69.6%	662	1,494	73	921	0	0	0	0
Oklahoma	526	3,290	-84.0%	392	3,187	89	57	0	0	45	47
Texas	20,645	29,159	-29.2%	6,913	12,158	13,732	17,001	0	0	0	0
Mountain	34,241	47,281	-27.6%	29,943	41,515	4,166	5,640	0	0	133	126
Arizona	3,025	7,863	-61.5%	3,025	7,863	0	0	0	0	0	0
Colorado	6,817	8,475	-19.6%	6,817	8,471	0	0	0	0	0	4
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	3,635	5,015	-27.5%	72	104	3,559	4,908	0	0	NM	NM
Nevada	414	989	-58.1%	81	617	333	373	0	0	0	0
New Mexico	3,761	4,437	-15.2%	3,761	4,437	0	0	0	0	0	0
Utah	6,371	8,210	-22.4%	6,315	8,081	56	129	0	0	0	0
Wyoming	10,212	12,285	-16.9%	9,872	11,942	218	231	0	0	123	112
Pacific Contiguous	1,854	3,158	-41.3%	628	805	1,120	2,244	0	0	105	109
California	94	99	-5.3%	0	0	0	0	0	0	94	99
Oregon	628	805	-21.9%	628	805	0	0	0	0	0	0
Washington	1,131	2,254	-49.8%	0	0	1,120	2,244	0	0	11	9
Pacific Noncontiguous	626	648	-3.4%	148	150	442	465	36	33	0	0
Alaska	245	239	2.8%	148	150	61	55	36	33	0	0
Hawaii	381	410	-7.1%	0	0	381	410	0	0	0	0
U.S. Total	212,403	319,637	-33.5%	158,089	235,372	52,274	81,982	83	115	1,957	2,168

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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, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	8	12	-37.2%	NM	NM	NM	6	2	2	2	1
Connecticut	NM	NM	NM	1	0	NM	NM	NM	NM	0	0
Maine	2	2	4.9%	0	0	1	1	0	0	1	NM
Massachusetts	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
New Hampshire	1	2	-50.2%	NM	1	NM	NM	1	1	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	NM
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	NM	28	NM	NM	NM	NM	22	NM	NM	1	1
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	NM	10	NM	NM	NM	NM	NM	NM	NM	0	0
Pennsylvania	NM	16	NM	0	0	NM	15	NM	0	0	NM
East North Central	13	38	-64.9%	10	20	3	17	NM	NM	0	1
Illinois	-4	4	-201.9%	NM	NM	-4	3	NM	NM	0	0
Indiana	4	7	-40.3%	4	7	0	0	0	0	0	0
Michigan	3	7	-51.0%	3	6	0	0	NM	NM	NM	1
Ohio	9	16	-45.7%	1	2	8	13	0	0	0	0
Wisconsin	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
West North Central	16	20	-20.5%	15	19	NM	NM	NM	0	0	0
Iowa	2	4	-34.6%	2	3	NM	NM	0	0	0	0
Kansas	6	5	31.0%	6	5	0	0	0	0	0	0
Minnesota	NM	3	NM	NM	3	NM	NM	NM	0	0	0
Missouri	2	6	-72.6%	2	6	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	2	1	155.4%	2	1	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	40	80	-49.6%	29	62	5	7	2	3	NM	9
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	14	28	-50.1%	13	27	0	0	0	0	NM	NM
Georgia	NM	11	NM	-4	5	NM	NM	0	0	NM	6
Maryland	1	2	-31.4%	NM	0	1	2	0	0	0	0
North Carolina	6	16	-65.3%	5	15	NM	NM	NM	NM	NM	NM
South Carolina	5	4	24.9%	5	3	0	0	0	0	0	1
Virginia	6	9	-34.5%	NM	4	2	3	2	2	NM	1
West Virginia	9	8	4.1%	9	8	0	0	0	0	0	0
East South Central	6	12	-49.5%	5	11	NM	NM	0	0	NM	1
Alabama	NM	2	NM	0	0	NM	NM	0	0	NM	1
Kentucky	4	1	470.9%	4	1	0	0	0	0	0	0
Mississippi	0	2	-96.6%	0	2	0	0	0	0	0	0
Tennessee	2	8	-76.3%	2	8	0	0	0	0	0	0
West South Central	9	13	-32.3%	6	10	3	2	0	0	0	1
Arkansas	5	4	49.0%	3	3	2	0	0	0	0	0
Louisiana	NM	1	NM	NM	1	0	0	0	0	0	0
Oklahoma	NM	1	NM	NM	1	0	0	0	0	0	0
Texas	3	7	-52.1%	2	5	1	2	0	0	0	0
Mountain	15	18	-18.2%	15	18	NM	1	NM	NM	0	0
Arizona	2	8	-73.2%	2	8	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Nevada	0	1	-82.2%	0	0	0	0	0	0	0	0
New Mexico	2	2	37.6%	2	2	0	0	0	0	0	0
Utah	6	6	-2.8%	6	5	0	0	0	0	0	0
Wyoming	4	1	290.4%	4	1	0	0	0	0	0	0
Pacific Contiguous	3	10	-68.0%	2	3	NM	1	0	0	NM	6
California	2	10	-74.4%	2	3	0	0	NM	0	0	6
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	NM	NM	NM	NM	NM	NM	0	0	0	NM	NM
Pacific Noncontiguous	505	556	-9.3%	366	385	119	148	1	1	19	21
Alaska	71	67	6.6%	68	62	0	0	NM	1	3	3
Hawaii	433	490	-11.5%	299	323	119	148	1	0	15	18
U.S. Total	624	788	-20.9%	451	534	140	204	5	7	27	42

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

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

by State, by Sector, Year-to-Date through April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	45	113	-59.9%	6	11	28	79	8	15	3	7
Connecticut	13	35	-63.4%	2	1	11	28	NM	3	0	2
Maine	9	10	-12.8%	0	0	6	5	0	1	3	4
Massachusetts	13	48	-73.5%	NM	NM	8	39	NM	4	0	1
New Hampshire	7	12	-43.8%	1	4	NM	NM	6	7	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	1	2	NM	NM
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	88	478	-81.5%	14	156	67	306	NM	NM	4	13
New Jersey	19	47	-58.7%	0	1	19	45	0	0	0	1
New York	52	352	-85.3%	14	154	33	184	NM	NM	2	10
Pennsylvania	17	80	-78.2%	0	0	15	77	NM	1	2	2
East North Central	100	163	-38.6%	64	86	34	69	0	1	2	7
Illinois	3	14	-81.2%	2	2	1	12	0	NM	0	0
Indiana	34	42	-19.8%	33	39	0	0	0	0	1	3
Michigan	17	30	-42.3%	17	28	0	0	NM	1	NM	1
Ohio	37	58	-36.5%	4	5	32	51	0	0	1	2
Wisconsin	NM	20	NM	NM	12	1	7	NM	0	0	0
West North Central	80	117	-31.4%	78	111	NM	4	0	1	0	1
Iowa	6	24	-76.5%	5	23	1	1	0	0	0	0
Kansas	30	18	68.6%	30	18	0	0	0	0	0	0
Minnesota	NM	16	NM	NM	11	NM	NM	0	1	0	1
Missouri	16	33	-52.7%	16	33	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	12	17	-29.9%	12	17	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	233	434	-46.3%	167	300	32	90	10	9	23	34
Delaware	NM	21	NM	0	0	NM	21	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	55	75	-26.5%	50	69	0	0	0	0	4	6
Georgia	1	46	-98.0%	-13	22	NM	4	0	0	12	20
Maryland	14	33	-57.6%	0	0	14	31	0	0	0	1
North Carolina	39	94	-59.0%	34	88	1	3	NM	NM	3	3
South Carolina	22	33	-33.5%	20	29	0	1	0	0	1	3
Virginia	38	97	-60.8%	19	58	7	29	10	8	2	1
West Virginia	57	34	65.5%	57	34	0	0	0	0	0	0
East South Central	57	86	-34.0%	54	80	0	1	0	0	3	5
Alabama	2	7	-71.1%	1	4	NM	1	0	0	NM	3
Kentucky	17	23	-27.7%	17	23	0	0	0	0	0	0
Mississippi	2	6	-67.2%	1	5	0	0	0	0	1	1
Tennessee	36	50	-27.6%	35	48	0	0	0	0	1	2
West South Central	32	44	-27.0%	22	30	9	10	0	0	1	3
Arkansas	14	16	-14.1%	11	10	3	5	0	0	0	1
Louisiana	1	2	-50.4%	1	2	0	0	0	0	0	0
Oklahoma	2	7	-68.5%	2	6	0	0	0	0	0	0
Texas	15	19	-20.9%	8	12	6	5	0	0	1	2
Mountain	56	69	-19.9%	54	65	2	4	NM	NM	0	0
Arizona	11	23	-51.8%	11	23	0	0	NM	NM	0	0
Colorado	NM	4	NM	NM	4	0	0	0	0	0	0
Idaho	0	0	76.4%	0	0	0	0	0	0	0	0
Montana	NM	4	NM	NM	NM	1	3	0	0	0	0
Nevada	2	4	-53.8%	1	3	0	1	0	0	0	0
New Mexico	12	11	8.3%	12	11	0	0	0	0	0	0
Utah	13	13	-4.7%	12	13	0	0	0	0	0	0
Wyoming	14	10	46.5%	14	10	0	0	0	0	0	0
Pacific Contiguous	22	27	-19.3%	14	13	4	3	0	0	NM	10
California	14	21	-34.2%	11	12	2	1	0	0	1	8
Oregon	1	1	-9.8%	1	1	0	0	0	0	0	0
Washington	7	5	38.3%	2	NM	2	2	0	0	NM	3
Pacific Noncontiguous	2,297	2,244	2.4%	1,816	1,695	392	460	4	5	85	84
Alaska	336	268	25.3%	315	249	0	0	2	4	19	15
Hawaii	1,962	1,976	-0.7%	1,502	1,445	392	460	2	2	66	69
U.S. Total	3,010	3,776	-20.3%	2,289	2,547	571	1,027	26	37	124	165

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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, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
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	NM	NM	0	0	0	0	0	0	0	NM
New Jersey	0	6	-100.0%	0	0	0	0	0	0	0	6
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	NM	NM	0	0	0	0	0	0	0	NM
East North Central	147	95	54.5%	34	1	107	82	0	0	7	13
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	41	13	219.6%	34	0	0	0	0	0	7	13
Ohio	107	82	30.5%	0	0	107	82	0	0	0	0
Wisconsin	-1	1	-167.8%	-1	1	0	0	0	0	0	0
West North Central	0	1	-100.0%	0	0	0	0	0	1	0	0
Iowa	0	1	-100.0%	0	0	0	0	0	1	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	91	104	-13.4%	77	93	0	0	0	0	14	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	93	-17.8%	77	93	0	0	0	0	0	0
Georgia	14	NM	NM	0	0	0	0	0	0	14	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	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	352	193	82.3%	345	182	0	0	0	0	8	12
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	345	182	89.8%	345	182	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	8	12	-34.5%	0	0	0	0	0	0	8	12
Mountain	36	42	-15.4%	0	0	36	42	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	36	42	-15.4%	0	0	36	42	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	626	446	40.2%	455	276	142	124	0	1	28	46

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

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

by State, by Sector, Year-to-Date through April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 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	17	47	-64.3%	0	0	0	0	0	0	17	47
New Jersey	17	21	-21.9%	0	0	0	0	0	0	17	21
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	25	-100.0%	0	0	0	0	0	0	0	25
East North Central	578	705	-18.0%	234	288	302	378	0	0	43	40
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	249	300	-17.1%	206	260	0	0	0	0	43	40
Ohio	302	378	-20.1%	0	0	302	378	0	0	0	0
Wisconsin	28	27	1.9%	28	27	0	0	0	0	0	0
West North Central	20	4	374.6%	0	0	0	0	2	4	17	0
Iowa	20	4	374.6%	0	0	0	0	2	4	17	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	555	506	9.7%	492	444	0	0	0	0	64	62
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	492	444	10.7%	492	444	0	0	0	0	0	0
Georgia	64	62	2.6%	0	0	0	0	0	0	64	62
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	1,142	1,241	-8.0%	1,110	1,206	0	0	0	0	32	34
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,110	1,212	-8.4%	1,110	1,206	0	0	0	0	0	6
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	32	29	10.5%	0	0	0	0	0	0	32	29
Mountain	161	168	-4.3%	0	0	161	168	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	161	168	-4.3%	0	0	161	168	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	2,473	2,671	-7.4%	1,835	1,938	463	546	2	4	172	183

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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, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	3,260	3,432	-5.0%	NM	NM	3,081	3,243	65	71	111	109
Connecticut	1,731	1,627	6.4%	3	3	1,661	1,555	NM	27	43	42
Maine	110	61	80.1%	0	0	63	NM	2	2	44	36
Massachusetts	655	991	-33.9%	NM	NM	605	929	NM	37	15	20
New Hampshire	239	259	-7.6%	0	0	237	255	1	1	1	3
Rhode Island	525	494	6.3%	0	0	514	482	4	3	NM	NM
Vermont	0	0	-84.9%	0	0	0	0	0	0	0	0
Middle Atlantic	12,014	11,518	4.3%	652	669	11,147	10,600	62	76	153	173
New Jersey	2,045	3,201	-36.1%	NM	NM	2,008	3,151	NM	11	26	27
New York	2,678	3,054	-12.3%	647	656	1,936	2,293	50	55	46	50
Pennsylvania	7,291	5,263	38.5%	0	0	7,203	5,156	7	10	81	96
East North Central	11,551	11,469	0.7%	3,775	3,990	7,349	7,072	97	112	330	295
Illinois	1,279	1,346	-5.0%	181	145	1,042	1,132	29	27	NM	40
Indiana	2,341	2,038	14.8%	1,036	920	1,146	966	8	16	151	137
Michigan	2,480	2,572	-3.6%	575	842	1,801	1,631	46	50	59	50
Ohio	3,803	3,846	-1.1%	471	611	3,299	3,206	8	11	24	17
Wisconsin	1,648	1,667	-1.1%	1,511	1,471	61	137	6	7	70	51
West North Central	1,694	1,991	-14.9%	1,395	1,766	190	144	26	29	82	52
Iowa	391	434	-9.9%	336	390	0	NM	8	9	47	35
Kansas	176	162	9.1%	157	158	0	0	0	0	19	NM
Minnesota	520	735	-29.2%	448	647	55	70	7	8	11	11
Missouri	407	482	-15.7%	256	395	135	74	12	12	3	2
Nebraska	NM	34	NM	NM	34	0	0	0	0	0	0
North Dakota	86	73	17.1%	84	72	0	0	0	0	2	1
South Dakota	NM	70	NM	NM	70	0	0	0	0	0	0
South Atlantic	29,289	26,666	9.8%	23,928	21,425	4,851	4,744	85	101	425	396
Delaware	374	320	17.0%	0	0	276	230	0	0	99	90
District of Columbia	0	3	-100.0%	0	0	0	0	0	3	0	0
Florida	15,021	13,375	12.3%	14,392	12,762	498	484	2	2	129	126
Georgia	3,729	4,153	-10.2%	2,503	3,032	1,167	1,069	0	0	59	53
Maryland	1,099	1,066	3.0%	273	190	746	781	75	88	5	7
North Carolina	2,110	2,626	-19.6%	1,528	2,159	560	448	NM	NM	15	12
South Carolina	1,997	1,588	25.8%	1,958	1,486	NM	91	0	0	13	11
Virginia	4,803	3,435	39.8%	3,273	1,784	1,457	1,587	1	2	72	63
West Virginia	155	100	54.9%	1	13	120	55	0	0	34	33
East South Central	8,626	8,654	-0.3%	6,635	5,620	1,745	2,798	NM	NM	231	221
Alabama	3,014	3,738	-19.4%	1,175	1,203	1,739	2,428	0	0	100	106
Kentucky	954	883	8.0%	929	857	4	10	0	0	21	16
Mississippi	3,821	3,401	12.3%	3,783	3,002	0	359	0	0	37	40
Tennessee	838	632	32.6%	749	558	1	1	NM	NM	73	58
West South Central	25,614	25,121	2.0%	8,934	8,504	11,612	11,080	61	65	5,006	5,472
Arkansas	854	1,282	-33.4%	728	1,138	105	116	NM	NM	18	25
Louisiana	5,450	5,793	-5.9%	3,293	3,219	257	363	15	14	1,885	2,196
Oklahoma	2,794	2,652	5.3%	1,861	1,799	891	831	0	0	41	23
Texas	16,516	15,394	7.3%	3,052	2,348	10,358	9,770	43	48	3,062	3,228
Mountain	8,193	7,747	5.7%	6,528	5,898	1,509	1,708	32	35	123	106
Arizona	3,307	3,278	0.9%	2,660	2,365	636	903	11	11	0	0
Colorado	1,399	1,191	17.5%	1,189	1,037	209	152	0	0	2	2
Idaho	166	160	4.0%	NM	NM	144	134	3	3	11	9
Montana	NM	20	NM	NM	NM	NM	4	0	0	NM	NM
Nevada	1,810	1,610	12.5%	1,619	1,431	171	158	4	6	16	14
New Mexico	949	856	10.8%	599	497	343	351	NM	NM	0	0
Utah	447	568	-21.2%	406	523	6	6	6	7	29	32
Wyoming	92	64	43.6%	27	15	0	0	0	0	65	49
Pacific Contiguous	7,678	6,200	23.8%	2,962	2,441	3,702	2,799	129	140	885	820
California	4,806	4,274	12.4%	1,366	1,349	2,501	1,985	124	135	815	806
Oregon	1,633	1,201	35.9%	755	645	863	546	4	4	NM	6
Washington	1,239	725	70.9%	841	447	338	269	1	2	59	8
Pacific Noncontiguous	218	208	4.9%	212	203	0	0	0	0	6	6
Alaska	218	208	4.9%	212	203	0	0	0	0	6	6
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	108,138	103,006	5.0%	55,024	50,523	45,187	44,189	573	644	7,354	7,650

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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 April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	15,004	14,679	2.2%	NM	NM	14,123	13,861	349	341	514	453
Connecticut	7,360	6,263	17.5%	10	12	6,999	5,935	129	128	222	188
Maine	380	479	-20.7%	0	0	215	350	10	10	154	120
Massachusetts	4,062	5,259	-22.8%	NM	NM	3,778	4,973	194	186	82	88
New Hampshire	910	731	24.5%	0	0	898	717	3	4	9	10
Rhode Island	2,293	1,946	17.8%	0	0	2,233	1,887	13	11	47	48
Vermont	1	1	-37.2%	0	0	0	0	0	1	0	0
Middle Atlantic	60,150	53,371	12.7%	2,855	2,829	56,135	49,345	341	359	819	839
New Jersey	9,132	11,987	-23.8%	NM	NM	8,924	11,785	37	39	141	129
New York	14,621	13,725	6.5%	2,825	2,794	11,316	10,447	265	272	215	212
Pennsylvania	36,397	27,659	31.6%	0	1	35,895	27,113	39	48	463	497
East North Central	54,242	47,603	13.9%	18,521	15,575	33,883	30,271	470	464	1,367	1,293
Illinois	6,188	4,831	28.1%	1,026	243	4,845	4,289	125	114	193	186
Indiana	10,633	9,729	9.3%	4,299	3,935	5,690	5,159	54	54	590	581
Michigan	12,037	10,105	19.1%	3,844	2,919	7,760	6,752	209	211	224	223
Ohio	17,705	16,579	6.8%	2,343	2,682	15,218	13,751	58	63	85	83
Wisconsin	7,678	6,359	20.8%	7,009	5,796	370	321	24	22	275	220
West North Central	9,119	8,123	12.3%	7,406	6,897	1,269	838	106	108	337	279
Iowa	2,086	2,080	0.2%	1,866	1,866	0	NM	32	32	188	181
Kansas	863	616	40.1%	782	581	0	0	0	0	82	35
Minnesota	2,912	2,864	1.7%	2,482	2,545	352	232	32	39	47	48
Missouri	2,118	1,867	13.4%	1,145	1,214	917	604	41	36	15	12
Nebraska	273	146	86.5%	272	146	0	0	1	1	0	0
North Dakota	435	302	43.8%	429	299	0	0	0	0	6	3
South Dakota	433	246	75.7%	433	246	0	0	0	0	0	0
South Atlantic	123,744	111,222	11.3%	102,513	92,284	19,082	16,961	366	384	1,783	1,594
Delaware	1,202	1,213	-0.9%	0	0	817	868	0	0	385	345
District of Columbia	13	12	10.9%	0	0	0	0	13	12	0	0
Florida	57,286	50,633	13.1%	54,496	48,599	2,242	1,518	8	7	540	509
Georgia	17,206	16,047	7.2%	12,991	12,361	3,969	3,485	0	0	246	201
Maryland	4,699	4,998	-6.0%	1,180	1,576	3,204	3,064	300	328	15	30
North Carolina	13,661	13,157	3.8%	10,975	10,614	2,587	2,460	37	31	61	53
South Carolina	7,901	6,511	21.4%	7,703	6,222	136	247	0	0	62	43
Virginia	21,260	18,326	16.0%	15,164	12,859	5,806	5,212	8	6	282	249
West Virginia	514	325	58.5%	4	52	320	108	0	0	190	165
East South Central	40,989	38,930	5.3%	29,293	25,758	10,666	12,179	76	70	954	924
Alabama	15,688	16,185	-3.1%	5,221	5,517	10,029	10,235	0	0	439	433
Kentucky	3,777	4,270	-11.5%	3,666	4,075	27	117	0	0	84	78
Mississippi	16,542	13,773	20.1%	15,781	11,794	604	1,821	0	0	157	158
Tennessee	4,981	4,701	6.0%	4,625	4,372	6	6	76	70	274	254
West South Central	114,245	104,920	8.9%	39,993	34,130	50,913	48,095	281	306	23,058	22,389
Arkansas	4,891	5,441	-10.1%	4,357	4,861	443	454	NM	NM	79	114
Louisiana	22,823	20,916	9.1%	13,386	10,666	909	1,223	62	55	8,466	8,972
Oklahoma	14,029	11,676	20.1%	8,797	7,426	5,073	4,126	0	0	159	124
Texas	72,503	66,887	8.4%	13,453	11,177	44,489	42,293	207	238	14,354	13,179
Mountain	35,499	31,720	11.9%	28,207	25,060	6,618	6,020	138	143	536	496
Arizona	12,932	11,655	11.0%	9,710	8,911	3,179	2,698	43	46	0	0
Colorado	6,079	5,151	18.0%	5,221	4,354	846	790	5	1	9	7
Idaho	1,372	819	67.6%	651	463	659	301	14	13	49	42
Montana	118	168	-29.7%	99	96	17	70	0	0	2	2
Nevada	7,944	7,091	12.0%	7,163	6,313	676	665	19	22	86	91
New Mexico	3,897	3,462	12.6%	2,639	1,958	1,218	1,470	30	33	10	0
Utah	2,720	3,069	-11.4%	2,559	2,874	24	24	28	30	110	140
Wyoming	437	306	42.6%	165	92	1	1	0	0	271	214
Pacific Contiguous	36,674	34,793	5.4%	15,342	13,524	17,371	17,278	533	560	3,428	3,431
California	24,279	24,669	-1.6%	8,016	8,328	12,456	12,430	513	538	3,294	3,374
Oregon	7,545	6,760	11.6%	3,830	3,143	3,657	3,575	16	14	42	28
Washington	4,850	3,364	44.2%	3,496	2,054	1,258	1,273	4	7	92	30
Pacific Noncontiguous	1,045	901	16.0%	1,025	876	0	0	0	0	20	24
Alaska	1,045	901	16.0%	1,025	876	0	0	0	0	20	24
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	490,711	446,263	10.0%	245,173	216,958	210,060	194,848	2,659	2,735	32,818	31,722

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

Table 1.7.C. Utility Scale Facility Net Generation from Natural Gas by Technology: Total (All Sectors), 2010-April 2020 (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						
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	1,094,952	111,732	84,520	4,370	869	1,296,442
2018	1,231,946	132,866	98,017	5,203	1,101	1,469,133
2019	1,330,364	135,654	109,602	6,043	152	1,581,815
Year 2018						
January	93,426	10,362	6,045	382	77	110,293
February	86,046	8,021	4,015	352	77	98,512
March	90,850	9,834	5,356	395	88	106,524
April	82,423	9,766	5,761	348	73	98,371
May	94,192	10,839	9,763	421	68	115,284
June	108,641	11,513	10,170	424	79	130,826
July	133,649	15,618	14,735	630	116	164,749
August	133,733	14,426	12,809	587	122	161,676
Sept	118,249	12,775	10,195	465	102	141,786
October	102,793	11,156	8,654	428	111	123,142
November	91,899	9,822	5,963	389	94	108,168
December	96,044	8,733	4,551	381	92	109,802
Year 2019						
January	105,687	7,722	5,542	346	10	119,307
February	97,877	7,398	5,327	394	9	111,005
March	98,275	7,716	6,558	387	10	112,945
April	86,329	9,029	7,278	358	12	103,006
May	96,563	10,004	9,267	389	13	116,236
June	115,478	10,748	10,300	455	13	136,994
July	139,491	18,801	15,231	802	16	174,341
August	141,757	18,269	15,578	835	19	176,458
Sept	123,665	13,981	12,455	636	16	150,753
October	109,426	13,292	10,391	543	15	133,667
November	101,265	10,088	5,910	489	9	117,762
December	114,550	8,609	5,764	410	9	129,342
Year 2020						
January	117,472	8,641	6,449	409	9	132,980
February	110,696	8,581	6,335	404	8	126,024
March	106,077	9,495	7,481	507	10	123,569
April	93,433	7,623	6,670	401	10	108,138

Values for 2018 and prior years are final. Values for 2019 and 2020 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, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
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	50	59	-15.6%	0	0	0	0	0	0	50	59
New Jersey	16	17	-2.7%	0	0	0	0	0	0	16	17
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	42	NM	0	0	0	0	0	0	NM	42
East North Central	236	369	-36.1%	6	0	37	166	0	0	194	204
Illinois	36	16	120.1%	0	0	0	0	0	0	36	16
Indiana	146	171	-14.5%	0	0	0	0	0	0	146	171
Michigan	6	120	-95.3%	6	0	0	120	0	0	0	0
Ohio	49	63	-21.8%	0	0	37	46	0	0	12	17
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	3	4	-31.4%	0	0	0	0	0	0	3	4
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	3	4	-31.4%	0	0	0	0	0	0	3	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	9	13	-25.1%	0	0	0	0	0	0	9	13
Delaware	7	9	-23.3%	0	0	0	0	0	0	7	9
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-43.6%	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	3	4	-29.3%	0	0	0	0	0	0	3	4
East South Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Alabama	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	-21.1%	0	0	0	0	0	0	1	1
West South Central	312	461	-32.3%	0	0	105	155	0	0	207	305
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	139	213	-34.7%	0	0	0	0	0	0	139	213
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	173	247	-30.1%	0	0	105	155	0	0	68	92
Mountain	34	23	46.0%	0	0	1	0	0	0	33	23
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	0	--	0	0	1	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	1	-96.2%	0	0	0	0	0	0	0	1
Wyoming	33	23	45.8%	0	0	0	0	0	0	33	23
Pacific Contiguous	156	140	11.2%	0	0	0	17	0	0	156	123
California	134	123	8.8%	0	0	0	0	0	0	134	123
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	22	17	28.3%	0	0	0	17	0	0	22	0
Pacific Noncontiguous	0	0	-100.0%	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	-100.0%	0	0	0	0	0	0	0	0
U.S. Total	801	1,071	-25.2%	6	0	143	339	0	0	653	733

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 April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 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	290	262	10.7%	0	0	26	0	0	0	264	262
New Jersey	75	74	1.0%	0	0	0	0	0	0	75	74
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	216	189	14.5%	0	0	26	0	0	0	190	189
East North Central	1,553	1,743	-11.0%	33	65	561	721	0	0	959	957
Illinois	111	100	11.3%	0	0	0	0	0	0	111	100
Indiana	802	795	0.9%	0	0	0	0	0	0	802	795
Michigan	387	577	-33.0%	33	65	354	512	0	0	0	0
Ohio	253	272	-7.0%	0	0	207	209	0	0	46	63
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	14	16	-13.4%	0	0	0	0	0	0	14	16
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	14	16	-13.4%	0	0	0	0	0	0	14	16
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	63	63	-0.5%	0	0	0	0	0	0	63	63
Delaware	48	50	-5.8%	0	0	0	0	0	0	48	50
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-32.2%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	16	13	19.9%	0	0	0	0	0	0	16	13
East South Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Alabama	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	4	3	8.4%	0	0	0	0	0	0	4	3
West South Central	1,678	1,836	-8.6%	0	0	534	622	0	0	1,144	1,214
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	791	868	-8.8%	0	0	0	0	0	0	791	868
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	887	969	-8.5%	0	0	534	622	0	0	353	347
Mountain	138	106	29.8%	0	0	5	2	0	0	133	104
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	2	108.7%	0	0	5	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	0	4	-99.1%	0	0	0	0	0	0	0	4
Wyoming	133	100	33.5%	0	0	0	0	0	0	133	100
Pacific Contiguous	611	511	19.5%	0	0	87	66	0	0	524	445
California	502	445	12.8%	0	0	0	0	0	0	502	445
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	109	66	64.9%	0	0	87	66	0	0	22	0
Pacific Noncontiguous	3	2	26.0%	0	0	0	0	0	0	3	2
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	3	2	26.0%	0	0	0	0	0	0	3	2
U.S. Total	4,355	4,547	-4.2%	33	65	1,213	1,412	0	0	3,109	3,070

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	1,041	2,132	-51.2%	0	0	1,041	2,132	0	0	0	0
Connecticut	985	756	30.3%	0	0	985	756	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	477	-100.0%	0	0	0	477	0	0	0	0
New Hampshire	56	899	-93.7%	0	0	56	899	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	10,177	11,106	-8.4%	0	0	10,177	11,106	0	0	0	0
New Jersey	1,973	1,840	7.2%	0	0	1,973	1,840	0	0	0	0
New York	3,198	3,103	3.1%	0	0	3,198	3,103	0	0	0	0
Pennsylvania	5,007	6,162	-18.8%	0	0	5,007	6,162	0	0	0	0
East North Central	12,306	12,045	2.2%	1,573	1,695	10,733	10,350	0	0	0	0
Illinois	7,809	7,864	-0.7%	0	0	7,809	7,864	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,158	2,283	-5.5%	1,573	1,695	585	587	0	0	0	0
Ohio	1,562	1,328	17.6%	0	0	1,562	1,328	0	0	0	0
Wisconsin	777	570	36.3%	0	0	777	570	0	0	0	0
West North Central	3,904	2,723	43.4%	3,484	2,346	420	376	0	0	0	0
Iowa	420	376	11.6%	0	0	420	376	0	0	0	0
Kansas	882	882	0.1%	882	882	0	0	0	0	0	0
Minnesota	1,248	900	38.7%	1,248	900	0	0	0	0	0	0
Missouri	777	-7	NM	777	-7	0	0	0	0	0	0
Nebraska	576	572	0.7%	576	572	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	15,779	16,003	-1.4%	14,480	14,700	1,299	1,303	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	2,138	2,294	-6.8%	2,138	2,294	0	0	0	0	0	0
Georgia	2,720	2,903	-6.3%	2,720	2,903	0	0	0	0	0	0
Maryland	1,299	1,303	-0.3%	0	0	1,299	1,303	0	0	0	0
North Carolina	3,353	2,262	48.3%	3,353	2,262	0	0	0	0	0	0
South Carolina	3,893	4,844	-19.6%	3,893	4,844	0	0	0	0	0	0
Virginia	2,377	2,398	-0.9%	2,377	2,398	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,508	6,712	-3.0%	6,508	6,712	0	0	0	0	0	0
Alabama	3,772	3,037	24.2%	3,772	3,037	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	-7	944	-100.7%	-7	944	0	0	0	0	0	0
Tennessee	2,743	2,731	0.5%	2,743	2,731	0	0	0	0	0	0
West South Central	4,989	5,429	-8.1%	2,316	2,178	2,673	3,251	0	0	0	0
Arkansas	791	1,333	-40.6%	791	1,333	0	0	0	0	0	0
Louisiana	1,525	845	80.4%	1,525	845	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2,673	3,251	-17.8%	0	0	2,673	3,251	0	0	0	0
Mountain	1,999	2,063	-3.1%	1,999	2,063	0	0	0	0	0	0
Arizona	1,999	2,063	-3.1%	1,999	2,063	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	2,466	2,368	4.1%	2,466	2,368	0	0	0	0	0	0
California	1,631	1,552	5.1%	1,631	1,552	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	835	816	2.3%	835	816	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	59,170	60,581	-2.3%	32,827	32,063	26,343	28,518	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 April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	8,366	10,736	-22.1%	0	0	8,366	10,736	0	0	0	0
Connecticut	5,596	5,269	6.2%	0	0	5,596	5,269	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	1,875	-100.0%	0	0	0	1,875	0	0	0	0
New Hampshire	2,770	3,592	-22.9%	0	0	2,770	3,592	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	47,222	50,579	-6.6%	0	0	47,222	50,579	0	0	0	0
New Jersey	8,882	9,200	-3.5%	0	0	8,882	9,200	0	0	0	0
New York	13,889	13,542	2.6%	0	0	13,889	13,542	0	0	0	0
Pennsylvania	24,451	27,836	-12.2%	0	0	24,451	27,836	0	0	0	0
East North Central	52,132	50,861	2.5%	8,679	8,338	43,453	42,523	0	0	0	0
Illinois	32,395	32,486	-0.3%	0	0	32,395	32,486	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	11,045	10,573	4.5%	8,679	8,338	2,367	2,235	0	0	0	0
Ohio	5,558	4,786	16.1%	0	0	5,558	4,786	0	0	0	0
Wisconsin	3,133	3,016	3.9%	0	0	3,133	3,016	0	0	0	0
West North Central	16,123	14,707	9.6%	14,369	13,017	1,754	1,689	0	0	0	0
Iowa	1,754	1,689	3.8%	0	0	1,754	1,689	0	0	0	0
Kansas	3,497	3,529	-0.9%	3,497	3,529	0	0	0	0	0	0
Minnesota	5,106	4,556	12.1%	5,106	4,556	0	0	0	0	0	0
Missouri	3,445	2,631	31.0%	3,445	2,631	0	0	0	0	0	0
Nebraska	2,320	2,301	0.8%	2,320	2,301	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	66,710	66,149	0.8%	62,064	61,556	4,646	4,593	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	9,426	9,924	-5.0%	9,426	9,924	0	0	0	0	0	0
Georgia	9,972	10,063	-0.9%	9,972	10,063	0	0	0	0	0	0
Maryland	4,646	4,593	1.1%	0	0	4,646	4,593	0	0	0	0
North Carolina	13,757	12,542	9.7%	13,757	12,542	0	0	0	0	0	0
South Carolina	18,497	19,389	-4.6%	18,497	19,389	0	0	0	0	0	0
Virginia	10,411	9,639	8.0%	10,411	9,639	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	28,999	29,937	-3.1%	28,999	29,937	0	0	0	0	0	0
Alabama	14,523	13,412	8.3%	14,523	13,412	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	1,771	3,828	-53.7%	1,771	3,828	0	0	0	0	0	0
Tennessee	12,705	12,697	0.1%	12,705	12,697	0	0	0	0	0	0
West South Central	23,754	21,753	9.2%	10,635	8,123	13,119	13,631	0	0	0	0
Arkansas	4,418	5,331	-17.1%	4,418	5,331	0	0	0	0	0	0
Louisiana	6,217	2,792	122.7%	6,217	2,792	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	13,119	13,631	-3.8%	0	0	13,119	13,631	0	0	0	0
Mountain	10,263	10,695	-4.0%	10,263	10,695	0	0	0	0	0	0
Arizona	10,263	10,695	-4.0%	10,263	10,695	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	9,752	8,660	12.6%	9,752	8,660	0	0	0	0	0	0
California	6,477	5,353	21.0%	6,477	5,353	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3,275	3,307	-1.0%	3,275	3,307	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	263,322	264,076	-0.3%	144,761	140,325	118,561	123,751	0	0	0	0

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

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	703	631	11.5%	105	94	587	527	1	1	10	9
Connecticut	50	47	7.4%	5	6	46	41	0	0	0	0
Maine	300	268	12.1%	NM	0	289	258	0	0	10	9
Massachusetts	104	93	11.7%	25	23	78	69	1	1	0	0
New Hampshire	129	117	10.5%	35	30	95	87	0	0	0	0
Rhode Island	1	0	20.4%	0	0	1	0	0	0	0	0
Vermont	120	106	12.6%	41	35	79	71	0	0	0	0
Middle Atlantic	2,989	2,634	13.5%	2,187	1,920	793	708	1	1	8	6
New Jersey	3	4	-5.7%	0	0	3	4	0	0	0	0
New York	2,592	2,281	13.6%	2,172	1,907	412	368	1	1	8	6
Pennsylvania	393	349	12.6%	15	12	378	337	0	0	0	0
East North Central	286	340	-15.8%	252	303	24	NM	0	0	10	NM
Illinois	13	11	18.0%	5	4	8	7	0	0	0	0
Indiana	21	20	10.1%	21	20	0	0	0	0	0	0
Michigan	88	112	-21.5%	81	NM	NM	NM	0	0	NM	NM
Ohio	24	24	-0.7%	22	22	NM	NM	0	0	0	0
Wisconsin	139	172	-19.3%	122	154	NM	NM	0	0	9	NM
West North Central	855	1,049	-18.5%	830	1,020	17	NM	0	0	8	8
Iowa	49	NM	NM	48	NM	1	1	0	0	0	0
Kansas	3	3	-15.3%	0	0	3	3	0	0	0	0
Minnesota	62	NM	NM	40	NM	NM	NM	0	0	8	8
Missouri	88	84	5.2%	88	84	0	0	0	0	0	0
Nebraska	80	NM	NM	80	NM	0	0	0	0	0	0
North Dakota	185	232	-20.5%	185	232	0	0	0	0	0	0
South Dakota	389	492	-21.0%	389	492	0	0	0	0	0	0
South Atlantic	1,884	1,750	7.7%	1,488	1,354	330	337	2	2	65	57
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	19	19	0.6%	19	19	0	0	0	0	0	0
Georgia	358	322	11.1%	353	319	NM	NM	0	0	NM	1
Maryland	265	277	-4.4%	0	0	265	277	0	0	0	0
North Carolina	617	562	9.8%	610	555	NM	5	1	2	NM	NM
South Carolina	297	270	10.0%	291	264	NM	6	0	0	0	0
Virginia	160	150	6.2%	155	145	NM	6	0	0	0	0
West Virginia	168	149	12.5%	60	53	46	41	0	0	62	55
East South Central	2,476	2,174	13.9%	2,475	2,173	NM	NM	0	0	0	0
Alabama	1,170	980	19.3%	1,170	980	0	0	0	0	0	0
Kentucky	357	347	2.8%	356	346	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	949	847	12.1%	949	847	0	0	0	0	0	0
West South Central	716	649	10.4%	603	548	113	101	NM	NM	0	0
Arkansas	302	272	11.1%	297	268	NM	NM	0	0	0	0
Louisiana	105	93	13.0%	0	0	105	93	0	0	0	0
Oklahoma	195	177	10.4%	195	177	0	0	0	0	0	0
Texas	114	107	6.7%	111	103	3	4	NM	NM	0	0
Mountain	2,214	2,705	-18.2%	2,135	2,607	78	97	1	1	0	0
Arizona	511	465	9.9%	511	465	0	0	0	0	0	0
Colorado	106	157	-32.6%	92	139	NM	NM	1	1	0	0
Idaho	631	805	-21.6%	581	741	50	NM	0	0	0	0
Montana	648	825	-21.4%	641	815	NM	NM	0	0	0	0
Nevada	192	290	-33.8%	186	286	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	56	NM	NM	55	NM	1	2	0	0	0	0
Wyoming	59	NM	NM	58	NM	1	0	0	0	0	0
Pacific Contiguous	8,542	13,417	-36.3%	8,390	13,103	150	311	NM	NM	0	0
California	1,984	4,817	-58.8%	1,871	4,552	112	262	NM	NM	0	0
Oregon	1,839	2,900	-36.6%	1,824	2,881	NM	NM	0	0	0	0
Washington	4,718	5,700	-17.2%	4,695	5,670	24	NM	0	0	0	0
Pacific Noncontiguous	106	136	-21.9%	90	116	3	3	NM	NM	NM	NM
Alaska	99	128	-22.5%	89	114	0	0	NM	NM	0	0
Hawaii	7	NM	NM	1	1	3	3	0	0	NM	NM
U.S. Total	20,771	25,483	-18.5%	18,554	23,235	2,096	2,134	16	NM	104	94

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

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

by State, by Sector, Year-to-Date through April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	2,842	2,736	3.9%	414	402	2,384	2,292	2	2	42	40
Connecticut	200	197	1.3%	15	19	184	177	0	0	0	0
Maine	1,204	1,148	4.9%	NM	0	1,162	1,107	0	0	42	40
Massachusetts	419	403	3.9%	103	102	314	299	2	2	0	0
New Hampshire	537	526	2.0%	135	126	402	400	0	0	0	0
Rhode Island	2	2	17.4%	0	0	2	2	0	0	0	0
Vermont	481	461	4.4%	161	155	320	306	0	0	0	0
Middle Atlantic	12,010	11,222	7.0%	8,782	8,136	3,198	3,059	4	3	26	24
New Jersey	8	14	-41.2%	0	0	8	14	0	0	0	0
New York	10,429	9,704	7.5%	8,732	8,083	1,667	1,595	4	3	26	24
Pennsylvania	1,573	1,503	4.7%	50	54	1,523	1,449	0	0	0	0
East North Central	1,407	1,381	1.9%	1,249	1,222	116	116	0	1	42	41
Illinois	51	44	14.5%	19	16	32	28	0	1	0	0
Indiana	90	89	1.4%	90	89	0	0	0	0	0	0
Michigan	452	447	1.0%	419	410	30	NM	0	0	NM	NM
Ohio	111	113	-1.7%	96	96	NM	NM	0	0	0	0
Wisconsin	704	688	2.4%	626	612	40	NM	0	0	39	38
West North Central	4,378	4,273	2.4%	4,262	4,165	85	80	0	0	30	29
Iowa	275	258	6.7%	272	255	3	3	0	0	0	0
Kansas	12	10	30.3%	0	0	12	10	0	0	0	0
Minnesota	313	302	3.8%	213	205	70	68	0	0	30	29
Missouri	373	389	-4.0%	373	389	0	0	0	0	0	0
Nebraska	409	402	1.8%	409	402	0	0	0	0	0	0
North Dakota	1,012	967	4.6%	1,012	967	0	0	0	0	0	0
South Dakota	1,983	1,947	1.9%	1,983	1,947	0	0	0	0	0	0
South Atlantic	7,797	7,709	1.1%	6,271	6,097	1,265	1,367	6	8	256	238
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	79	83	-4.1%	79	83	0	0	0	0	0	0
Georgia	1,581	1,508	4.9%	1,567	1,497	NM	NM	0	0	6	3
Maryland	999	1,102	-9.3%	0	0	999	1,102	0	0	0	0
North Carolina	2,571	2,484	3.5%	2,543	2,452	20	23	5	6	NM	NM
South Carolina	1,247	1,231	1.3%	1,215	1,199	30	30	1	1	0	0
Virginia	645	662	-2.6%	626	638	19	23	0	0	0	0
West Virginia	675	640	5.4%	240	228	188	180	0	0	247	232
East South Central	9,957	9,527	4.5%	9,953	9,524	NM	NM	0	0	0	0
Alabama	4,763	4,538	5.0%	4,763	4,538	0	0	0	0	0	0
Kentucky	1,364	1,332	2.4%	1,360	1,328	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	3,830	3,658	4.7%	3,830	3,658	0	0	0	0	0	0
West South Central	2,967	2,921	1.6%	2,517	2,495	449	426	NM	NM	0	0
Arkansas	1,243	1,223	1.6%	1,224	1,208	19	15	0	0	0	0
Louisiana	419	395	6.2%	0	0	419	395	0	0	0	0
Oklahoma	812	797	1.9%	812	797	0	0	0	0	0	0
Texas	492	506	-2.7%	481	489	10	16	NM	NM	0	0
Mountain	10,187	10,286	-1.0%	9,815	9,917	370	367	2	2	0	0
Arizona	2,022	1,865	8.5%	2,022	1,865	0	0	0	0	0	0
Colorado	510	550	-7.3%	447	486	61	62	2	2	0	0
Idaho	3,201	3,157	1.4%	2,957	2,912	244	245	0	0	0	0
Montana	3,318	3,259	1.8%	3,279	3,221	39	NM	0	0	0	0
Nevada	546	853	-36.0%	526	838	20	NM	0	0	0	0
New Mexico	41	47	-11.4%	41	47	0	0	0	0	0	0
Utah	271	273	-0.7%	266	267	5	6	0	0	0	0
Wyoming	278	283	-1.7%	278	283	1	0	0	0	0	0
Pacific Contiguous	40,348	46,503	-13.2%	39,825	45,592	520	902	NM	NM	0	0
California	6,014	13,087	-54.0%	5,682	12,367	329	712	NM	NM	0	0
Oregon	10,967	11,230	-2.3%	10,897	11,159	70	71	0	0	0	0
Washington	23,367	22,185	5.3%	23,246	22,066	121	119	0	0	0	0
Pacific Noncontiguous	511	507	0.8%	434	436	14	6	53	NM	10	NM
Alaska	483	486	-0.6%	430	433	0	0	53	NM	0	0
Hawaii	28	22	32.0%	4	3	14	6	0	0	10	NM
U.S. Total	92,403	97,065	-4.8%	83,523	87,987	8,404	8,618	71	77	406	384

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	993	1,011	-1.8%	46	61	843	844	12	15	92	91
Connecticut	81	79	2.0%	0	0	80	78	NM	NM	NM	NM
Maine	407	449	-9.2%	0	0	314	355	2	3	91	90
Massachusetts	246	219	12.4%	17	15	223	197	6	6	NM	NM
New Hampshire	127	139	-8.1%	0	12	125	123	3	4	0	0
Rhode Island	53	43	24.4%	0	0	52	42	1	1	0	0
Vermont	78	82	-5.1%	28	34	50	48	0	0	0	0
Middle Atlantic	1,462	1,453	0.6%	8	7	1,349	1,334	56	56	49	56
New Jersey	201	180	11.7%	8	7	165	148	27	24	NM	NM
New York	697	708	-1.5%	0	0	667	674	18	19	13	15
Pennsylvania	564	565	-0.3%	0	0	517	512	11	12	36	41
East North Central	3,634	3,734	-2.7%	404	434	3,087	3,154	15	14	127	132
Illinois	1,636	1,570	4.2%	10	10	1,625	1,560	NM	NM	0	0
Indiana	681	761	-10.5%	43	35	631	720	2	2	5	5
Michigan	765	824	-7.1%	244	269	470	497	4	3	48	54
Ohio	277	280	-1.1%	NM	NM	245	252	2	2	28	25
Wisconsin	274	299	-8.3%	105	118	116	126	7	6	46	48
West North Central	8,957	8,567	4.6%	3,019	3,020	5,874	5,489	10	12	54	46
Iowa	2,863	2,886	-0.8%	2,068	2,051	789	827	3	3	4	5
Kansas	2,069	2,000	3.5%	166	185	1,902	1,814	NM	NM	0	0
Minnesota	1,362	1,307	4.2%	242	251	1,066	1,011	4	4	50	41
Missouri	296	325	-8.9%	NM	NM	293	320	0	2	0	0
Nebraska	736	722	1.9%	34	37	700	684	1	1	0	0
North Dakota	1,171	1,037	12.9%	430	410	740	626	NM	NM	0	NM
South Dakota	460	291	58.0%	76	83	384	208	0	0	0	0
South Atlantic	3,901	3,247	20.2%	778	576	2,222	1,793	37	37	864	840
Delaware	11	9	14.5%	NM	NM	9	8	1	1	NM	NM
District of Columbia	7	6	14.1%	0	0	NM	NM	5	5	0	0
Florida	923	748	23.4%	540	383	213	198	4	4	166	163
Georgia	777	588	32.0%	31	29	418	242	NM	NM	328	317
Maryland	138	140	-1.8%	NM	NM	134	126	3	3	0	11
North Carolina	1,116	944	18.3%	58	37	938	792	11	11	109	103
South Carolina	335	259	29.4%	28	36	166	90	0	0	141	133
Virginia	406	364	11.6%	120	90	154	148	13	13	119	112
West Virginia	189	189	0.4%	0	0	189	189	0	0	0	0
East South Central	630	616	2.2%	14	13	129	125	NM	NM	486	477
Alabama	326	306	6.4%	3	3	39	50	0	0	284	253
Kentucky	41	39	4.0%	11	10	NM	1	0	0	29	28
Mississippi	160	148	8.2%	0	0	46	32	0	0	115	116
Tennessee	103	123	-16.1%	NM	NM	44	42	NM	NM	59	81
West South Central	11,591	11,479	1.0%	159	170	11,093	10,933	8	7	331	369
Arkansas	95	140	-32.3%	NM	NM	23	24	2	0	70	116
Louisiana	170	173	-1.6%	NM	NM	6	6	0	0	164	167
Oklahoma	2,695	2,782	-3.1%	133	142	2,535	2,623	0	0	28	17
Texas	8,630	8,385	2.9%	26	28	8,529	8,280	5	7	70	70
Mountain	4,692	4,593	2.2%	564	585	4,039	3,939	53	36	35	33
Arizona	619	573	7.9%	66	65	551	507	NM	NM	0	0
Colorado	1,064	1,160	-8.3%	189	223	872	935	3	NM	0	0
Idaho	358	380	-5.7%	16	18	308	331	1	0	33	30
Montana	254	240	6.0%	23	24	230	215	0	0	2	2
Nevada	861	762	13.0%	19	4	795	726	47	33	0	0
New Mexico	816	725	12.6%	35	28	781	697	NM	NM	0	0
Utah	303	308	-1.6%	NM	17	283	291	1	0	0	0
Wyoming	417	445	-6.3%	198	207	219	239	0	0	0	0
Pacific Contiguous	7,417	7,441	-0.3%	765	780	6,377	6,398	76	67	198	196
California	5,507	5,519	-0.2%	183	167	5,196	5,231	73	64	55	57
Oregon	996	925	7.7%	139	122	805	753	2	2	51	49
Washington	914	997	-8.4%	444	491	376	415	NM	NM	93	90
Pacific Noncontiguous	148	135	9.9%	20	19	113	97	16	19	0	NM
Alaska	18	20	-7.6%	10	11	5	6	3	3	0	NM
Hawaii	130	115	12.9%	10	8	108	91	12	16	0	0
U.S. Total	43,424	42,276	2.7%	5,778	5,665	35,126	34,107	282	264	2,238	2,241

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

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

by State, by Sector, Year-to-Date through April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	3,922	3,923	0.0%	229	273	3,262	3,217	51	62	381	371
Connecticut	322	298	7.9%	1	1	318	295	NM	NM	NM	NM
Maine	1,654	1,746	-5.2%	0	0	1,264	1,360	12	17	378	369
Massachusetts	840	768	9.3%	59	48	757	695	21	22	3	NM
New Hampshire	570	613	-7.0%	14	75	544	521	12	16	0	0
Rhode Island	197	169	16.9%	0	0	195	166	3	3	0	0
Vermont	339	329	3.0%	155	149	184	180	1	1	0	0
Middle Atlantic	5,621	5,175	8.6%	22	22	5,168	4,725	209	201	221	227
New Jersey	671	614	9.3%	22	22	553	505	93	86	2	NM
New York	2,690	2,536	6.1%	0	0	2,563	2,407	68	66	60	63
Pennsylvania	2,259	2,025	11.6%	0	0	2,052	1,814	48	49	159	161
East North Central	14,286	13,313	7.3%	1,631	1,436	12,084	11,268	58	70	512	540
Illinois	6,210	5,470	13.5%	40	38	6,168	5,430	NM	NM	0	0
Indiana	2,698	2,673	0.9%	155	131	2,515	2,515	8	7	20	21
Michigan	3,133	3,014	3.9%	984	852	1,943	1,905	15	27	190	231
Ohio	1,122	1,100	2.0%	7	NM	995	991	6	6	114	98
Wisconsin	1,122	1,055	6.3%	445	410	463	428	27	27	187	191
West North Central	34,907	30,085	16.0%	11,635	10,292	22,976	19,497	53	66	243	230
Iowa	11,073	9,595	15.4%	7,850	6,752	3,193	2,810	14	16	16	17
Kansas	7,921	7,086	11.8%	632	645	7,284	6,436	NM	NM	0	0
Minnesota	5,280	4,757	11.0%	979	949	4,060	3,574	16	23	225	212
Missouri	1,150	1,122	2.6%	10	9	1,128	1,095	11	17	1	1
Nebraska	3,018	2,585	16.8%	137	132	2,876	2,448	5	5	0	0
North Dakota	4,674	3,868	20.8%	1,715	1,493	2,956	2,372	NM	NM	NM	NM
South Dakota	1,791	1,072	67.0%	311	312	1,480	761	0	0	0	0
South Atlantic	13,743	11,688	17.6%	2,689	2,054	7,471	6,138	135	131	3,448	3,365
Delaware	37	34	8.7%	NM	2	30	26	2	2	4	4
District of Columbia	26	22	16.6%	0	0	5	4	21	18	0	0
Florida	3,316	2,755	20.4%	1,833	1,301	827	815	18	17	639	622
Georgia	2,839	2,159	31.5%	93	90	1,411	775	NM	NM	1,334	1,293
Maryland	474	477	-0.8%	2	2	458	422	13	13	0	40
North Carolina	3,551	3,095	14.7%	168	113	2,919	2,553	34	33	431	395
South Carolina	1,193	1,017	17.3%	118	147	528	330	0	0	546	540
Virginia	1,580	1,479	6.9%	473	398	566	563	47	47	495	471
West Virginia	728	650	11.9%	0	0	728	650	0	0	0	0
East South Central	2,448	2,316	5.7%	49	48	386	383	NM	NM	2,011	1,884
Alabama	1,270	1,236	2.8%	9	9	113	164	0	0	1,149	1,063
Kentucky	158	145	9.0%	40	38	3	3	0	0	115	104
Mississippi	593	523	13.4%	0	0	133	97	0	0	460	426
Tennessee	427	412	3.6%	NM	NM	137	120	NM	NM	288	290
West South Central	45,495	40,894	11.3%	603	590	43,491	38,682	27	32	1,373	1,591
Arkansas	392	547	-28.4%	NM	NM	77	81	7	2	307	464
Louisiana	692	763	-9.3%	NM	NM	26	24	0	0	666	738
Oklahoma	10,516	9,859	6.7%	499	489	9,908	9,277	0	0	109	93
Texas	33,895	29,724	14.0%	104	100	33,480	29,299	20	30	292	295
Mountain	17,587	16,047	9.6%	2,107	2,060	15,144	13,676	201	188	136	123
Arizona	1,944	1,739	11.8%	202	195	1,739	1,541	4	4	0	0
Colorado	4,431	4,160	6.5%	741	801	3,681	3,352	8	6	1	1
Idaho	1,379	1,300	6.1%	66	63	1,183	1,121	3	2	127	115
Montana	961	855	12.4%	92	82	862	766	0	0	7	7
Nevada	2,996	2,738	9.4%	27	11	2,789	2,555	180	171	1	1
New Mexico	3,140	2,668	17.7%	108	79	3,031	2,588	NM	NM	0	0
Utah	1,080	1,055	2.4%	72	75	1,004	976	5	4	0	0
Wyoming	1,655	1,531	8.1%	799	755	856	776	0	0	0	0
Pacific Contiguous	26,833	24,751	8.4%	2,994	2,430	22,714	21,229	299	292	826	800
California	19,244	18,742	2.7%	618	629	18,105	17,604	284	278	236	231
Oregon	3,818	2,708	41.0%	503	273	3,100	2,239	10	9	206	187
Washington	3,771	3,301	14.2%	1,873	1,528	1,509	1,386	4	5	385	382
Pacific Noncontiguous	541	492	10.0%	74	74	402	345	65	71	NM	NM
Alaska	75	69	8.0%	40	36	22	20	13	12	NM	NM
Hawaii	466	423	10.3%	34	38	380	325	52	59	0	0
U.S. Total	165,383	148,683	11.2%	22,034	19,279	133,098	119,159	1,098	1,114	9,153	9,131

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

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	-24	-40	-40.5%	0	0	-24	-40	0	0	0	0
Connecticut	1	-2	-177.9%	0	0	1	-2	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-26	-39	-33.9%	0	0	-26	-39	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	-87	-81	7.9%	-38	-44	-49	-37	0	0	0	0
New Jersey	-23	-9	159.3%	-23	-9	0	0	0	0	0	0
New York	-15	-35	-56.5%	-15	-35	0	0	0	0	0	0
Pennsylvania	-49	-37	32.2%	0	0	-49	-37	0	0	0	0
East North Central	-57	-57	-0.7%	-57	-57	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	-57	-57	-0.7%	-57	-57	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	6	75	-91.5%	6	75	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	6	75	-91.5%	6	75	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	-66	-45	47.6%	-66	-45	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	-6	35	-118.2%	-6	35	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	-42	-27	58.0%	-42	-27	0	0	0	0	0	0
Virginia	-18	-53	-66.9%	-18	-53	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-46	-31	45.8%	-46	-31	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	-46	-31	45.8%	-46	-31	0	0	0	0	0	0
West South Central	-1	0	-443.0%	-1	0	0	0	0	0	0	0
Arkansas	10	6	51.3%	10	6	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-10	-6	66.0%	-10	-6	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-3	-13	-78.2%	-3	-13	0	0	0	0	0	0
Arizona	11	-2	-537.1%	11	-2	0	0	0	0	0	0
Colorado	-14	-11	25.2%	-14	-11	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	-47	90	-152.0%	-47	90	0	0	0	0	0	0
California	-47	91	-151.3%	-47	91	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	7.4%	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	-325	-103	214.9%	-252	-26	-73	-78	0	0	0	0

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

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

by State, by Sector, Year-to-Date through April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	-118	-150	-21.6%	0	0	-118	-150	0	0	0	0
Connecticut	-1	0	400.0%	0	0	-1	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-117	-150	-22.1%	0	0	-117	-150	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	-317	-325	-2.6%	-144	-144	-172	-182	0	0	0	0
New Jersey	-75	-30	148.2%	-75	-30	0	0	0	0	0	0
New York	-69	-113	-39.2%	-69	-113	0	0	0	0	0	0
Pennsylvania	-172	-182	-5.0%	0	0	-172	-182	0	0	0	0
East North Central	-214	-180	18.8%	-214	-180	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	-214	-180	18.8%	-214	-180	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	28	188	-85.3%	28	188	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	28	188	-85.3%	28	188	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	-326	-327	-0.1%	-326	-327	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	33	112	-70.4%	33	112	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	-151	-205	-26.3%	-151	-205	0	0	0	0	0	0
Virginia	-209	-234	-10.7%	-209	-234	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-188	-169	11.0%	-188	-169	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	-188	-169	11.0%	-188	-169	0	0	0	0	0	0
West South Central	3	-3	-192.9%	3	-3	0	0	0	0	0	0
Arkansas	33	28	17.0%	33	28	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-30	-31	-2.1%	-30	-31	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-47	-106	-55.9%	-47	-106	0	0	0	0	0	0
Arizona	2	-46	-105.1%	2	-46	0	0	0	0	0	0
Colorado	-49	-60	-18.6%	-49	-60	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	-152	-152	0.0%	-152	-152	0	0	0	0	0	0
California	-156	-153	1.8%	-156	-153	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4	2	184.3%	4	2	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-1,331	-1,224	8.7%	-1,041	-892	-290	-332	0	0	0	0

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

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	156	161	-2.7%	0	0	143	146	3	4	11	11
Connecticut	46	51	-9.7%	0	0	46	51	0	0	0	0
Maine	29	30	-3.7%	0	0	15	15	3	4	11	11
Massachusetts	77	76	2.2%	0	0	77	76	0	0	0	0
New Hampshire	5	5	-1.3%	0	0	5	5	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	199	178	12.1%	0	0	159	131	40	43	0	4
New Jersey	44	48	-7.6%	0	0	31	31	13	13	0	4
New York	81	53	52.1%	0	0	62	33	19	20	0	0
Pennsylvania	74	77	-3.3%	0	0	66	67	8	10	0	0
East North Central	78	63	23.2%	2	2	6	6	6	6	64	49
Illinois	23	18	27.6%	0	0	-1	-1	0	0	24	19
Indiana	37	27	36.2%	0	0	0	0	1	2	36	26
Michigan	13	13	2.7%	0	0	8	7	4	4	1	1
Ohio	1	1	26.2%	0	0	0	0	0	0	2	1
Wisconsin	3	4	-19.3%	2	2	0	0	0	0	NM	NM
West North Central	36	29	26.2%	18	17	12	6	3	NM	3	4
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	-1.2%	0	0	0	0	0	0	0	0
Minnesota	31	24	27.8%	13	13	12	6	3	NM	3	4
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	5	4	19.2%	5	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	387	360	7.8%	0	0	224	204	14	15	149	140
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	265	237	11.8%	0	0	142	130	0	0	123	108
Georgia	7	7	-3.0%	0	0	0	0	0	0	7	7
Maryland	25	20	21.7%	0	0	25	20	0	0	0	0
North Carolina	44	50	-12.0%	0	0	28	28	0	0	16	23
South Carolina	3	3	-6.0%	0	0	0	0	0	0	2	3
Virginia	45	42	6.4%	0	0	31	27	14	15	0	0
West Virginia	-1	-1	143.0%	0	0	-1	-1	0	0	0	0
East South Central	2	4	-48.9%	2	3	0	0	0	0	1	1
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	2	3	-54.5%	2	3	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	-21.3%	0	0	0	0	0	0	1	1
West South Central	67	68	-2.3%	0	0	6	8	0	0	60	60
Arkansas	0	0	-94.8%	0	0	0	0	0	0	0	0
Louisiana	36	31	14.0%	0	0	0	0	0	0	36	31
Oklahoma	1	1	-27.7%	0	0	0	0	0	0	1	1
Texas	30	36	-14.8%	0	0	6	8	0	0	24	27
Mountain	55	61	-9.9%	7	6	23	27	0	0	25	29
Arizona	0	0	-1.3%	0	0	0	0	0	0	0	0
Colorado	6	5	15.8%	0	0	2	2	0	0	4	4
Idaho	6	6	4.1%	0	0	0	0	0	0	6	6
Montana	21	25	-18.4%	0	0	21	25	0	0	0	0
Nevada	2	1	133.5%	2	1	0	0	0	0	0	0
New Mexico	0	0	328.2%	0	0	0	0	0	0	0	0
Utah	13	18	-23.6%	5	5	0	0	0	0	8	13
Wyoming	7	7	6.6%	0	0	0	0	0	0	7	7
Pacific Contiguous	68	67	0.8%	-1	-1	25	24	0	0	44	44
California	59	58	1.3%	-1	-1	15	15	0	0	44	44
Oregon	3	4	-4.3%	0	0	3	4	0	0	0	0
Washington	6	6	-1.5%	0	0	6	6	0	0	0	0
Pacific Noncontiguous	23	29	-22.3%	8	10	0	0	15	19	0	0
Alaska	0	0	-8.3%	0	0	0	0	0	0	0	0
Hawaii	23	30	-22.2%	8	11	0	0	15	19	0	0
U.S. Total	1,072	1,020	5.0%	35	37	598	553	81	88	358	342

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

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

by State, by Sector, Year-to-Date through April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	631	621	1.6%	0	0	573	555	15	21	43	45
Connecticut	191	179	6.6%	0	0	191	179	0	0	0	0
Maine	112	116	-4.0%	0	0	54	50	15	21	43	45
Massachusetts	310	307	1.1%	0	0	310	307	0	0	0	0
New Hampshire	18	19	-1.8%	0	0	18	19	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	814	782	4.1%	0	0	640	607	167	161	7	14
New Jersey	194	192	1.3%	0	0	131	127	57	51	7	14
New York	325	276	17.4%	0	0	252	206	72	71	0	0
Pennsylvania	295	314	-5.9%	0	0	257	275	38	39	0	0
East North Central	275	279	-1.7%	7	6	27	32	26	40	215	202
Illinois	63	80	-22.0%	0	0	-5	-4	0	0	67	85
Indiana	140	104	34.7%	0	0	0	0	8	7	132	97
Michigan	55	76	-27.9%	0	0	32	36	18	32	5	8
Ohio	4	4	-4.6%	0	0	0	0	0	0	4	4
Wisconsin	14	15	-12.2%	7	6	0	0	0	0	7	9
West North Central	140	127	10.4%	60	62	50	39	12	5	18	20
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	2	2	-0.2%	0	0	0	0	0	0	2	2
Minnesota	119	107	11.2%	41	45	50	39	12	5	16	18
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	19	18	6.5%	19	18	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,438	1,513	-5.0%	-1	0	878	862	53	53	507	598
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	979	1,042	-6.0%	-1	0	581	570	0	0	399	473
Georgia	27	32	-13.9%	0	0	0	0	0	0	27	32
Maryland	65	69	-6.4%	0	0	65	69	0	0	0	0
North Carolina	172	182	-5.5%	0	0	102	99	0	0	70	82
South Carolina	14	14	-0.7%	0	0	2	2	0	0	11	12
Virginia	186	176	5.5%	0	0	133	124	53	53	0	0
West Virginia	-5	-2	129.7%	0	0	-5	-2	0	0	0	0
East South Central	20	11	79.9%	18	9	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	18	9	93.4%	18	9	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	2	2	20.0%	0	0	0	0	0	0	2	2
West South Central	266	337	-21.1%	0	0	13	28	0	0	253	309
Arkansas	2	2	11.4%	0	0	0	0	0	0	2	2
Louisiana	136	157	-13.4%	0	0	0	0	0	0	136	157
Oklahoma	1	2	-47.3%	0	0	0	1	0	0	1	2
Texas	126	176	-28.0%	0	0	13	27	0	0	114	148
Mountain	235	239	-1.5%	31	25	96	104	0	0	108	109
Arizona	-2	-1	9.1%	0	0	-2	-1	0	0	0	0
Colorado	22	18	24.1%	0	0	7	4	0	0	15	14
Idaho	24	24	-0.2%	0	0	0	0	0	0	24	24
Montana	90	102	-11.3%	0	0	90	102	0	0	0	0
Nevada	10	6	75.1%	10	6	0	0	0	0	0	0
New Mexico	-1	0	45.9%	-1	0	0	0	0	0	0	0
Utah	61	63	-3.4%	21	20	0	0	0	0	40	43
Wyoming	29	27	6.3%	0	0	0	0	0	0	29	27
Pacific Contiguous	249	271	-8.1%	-4	-5	98	82	0	0	155	194
California	211	243	-13.2%	-4	-5	59	53	0	0	155	194
Oregon	15	4	229.3%	0	0	15	5	0	0	0	0
Washington	24	24	-0.3%	0	0	24	24	0	0	0	0
Pacific Noncontiguous	112	119	-6.0%	49	47	0	0	64	72	0	0
Alaska	-1	-1	-9.7%	-1	-1	0	0	0	0	0	0
Hawaii	113	120	-6.1%	50	48	0	0	64	72	0	0
U.S. Total	4,180	4,299	-2.8%	159	144	2,376	2,310	336	352	1,309	1,493

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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, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	379	397	-4.4%	23	25	352	368	4	3	NM	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	240	260	-7.5%	0	0	240	260	0	0	0	0
Massachusetts	24	25	-2.3%	6	6	15	16	3	3	NM	NM
New Hampshire	50	47	7.9%	0	0	50	47	0	0	0	0
Rhode Island	24	23	5.9%	0	0	23	22	1	1	0	0
Vermont	39	42	-5.3%	17	19	22	23	0	0	0	0
Middle Atlantic	830	918	-9.6%	0	0	829	918	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	452	532	-15.0%	0	0	452	531	NM	NM	NM	NM
Pennsylvania	375	384	-2.1%	0	0	375	384	0	0	0	0
East North Central	3,121	3,265	-4.4%	329	366	2,782	2,886	3	NM	7	9
Illinois	1,593	1,532	4.0%	NM	NM	1,592	1,530	NM	NM	0	0
Indiana	608	698	-12.9%	0	0	608	698	0	0	0	0
Michigan	578	630	-8.3%	235	261	343	370	0	0	0	0
Ohio	172	211	-18.3%	NM	NM	164	201	0	0	7	8
Wisconsin	169	194	-12.8%	91	102	75	88	NM	NM	1	1
West North Central	8,622	8,286	4.1%	2,990	2,990	5,628	5,290	NM	5	0	0
Iowa	2,844	2,866	-0.8%	2,066	2,049	778	817	0	0	0	0
Kansas	2,057	1,993	3.2%	166	184	1,890	1,807	NM	NM	0	0
Minnesota	1,085	1,079	0.5%	224	233	858	844	NM	NM	0	0
Missouri	280	307	-8.8%	0	0	280	307	0	0	0	0
Nebraska	725	712	1.8%	28	31	697	681	0	0	0	0
North Dakota	1,171	1,037	12.9%	430	410	740	626	NM	NM	0	0
South Dakota	460	291	58.1%	76	83	384	208	0	0	0	0
South Atlantic	309	306	0.9%	0	0	308	305	1	1	0	0
Delaware	1	1	14.3%	0	0	0	0	1	1	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	54	59	-9.0%	0	0	54	59	0	0	0	0
North Carolina	64	57	12.7%	0	0	64	57	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	189	189	0.4%	0	0	189	189	0	0	0	0
East South Central	5	6	-12.3%	0	0	5	6	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	5	6	-12.3%	0	0	5	6	0	0	0	0
West South Central	10,657	10,618	0.4%	151	163	10,500	10,449	5	5	NM	NM
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	2,660	2,758	-3.5%	127	136	2,533	2,622	0	0	0	0
Texas	7,997	7,861	1.7%	24	27	7,966	7,828	5	5	NM	NM
Mountain	2,598	2,720	-4.5%	424	470	2,174	2,250	NM	NM	0	0
Arizona	47	55	-14.1%	0	0	47	55	0	0	0	0
Colorado	907	1,032	-12.1%	188	222	718	809	0	NM	0	0
Idaho	256	283	-9.5%	15	17	241	266	0	0	0	0
Montana	249	235	6.0%	23	24	227	211	0	0	0	0
Nevada	28	32	-13.7%	0	0	28	32	0	0	0	0
New Mexico	662	588	12.6%	0	0	662	588	NM	NM	0	0
Utah	52	66	-21.3%	0	0	52	66	0	0	0	0
Wyoming	397	429	-7.4%	198	207	200	222	0	0	0	0
Pacific Contiguous	2,947	3,121	-5.6%	629	651	2,317	2,469	1	1	0	0
California	1,356	1,485	-8.7%	75	66	1,280	1,418	1	1	0	0
Oregon	808	767	5.4%	133	117	674	650	0	0	0	0
Washington	783	869	-9.9%	421	468	362	401	0	0	0	0
Pacific Noncontiguous	66	74	-10.8%	10	11	57	63	0	0	0	0
Alaska	15	17	-9.8%	10	11	5	6	0	0	0	0
Hawaii	51	58	-11.1%	0	0	51	58	0	0	0	0
U.S. Total	29,534	29,711	-0.6%	4,556	4,676	24,950	25,005	18	18	10	11

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

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

by State, by Sector, Year-to-Date through April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	1,471	1,380	6.6%	92	83	1,365	1,282	13	14	NM	NM
Connecticut	5	NM	NM	0	0	5	NM	0	0	0	0
Maine	933	922	1.1%	0	0	933	922	0	0	0	0
Massachusetts	95	83	15.6%	24	21	60	50	10	11	NM	NM
New Hampshire	198	145	36.6%	0	0	198	145	0	0	0	0
Rhode Island	90	87	4.0%	0	0	87	83	3	3	0	0
Vermont	150	139	7.7%	69	62	81	77	0	0	0	0
Middle Atlantic	3,292	3,102	6.1%	0	0	3,289	3,099	NM	NM	NM	NM
New Jersey	9	NM	NM	0	0	9	NM	0	0	0	0
New York	1,781	1,797	-0.9%	0	0	1,778	1,795	NM	NM	NM	NM
Pennsylvania	1,503	1,297	15.9%	0	0	1,503	1,297	0	0	0	0
East North Central	12,285	11,345	8.3%	1,334	1,147	10,908	10,159	12	10	31	29
Illinois	6,048	5,316	13.8%	5	NM	6,041	5,309	NM	NM	0	0
Indiana	2,443	2,445	-0.1%	0	0	2,443	2,445	0	0	0	0
Michigan	2,350	2,156	9.0%	960	826	1,390	1,330	0	0	0	0
Ohio	764	828	-7.7%	5	NM	730	797	1	1	28	26
Wisconsin	680	600	13.3%	364	312	304	278	8	NM	3	3
West North Central	33,736	29,054	16.1%	11,524	10,172	22,195	18,865	18	17	0	0
Iowa	10,995	9,520	15.5%	7,843	6,745	3,150	2,773	2	1	0	0
Kansas	7,890	7,062	11.7%	632	644	7,253	6,413	NM	NM	0	0
Minnesota	4,322	3,932	9.9%	911	871	3,401	3,051	10	NM	0	0
Missouri	1,087	1,055	3.1%	0	0	1,087	1,055	0	0	0	0
Nebraska	2,980	2,547	17.0%	111	106	2,869	2,441	0	0	0	0
North Dakota	4,672	3,867	20.8%	1,715	1,493	2,956	2,372	NM	NM	0	0
South Dakota	1,790	1,072	67.0%	311	312	1,479	760	0	0	0	0
South Atlantic	1,192	1,080	10.4%	0	0	1,190	1,078	2	2	0	0
Delaware	2	2	-3.5%	0	0	0	0	2	2	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	219	212	3.3%	0	0	219	212	0	0	0	0
North Carolina	243	216	12.8%	0	0	243	216	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	728	650	11.9%	0	0	728	650	0	0	0	0
East South Central	19	14	34.5%	0	0	19	14	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	19	14	34.5%	0	0	19	14	0	0	0	0
West South Central	42,184	37,824	11.5%	579	569	41,582	37,232	19	18	NM	NM
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	10,383	9,742	6.6%	481	471	9,902	9,271	0	0	0	0
Texas	31,801	28,082	13.2%	98	98	31,681	27,961	19	18	NM	NM
Mountain	10,777	9,910	8.7%	1,692	1,695	9,083	8,212	NM	NM	1	1
Arizona	187	193	-2.9%	0	0	187	193	0	0	0	0
Colorado	3,972	3,767	5.4%	739	800	3,231	2,965	NM	NM	1	1
Idaho	1,035	971	6.6%	62	58	973	912	0	0	0	0
Montana	945	839	12.5%	92	82	853	757	0	0	0	0
Nevada	109	112	-2.7%	0	0	109	112	0	0	0	0
New Mexico	2,668	2,257	18.2%	0	0	2,667	2,256	NM	NM	0	0
Utah	261	288	-9.3%	0	0	261	288	0	0	0	0
Wyoming	1,599	1,483	7.8%	799	755	800	728	0	0	0	0
Pacific Contiguous	11,435	9,977	14.6%	2,475	1,886	8,956	8,087	2	2	1	1
California	5,061	5,087	-0.5%	227	219	4,831	4,864	2	2	1	1
Oregon	3,149	2,140	47.1%	483	254	2,666	1,886	0	0	0	0
Washington	3,224	2,750	17.3%	1,766	1,413	1,459	1,337	0	0	0	0
Pacific Noncontiguous	266	263	1.2%	40	36	226	227	0	0	0	0
Alaska	61	56	9.0%	40	36	22	20	0	0	0	0
Hawaii	205	207	-0.9%	0	0	205	207	0	0	0	0
U.S. Total	116,656	103,948	12.2%	17,736	15,588	98,813	88,255	68	67	40	38

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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, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	422	464	-8.9%	4	23	320	340	7	10	91	90
Connecticut	57	61	-7.1%	0	0	57	61	0	0	0	0
Maine	166	188	-11.7%	0	0	72	94	2	3	91	90
Massachusetts	86	84	2.1%	0	0	84	81	2	3	0	0
New Hampshire	77	92	-16.2%	0	12	74	76	3	4	0	0
Rhode Island	19	14	32.9%	0	0	19	14	0	0	0	0
Vermont	18	25	-25.9%	4	11	14	13	0	0	0	0
Middle Atlantic	384	364	5.4%	0	0	299	270	38	41	46	53
New Jersey	58	69	-15.3%	0	0	46	57	12	12	0	0
New York	152	122	25.1%	0	0	125	91	16	17	12	13
Pennsylvania	174	174	-0.2%	0	0	128	122	11	12	35	40
East North Central	395	399	-1.0%	46	46	220	222	10	9	119	123
Illinois	35	33	8.5%	8	8	27	25	0	0	0	0
Indiana	34	32	6.4%	24	22	4	4	1	1	5	5
Michigan	171	178	-4.1%	0	0	119	121	4	3	48	54
Ohio	57	55	3.6%	0	0	35	38	1	1	21	17
Wisconsin	98	101	-3.5%	14	16	34	34	4	3	45	47
West North Central	138	126	9.1%	27	28	51	46	5	7	54	46
Iowa	17	18	-5.3%	NM	NM	10	10	3	3	4	5
Kansas	NM	5	NM	0	0	NM	5	0	0	0	0
Minnesota	102	89	14.9%	17	19	34	29	NM	NM	50	41
Missouri	NM	7	NM	NM	NM	NM	NM	0	2	0	0
Nebraska	7	7	8.4%	6	6	0	0	1	1	0	0
North Dakota	0	NM	NM	0	0	0	0	0	0	0	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,536	1,467	4.7%	136	142	514	463	22	23	864	840
Delaware	NM	4	NM	0	0	NM	3	0	0	NM	NM
District of Columbia	5	5	7.8%	0	0	0	0	5	5	0	0
Florida	369	350	5.5%	44	36	155	148	3	3	166	163
Georgia	441	395	11.6%	0	0	113	78	0	0	328	317
Maryland	27	34	-20.6%	0	0	26	22	1	1	0	11
North Carolina	210	205	2.7%	0	0	101	101	NM	NM	109	103
South Carolina	192	192	0.1%	27	35	25	24	0	0	141	133
Virginia	288	283	1.7%	65	71	91	86	12	13	119	112
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	503	505	-0.3%	7	7	11	21	0	0	485	477
Alabama	287	267	7.5%	0	0	NM	14	0	0	284	253
Kentucky	37	35	3.9%	7	7	NM	1	0	0	29	28
Mississippi	115	117	-1.0%	0	0	NM	NM	0	0	115	116
Tennessee	64	86	-25.3%	0	0	6	5	0	0	58	80
West South Central	376	413	-9.0%	0	0	46	43	0	2	330	368
Arkansas	76	122	-37.7%	0	0	6	6	0	0	70	116
Louisiana	170	173	-1.6%	0	0	6	6	0	0	164	167
Oklahoma	29	18	62.5%	0	0	NM	NM	0	0	28	17
Texas	101	101	0.1%	0	0	32	30	0	1	69	69
Mountain	85	80	6.4%	NM	NM	47	47	2	0	34	32
Arizona	16	16	1.5%	0	0	16	16	0	0	0	0
Colorado	14	13	12.0%	0	0	14	13	0	0	0	0
Idaho	41	39	5.2%	NM	NM	7	8	1	0	32	30
Montana	2	2	11.7%	0	0	0	0	0	0	2	2
Nevada	NM	4	NM	0	0	NM	4	0	0	0	0
New Mexico	NM	2	NM	0	0	NM	2	0	0	0	0
Utah	6	5	34.3%	0	0	NM	5	1	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	662	645	2.5%	34	34	373	368	60	51	195	193
California	449	437	2.8%	7	6	335	329	56	47	51	54
Oregon	86	85	1.4%	NM	4	28	29	2	2	51	49
Washington	127	124	2.4%	23	23	10	9	NM	NM	93	90
Pacific Noncontiguous	22	27	-18.9%	2	5	NM	4	16	19	0	NM
Alaska	3	3	4.0%	0	0	0	0	3	3	0	NM
Hawaii	19	24	-21.9%	2	5	NM	4	12	16	0	0
U.S. Total	4,524	4,491	0.7%	258	284	1,886	1,824	160	161	2,220	2,222

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

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

by State, by Sector, Year-to-Date through April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	1,890	2,084	-9.3%	80	152	1,399	1,520	33	44	378	369
Connecticut	246	243	1.4%	0	0	246	243	0	0	0	0
Maine	718	820	-12.4%	0	0	328	434	12	17	378	369
Massachusetts	349	347	0.5%	0	0	341	338	9	9	0	0
New Hampshire	371	467	-20.6%	14	75	346	376	12	16	0	0
Rhode Island	76	65	17.4%	0	0	76	65	0	0	0	0
Vermont	130	142	-8.9%	66	76	62	65	1	1	0	0
Middle Atlantic	1,599	1,552	3.0%	0	0	1,227	1,179	160	155	212	219
New Jersey	258	272	-5.4%	0	0	206	226	51	47	0	0
New York	626	576	8.6%	0	0	509	457	62	60	55	59
Pennsylvania	715	703	1.6%	0	0	512	496	46	48	157	159
East North Central	1,668	1,753	-4.8%	211	220	935	969	41	53	481	511
Illinois	143	136	5.2%	34	32	109	104	0	0	0	0
Indiana	139	133	4.4%	96	91	16	16	7	6	20	21
Michigan	736	811	-9.2%	0	0	531	553	15	27	190	231
Ohio	231	230	0.4%	0	0	142	155	3	3	86	72
Wisconsin	420	443	-5.4%	81	98	138	140	16	18	184	188
West North Central	595	590	0.9%	104	114	213	196	35	49	243	230
Iowa	71	71	-0.5%	5	5	38	36	12	15	16	17
Kansas	21	20	6.0%	0	0	21	20	0	0	0	0
Minnesota	440	431	1.9%	67	77	142	129	6	14	225	212
Missouri	33	37	-9.1%	9	8	12	12	11	16	1	1
Nebraska	28	29	-1.7%	23	24	0	0	5	5	0	0
North Dakota	NM	NM	NM	0	0	0	0	0	0	NM	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	6,316	6,103	3.5%	609	701	2,171	1,951	90	88	3,447	3,363
Delaware	18	17	4.3%	0	0	14	13	0	0	4	4
District of Columbia	21	18	13.0%	0	0	0	0	21	18	0	0
Florida	1,477	1,510	-2.2%	181	215	643	660	14	13	639	621
Georgia	1,848	1,579	17.0%	0	0	514	286	0	0	1,334	1,293
Maryland	82	124	-33.3%	0	0	76	76	6	8	0	40
North Carolina	850	801	6.0%	0	0	417	404	2	2	431	395
South Carolina	784	815	-3.8%	115	146	124	130	0	0	545	539
Virginia	1,236	1,239	-0.2%	313	340	383	382	46	46	495	471
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,081	1,997	4.2%	29	27	42	88	0	0	2,010	1,882
Alabama	1,160	1,122	3.4%	0	0	12	59	0	0	1,149	1,063
Kentucky	147	134	9.9%	29	27	3	3	0	0	115	104
Mississippi	464	430	7.9%	0	0	4	NM	0	0	460	426
Tennessee	310	311	-0.4%	0	0	24	23	0	0	286	289
West South Central	1,568	1,795	-12.6%	0	0	197	196	2	13	1,369	1,586
Arkansas	334	492	-32.0%	0	0	26	25	2	2	307	464
Louisiana	692	763	-9.3%	0	0	26	24	0	0	666	738
Oklahoma	116	99	16.2%	0	0	7	6	0	0	109	93
Texas	427	441	-3.4%	0	0	139	140	0	11	288	291
Mountain	348	338	3.1%	5	4	203	206	8	6	133	121
Arizona	73	77	-4.6%	0	0	73	77	0	0	0	0
Colorado	58	52	11.8%	0	0	58	52	0	0	0	0
Idaho	163	156	4.6%	5	4	29	35	3	2	126	115
Montana	7	7	3.8%	0	0	0	0	0	0	7	7
Nevada	18	17	6.1%	0	0	18	17	0	0	0	0
New Mexico	4	7	-38.2%	0	0	4	7	0	0	0	0
Utah	25	23	8.5%	0	0	20	19	5	4	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,783	2,775	0.3%	150	158	1,569	1,586	248	242	816	790
California	1,889	1,899	-0.5%	25	26	1,406	1,425	234	228	225	221
Oregon	359	337	6.7%	19	17	125	123	10	9	206	187
Washington	534	539	-0.9%	107	115	38	37	4	5	385	382
Pacific Noncontiguous	92	115	-20.1%	9	26	17	16	65	71	NM	NM
Alaska	14	13	3.7%	0	0	0	0	13	12	NM	NM
Hawaii	78	101	-23.2%	9	26	17	16	52	59	0	0
U.S. Total	18,939	19,102	-0.9%	1,197	1,403	7,973	7,907	681	721	9,089	9,072

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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, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
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	364	317	14.9%	NM	17	305	273	41	27	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	NM	NM	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	320	274	16.9%	0	0	279	247	41	27	0	0
New Mexico	5	6	-6.4%	0	0	5	6	0	0	0	0
Utah	NM	32	NM	NM	17	NM	NM	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	979	911	7.4%	52	46	927	865	0	0	0	0
California	967	900	7.5%	52	46	915	854	0	0	0	0
Oregon	NM	NM	NM	0	0	NM	NM	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	NM	11	NM	0	0	NM	11	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	NM	11	NM	0	0	NM	11	0	0	0	0
U.S. Total	1,356	1,239	9.5%	70	64	1,246	1,149	41	27	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 1.16.B. Utility Scale Facility Net Generation from Geothermal

by State, by Sector, Year-to-Date through April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 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	1,451	1,437	0.9%	72	75	1,217	1,209	162	154	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	23	24	-3.9%	0	0	23	24	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,270	1,250	1.7%	0	0	1,108	1,096	162	154	0	0
New Mexico	22	23	-5.8%	0	0	22	23	0	0	0	0
Utah	136	141	-3.6%	72	75	64	66	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	3,764	3,922	-4.0%	221	240	3,543	3,682	0	0	0	0
California	3,717	3,874	-4.0%	221	240	3,497	3,634	0	0	0	0
Oregon	46	48	-3.5%	0	0	46	48	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	43	46	-6.3%	0	0	43	46	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	43	46	-6.3%	0	0	43	46	0	0	0	0
U.S. Total	5,258	5,406	-2.7%	292	315	4,803	4,937	162	154	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, April 2020 and 2019 (Thousand Megawatthours)

	All Sectors							Electric Power 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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	560	459	21.9%	191	150	368	309	18	13	171	136	NM	NM	NM	NM	202	166	NM	NM	NM	NM	15	12	151	131
Connecticut	90	73	24.6%	23	17	68	56	0	0	22	16	NM	NM	NM	NM	25	21	NM	NM	NM	NM	4	3	38	32
Maine	NM	8	NM	NM	NM	9	7	0	0	NM	NM	3	3	0	0	3	3	0	0	0	0	0	0	5	4
Massachusetts	369	315	17.1%	137	111	232	204	11	9	124	100	NM	NM	NM	NM	142	124	NM	NM	NM	NM	10	8	80	72
New Hampshire	15	12	23.1%	0	0	15	12	0	0	0	0	5	4	0	0	5	4	1	1	0	0	1	1	9	8
Rhode Island	38	20	91.7%	10	6	27	14	0	0	10	6	20	9	0	0	20	9	0	0	0	0	0	0	7	5
Vermont	38	31	20.5%	20	16	18	16	7	3	14	12	7	6	0	0	7	6	NM	0	0	0	NM	0	10	9
Middle Atlantic	762	602	26.4%	248	170	514	432	8	7	220	146	257	203	17	15	239	189	29	NM	2	NM	27	21	248	222
New Jersey	376	316	18.8%	140	108	235	208	8	7	117	88	123	110	15	13	108	97	NM	NM	NM	NM	19	13	108	98
New York	317	232	36.5%	93	54	224	178	0	0	91	52	NM	NM	NM	NM	113	77	NM	NM	NM	NM	2	2	109	100
Pennsylvania	69	54	28.2%	15	8	55	46	0	0	13	7	NM	NM	NM	NM	18	15	NM	NM	NM	NM	6	6	31	25
East North Central	194	137	42.0%	89	70	106	66	29	22	57	46	NM	NM	NM	NM	52	37	6	6	0	0	6	5	48	24
Illinois	43	21	107.0%	7	6	36	15	0	0	6	6	NM	NM	NM	NM	19	9	0	NM	0	0	0	NM	17	6
Indiana	55	43	28.2%	39	31	16	12	20	13	19	18	NM	NM	NM	NM	8	8	0	0	0	0	0	0	7	4
Michigan	33	26	24.9%	17	15	16	11	9	8	7	7	NM	NM	NM	NM	7	5	NM	NM	0	0	NM	NM	9	5
Ohio	42	33	26.5%	19	14	23	19	NM	NM	17	12	NM	NM	NM	NM	12	12	3	3	0	0	3	3	8	5
Wisconsin	21	14	57.0%	7	4	14	10	0	0	7	3	NM	NM	NM	NM	5	4	2	2	0	0	2	2	7	4
West North Central	268	210	27.4%	197	155	71	55	2	2	194	153	32	26	0	0	32	26	3	2	0	0	3	2	36	27
Iowa	NM	17	NM	NM	NM	20	15	NM	NM	NM	NM	12	10	0	0	12	10	1	0	0	0	1	0	7	5
Kansas	11	5	106.4%	7	NM	4	3	NM	NM	6	NM	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Minnesota	187	149	25.6%	174	138	12	10	NM	NM	174	138	3	3	0	0	3	3	2	1	0	0	2	1	8	6
Missouri	43	35	22.6%	10	10	33	25	0	0	10	10	15	11	0	0	15	11	1	0	0	0	1	0	17	13
Nebraska	5	4	19.9%	3	3	2	1	NM	NM	3	3	1	0	0	0	1	0	0	0	0	0	0	0	1	1
North Dakota	0	0	16.7%	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	2,385	1,742	36.9%	2,054	1,468	331	274	640	429	1,400	1,025	88	84	14	14	74	71	NM	NM	NM	NM	35	31	222	171
Delaware	18	17	6.0%	6	5	12	12	NM	NM	5	4	3	3	0	0	3	3	1	1	0	0	1	1	8	8
District of Columbia	NM	9	NM	NM	NM	10	7	0	0	NM	NM	5	4	0	0	5	4	0	0	0	0	0	0	5	4
Florida	649	455	42.8%	552	393	97	62	494	342	57	50	NM	NM	NM	NM	14	13	1	NM	0	NM	1	1	82	48
Georgia	NM	222	NM	336	193	NM	29	31	29	305	164	NM	NM	NM	NM	5	4	NM	NM	0	0	NM	NM	NM	NM
Maryland	152	143	6.3%	57	47	96	97	NM	NM	54	44	NM	NM	NM	NM	24	25	3	3	0	0	3	3	69	68
North Carolina	873	706	23.7%	841	681	32	24	58	37	772	634	22	22	10	10	11	11	1	1	0	0	1	1	19	12
South Carolina	178	98	82.6%	143	67	35	31	NM	NM	141	66	7	8	0	0	7	8	NM	NM	NM	NM	4	2	25	21
Virginia	134	92	46.2%	118	81	16	11	55	19	63	61	NM	NM	NM	NM	5	3	0	0	0	0	0	0	11	8
West Virginia	1	1	27.4%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
East South Central	138	121	14.2%	122	106	17	15	7	7	114	98	NM	NM	NM	NM	10	10	NM	NM	NM	NM	0	0	6	5
Alabama	NM	40	NM	39	39	NM	NM	3	3	36	36	NM	NM	0	0	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	9	7	17.8%	4	4	5	4	4	4	NM	NM	2	2	0	0	2	2	0	0	0	0	0	0	2	1
Mississippi	46	33	41.4%	45	31	2	1	0	0	45	31	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	0
Tennessee	43	41	6.7%	34	32	9	9	NM	NM	33	31	NM	NM	NM	NM	6	6	NM	NM	NM	NM	NM	NM	3	2
West South Central	708	562	25.9%	558	447	150	115	8	7	547	440	30	NM	2	NM	28	25	1	1	0	0	1	1	121	89
Arkansas	24	21	13.1%	19	18	5	3	NM	NM	17	18	4	1	2	0	2	1	0	0	0	0	0	0	3	2
Louisiana	NM	23	NM	NM	NM	24	23	NM	NM	0	0	1	2	0	0	1	2	0	0	0	0	0	0	23	21
Oklahoma	8	8	8.0%	6	6	2	2	6	6	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	1
Texas	651	510	27.6%	533	423	118	87	NM	NM	531	422	NM	NM	NM	NM	24	22	NM	0	0	0	NM	0	94	65
Mountain	2,060	1,812	13.7%	1,550	1,374	510	438	121	97	1,419	1,268	140	128	10	9	131	119	NM	6	NM	0	6	6	373	313
Arizona	746	657	13.7%	469	413	277	243	66	65	402	347	NM	NM	NM	NM	80	71	1	1	0	0	1	1	196	171
Colorado	204	173	17.8%	143	115	62	58	NM	NM	139	113	23	NM	3	NM	20	20	0	0	0	0	0	0	41	38
Idaho	63	57	10.0%	55	52	8	5	0	0	55	52	1	1	0	0	1	1	NM	0	NM	0	0	0	7	4
Montana	6	5	12.0%	3	3	3	2	0	0	3	3	1	1	0	0	1	1	0	0	0	0	0	0	2	2
Nevada	579	500	15.9%	501	439	78	61	19	4	476	429	17	16	6	6	11	10	4	4	0	0	3	3	64	47
New Mexico	180	156	15.4%	148	129	32	27	35	28	113	102	8	8	0	0	8	8	0	0	0	0	0	0	24	19
Utah	261	247	5.7%	212	205	49	41	0	0	212	205	9	8	0	0	9	8	1	1	0	0	1	1	39	32
Wyoming	21	17	22.3%	20	16	1	1	0	0	20	16	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Pacific Contiguous	4,248	3,997	6.3%	2,621	2,547	1,627	1,450	50	49	2,552	2,480	399	374	16	16	383	359	226	201	3	3	223	198	1,021	893
California	4,102	3,884	5.6%	2,526	2,480	1,576	1,403	49	48	2,457	2,414	386	359	16	16	370	343	225	200	3	3	221	197	985	863
Oregon	116	89	31.5%	92	63	25	26	NM	NM	91	62	10	12	0	0	10	12	2	2	0	0	2	2	14	12
Washington	29	25	16.1%	4	4	25	21	0	0	4	4	4	3	0	0	4	3	0	0	0	0	0	0	22	18
Pacific Noncontiguous	154	120	27.6%	46	22	108	98	8	4	38	18	41	40	0	0	41	40	0	0	0	0	0	0	66	58
Alaska	1	1	68.8%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Hawaii	153	120	27.4%	46	22	107	98	8	4	38	18	41	40	0	0	41	40	0	0	0	0	0	0	66	58
U.S. Total	11,477	9,764	17.5%	7,676	6,511	3,801	3,253	891	636	6,713	5,811	1,256	1,099	64	57	1,192	1,042	324	285	8	7	316	278	2,293	1,934

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 April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	1,730	1,434	20.6%	561	458	1,169	976	56	38	499	414	649	536	5	5	644	532	52	41	NM	NM	51	39	474	405
Connecticut	287	227	26.4%	70	51	216	176	1	1	67	47	85	70	NM	NM	83	68	13	9	NM	NM	13	9	121	100
Maine	30	25	19.0%	3	3	27	22	0	0	3	3	9	9	0	0	9	9	0	0	0	0	0	0	17	13
Massachusetts	1,131	986	14.7%	395	338	736	647	35	27	356	308	452	399	NM	NM	449	397	36	29	NM	NM	34	28	252	223
New Hampshire	48	39	24.6%	0	0	48	39	0	0	0	0	16	12	0	0	16	12	3	2	0	0	3	2	29	24
Rhode Island	122	64	91.7%	32	18	91	46	0	0	32	18	67	29	0	0	67	29	0	0	0	0	0	0	24	17
Vermont	112	94	18.9%	60	48	51	46	20	10	40	38	20	17	0	0	20	17	1	1	0	0	1	1	31	28
Middle Atlantic	2,339	1,858	25.9%	730	521	1,609	1,337	22	22	652	447	803	639	48	45	755	594	95	75	7	6	88	68	767	675
New Jersey	1,164	993	17.2%	405	333	760	660	22	22	338	271	402	356	42	39	360	317	65	46	2	NM	62	44	337	299
New York	962	700	37.6%	284	163	679	537	0	0	276	156	343	234	5	5	338	230	8	8	NM	NM	5	5	335	302
Pennsylvania	213	165	28.7%	42	25	171	140	0	0	38	21	58	49	NM	NM	57	47	22	21	2	2	20	19	94	74
East North Central	564	401	40.6%	262	215	302	186	86	68	169	140	155	114	6	6	149	108	17	12	0	1	17	11	136	67
Illinois	124	61	103.4%	20	18	104	43	1	1	18	17	57	26	NM	NM	56	25	0	0	0	0	0	0	48	17
Indiana	163	131	24.2%	116	95	47	35	59	40	56	54	26	25	NM	NM	25	24	1	1	0	0	1	1	21	11
Michigan	91	76	19.5%	48	47	44	29	25	26	22	21	19	15	NM	NM	18	15	1	1	0	0	1	1	24	14
Ohio	124	94	32.4%	56	42	68	52	NM	2	52	38	38	35	NM	NM	36	34	9	5	0	1	8	5	23	13
Wisconsin	62	39	58.8%	23	12	39	27	0	0	21	10	15	12	NM	NM	13	11	6	5	0	0	6	5	20	12
West North Central	795	610	30.3%	576	442	218	168	7	6	569	435	98	80	0	0	98	79	9	6	0	0	9	6	112	82
Iowa	64	49	32.3%	6	4	58	45	2	2	4	NM	35	28	0	0	35	28	2	1	0	0	2	1	21	15
Kansas	25	15	62.2%	10	4	14	11	NM	NM	10	4	5	4	0	0	5	4	0	0	0	0	0	0	9	7
Minnesota	552	422	30.8%	519	394	33	28	NM	NM	518	393	7	9	0	0	7	9	5	3	0	0	5	3	22	16
Missouri	137	110	24.6%	30	30	106	79	1	1	29	29	48	36	0	0	48	36	2	2	0	0	2	2	56	42
Nebraska	16	13	19.9%	10	9	6	4	NM	NM	8	8	2	1	0	0	2	1	0	0	0	0	0	0	3	3
North Dakota	0	0	19.3%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	1	1	10.9%	NM	NM	0	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	7,301	5,353	36.4%	6,226	4,491	1,075	862	2,071	1,339	4,110	3,109	290	273	43	41	247	232	119	107	NM	NM	117	105	711	526
Delaware	57	52	8.8%	17	15	40	37	NM	2	15	13	11	11	0	0	11	11	3	3	0	0	3	3	26	24
District of Columbia	40	28	42.4%	5	4	35	25	0	0	5	4	17	12	0	0	17	12	0	0	0	0	0	0	18	12
Florida	2,151	1,430	50.4%	1,831	1,231	320	200	1,643	1,072	184	155	51	45	3	3	48	42	5	4	NM	NM	5	4	268	154
Georgia	1,093	675	61.9%	991	580	103	96	93	90	897	489	15	14	NM	NM	14	13	80	77	0	0	80	77	8	6
Maryland	471	427	10.3%	172	142	299	285	2	2	163	134	85	84	6	5	79	78	11	11	0	0	11	11	209	195
North Carolina	2,564	2,159	18.7%	2,458	2,078	106	81	168	113	2,259	1,933	69	70	31	31	38	39	4	2	0	0	4	2	64	40
South Carolina	523	301	73.8%	408	202	114	99	NM	NM	404	200	23	25	0	0	23	25	14	9	NM	NM	13	8	78	66
Virginia	397	277	43.6%	344	240	53	37	160	58	183	181	16	11	NM	NM	15	11	1	1	0	0	1	1	37	26
West Virginia	5	4	28.0%	0	0	5	4	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	3	2
East South Central	402	353	14.0%	348	305	53	48	20	20	325	282	35	33	NM	NM	33	32	3	3	NM	2	1	1	19	15
Alabama	114	118	-2.8%	110	113	5	4	9	9	101	105	3	3	0	0	3	3	0	0	0	0	0	0	1	1
Kentucky	26	22	16.0%	11	11	15	11	11	11	NM	NM	7	6	0	0	7	6	0	0	0	0	0	0	8	4
Mississippi	134	97	38.2%	129	93	5	4	0	0	129	93	3	2	0	0	3	2	0	0	0	0	0	0	2	2
Tennessee	127	115	10.5%	98	87	29	28	NM	NM	94	83	22	21	NM	NM	21	20	2	2	NM	2	0	0	9	8
West South Central	2,226	1,643	35.5%	1,743	1,275	483	368	24	21	1,712	1,253	99	83	7	NM	92	82	2	2	0	0	2	2	389	285
Arkansas	73	65	11.6%	57	56	16	10	NM	NM	51	55	11	3	6	0	5	3	1	1	0	0	1	1	9	6
Louisiana	78	74	5.2%	NM	NM	77	74	NM	NM	0	0	4	5	0	0	4	5	0	0	0	0	0	0	73	68
Oklahoma	26	23	10.7%	18	17	8	6	18	17	0	0	2	1	0	0	2	1	0	0	0	0	0	0	6	4
Texas	2,049	1,481	38.4%	1,667	1,201	382	279	6	2	1,660	1,198	82	73	NM	NM	81	72	1	1	0	0	1	1	301	206
Mountain	6,424	5,483	17.2%	4,763	4,078	1,662	1,405	339	286	4,392	3,766	468	420	29	26	439	394	24	22	2	1	22	21	1,201	990
Arizona	2,364	2,045	15.6%	1,458	1,263	906	783	202	195	1,252	1,065	275	240	4	4	272	236	4	4	0	0	4	4	630	542
Colorado	603	530	13.6%	401	341	201	190	2	NM	391	335	75	73	8	5	67	68	1	1	0	0	1	1	133	121
Idaho	181	164	10.5%	159	150	22	14	0	0	157	150	2	2	0	0	2	2	2	1	NM	0	1	1	19	12
Montana	18	16	12.7%	10	9	8	7	0	0	10	9	2	2	0	0	2	2	0	0	0	0	0	0	6	5
Nevada	1,830	1,472	24.3%	1,576	1,284	254	189	27	11	1,531	1,254	54	51	18	18	36	34	13	13	1	1	12	12	206	143
New Mexico	558	472	18.3%	446	381	112	91	108	79	338	303	30	27	0	0	30	27	0	0	0	0	0	0	82	63
Utah	812	734	10.7%	658	603	155	131	0	0	658	603	29	25	0	0	29	25	3	3	0	0	3	3	123	103
Wyoming	59	50	16.6%	55	48	3	2	0	0	55	48	1	1	0	0	1	1	0	0	0	0	0	0	3	2
Pacific Contiguous	13,491	11,991	12.5%	8,328	7,547	5,163	4,443	148	146	8,122	7,345	1,285	1,150	48	47	1,237	1,103	715	632	10	9	706	622	3,221	2,718
California	13,080	11,677	12.0%	8,052	7,352	5,028	4,324	146	144	7,848	7,152	1,249	1,113	48	47	1,201	1,066	711	627	10	9	701	618	3,126	2,640
Oregon	331	247	34.0%	264	183	68	65	NM	2	262	181	26	29	0	0	26	29	4	4	0	0	4	4	37	31
Washington	80	66	19.9%	12	12	67	54	0	0	12	12	10	8	0	0	10	8	0	0	0	0	0	0	57	46
Pacific Noncontiguous	519	414	25.3%	141	69	378	346	26	13	115	56	144	137	0	0	144	137	1	1	0	0	1	1	233	208
Alaska	2	1	71.4%	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Hawaii	517	413	25.2%	141	69	377	345	26	13	115	56	143	136	0	0	143	136	1	1	0	0	1	1	232	207
U.S. Total	35,790	29,539	21.2%	23,677	19,400	12,113	10,139	2,800	1,959	20,665	17,248	4,025	3,464	188	172	3,837	3,292	1,038	899	24	22	1,013	877	7,263	5,970

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
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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.
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, April 2020 and 2019 (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	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	29	0	--	0	0	29	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	29	0	--	0	0	29	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	2	6	-58.2%	2	6	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2	6	-58.2%	2	6	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	94	103	-8.0%	0	0	94	103	0	0	0	0
Arizona	86	89	-3.2%	0	0	86	89	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	8	14	-39.6%	0	0	8	14	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	209	217	-3.6%	0	0	209	217	0	0	0	0
California	209	217	-3.6%	0	0	209	217	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	334	325	2.9%	2	6	332	319	0	0	0	0

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

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

by State, by Sector, Year-to-Date through April 2020 and 2019 (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	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 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	71	0	--	0	0	71	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	71	0	--	0	0	71	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	9	14	-36.0%	9	14	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	9	14	-36.0%	9	14	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	249	283	-12.1%	0	0	249	283	0	0	0	0
Arizona	226	207	9.3%	0	0	226	207	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	23	76	-70.1%	0	0	23	76	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	524	529	-0.9%	0	0	524	529	0	0	0	0
California	524	529	-0.9%	0	0	524	529	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	853	827	3.2%	9	14	844	812	0	0	0	0

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

Chapter 2

Consumption of Fossil Fuels

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2010-April 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	663,911	484,389	176,643	95	2,783
2018	636,213	473,617	159,976	87	2,534
2019	538,465	398,671	137,460	78	2,257
Year 2018					
January	64,845	47,762	16,817	11	255
February	45,793	34,002	11,552	9	230
March	44,474	32,312	11,930	8	224
April	40,515	30,350	9,965	7	193
May	47,293	35,261	11,815	6	211
June	56,078	42,502	13,360	6	210
July	63,818	48,277	15,322	6	212
August	63,737	47,866	15,660	7	204
Sept	53,914	40,293	13,415	7	199
October	48,422	35,547	12,695	6	173
November	51,702	37,956	13,537	7	202
December	55,624	41,488	13,908	7	221
Year 2019					
January	55,831	41,298	14,305	10	218
February	45,056	33,365	11,484	8	198
March	44,038	31,673	12,185	9	172
April	33,432	24,481	8,781	6	165
May	40,061	30,220	9,654	6	181
June	44,274	33,482	10,611	4	176
July	56,062	42,233	13,617	6	205
August	52,512	39,619	12,686	5	202
Sept	47,418	35,347	11,876	6	189
October	37,435	26,979	10,273	6	177
November	41,918	30,311	11,414	6	188
December	40,429	29,663	10,574	7	184
Year 2020					
January	36,697	27,198	9,302	6	191
February	31,971	23,594	8,189	9	179
March	28,917	21,602	7,139	6	171
April	23,617	16,922	6,542	4	150
Year to Date					
2018	195,627	144,426	50,264	35	902
2019	178,357	130,817	46,754	32	754
2020	121,202	89,316	31,172	24	690
Rolling 12 Months Ending in April					
2019	618,943	460,008	156,466	84	2,385
2020	481,311	357,170	121,877	70	2,194

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-April 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	14,667	2,802	1,158	515	10,192
2018	13,813	2,268	1,356	490	9,700
2019	12,720	2,194	1,091	448	8,987
Year 2018					
January	1,434	237	144	65	987
February	1,285	216	126	51	892
March	1,254	202	119	49	885
April	1,095	188	100	40	767
May	1,081	173	106	33	769
June	1,081	184	107	30	759
July	1,078	189	105	34	750
August	1,064	181	103	35	745
Sept	1,061	183	97	38	743
October	984	159	72	35	718
November	1,167	173	141	40	813
December	1,229	182	135	40	872
Year 2019					
January	1,305	212	168	49	877
February	1,139	201	91	44	802
March	1,127	202	108	45	772
April	1,044	155	104	33	752
May	1,001	136	100	34	731
June	1,015	177	106	26	706
July	969	186	87	34	662
August	999	208	71	37	682
Sept	931	179	60	37	656
October	1,060	177	68	33	783
November	1,059	177	60	38	784
December	1,070	183	69	39	780
Year 2020					
January	1,047	164	53	35	795
February	1,002	150	51	40	761
March	926	135	40	34	716
April	813	104	41	26	642
Year to Date					
2018	5,068	843	490	205	3,530
2019	4,615	770	470	171	3,203
2020	3,788	553	186	135	2,914
Rolling 12 Months Ending in April					
2019	13,360	2,195	1,336	456	9,373
2020	11,893	1,976	806	413	8,698

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-April 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	678,578	487,192	177,801	610	12,975
2018	650,027	475,885	161,332	577	12,233
2019	551,185	400,864	138,550	526	11,244
Year 2018					
January	66,279	47,999	16,961	76	1,242
February	47,079	34,219	11,679	59	1,122
March	45,728	32,513	12,049	57	1,109
April	41,610	30,538	10,065	47	960
May	48,374	35,435	11,921	39	979
June	57,159	42,687	13,467	36	969
July	64,895	48,467	15,427	40	962
August	64,801	48,047	15,763	42	949
Sept	54,975	40,475	13,512	45	943
October	49,406	35,706	12,768	42	891
November	52,868	38,129	13,677	47	1,015
December	56,853	41,670	14,043	47	1,093
Year 2019					
January	57,136	41,510	14,472	58	1,095
February	46,195	33,567	11,575	52	1,000
March	45,165	31,874	12,292	54	944
April	34,476	24,636	8,884	39	918
May	41,062	30,356	9,754	40	912
June	45,289	33,659	10,717	31	882
July	57,031	42,419	13,704	40	867
August	53,511	39,827	12,757	42	885
Sept	48,349	35,525	11,936	42	845
October	38,495	27,156	10,341	38	960
November	42,977	30,488	11,473	44	971
December	41,499	29,846	10,642	46	964
Year 2020					
January	37,744	27,362	9,355	41	986
February	32,973	23,744	8,241	48	940
March	29,843	21,737	7,179	41	887
April	24,430	17,026	6,582	30	792
Year to Date					
2018	200,695	145,269	50,754	239	4,432
2019	182,972	131,587	47,225	203	3,957
2020	124,990	89,869	31,357	159	3,605
Rolling 12 Months Ending in April					
2019	632,303	462,203	157,802	541	11,758
2020	493,204	359,146	122,683	482	10,892

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-April 2020 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	21,696	15,567	5,461	191	476
2018	28,614	18,345	9,467	269	534
2019	20,430	14,920	4,806	245	459
Year 2018					
January	9,468	4,469	4,861	66	72
February	1,451	1,118	270	14	49
March	1,497	1,096	348	12	42
April	1,601	1,169	383	15	34
May	1,863	1,340	463	18	43
June	1,895	1,378	464	18	35
July	1,753	1,216	454	27	56
August	1,870	1,295	516	24	35
Sept	1,863	1,401	411	18	33
October	1,814	1,368	390	16	40
November	1,799	1,281	452	22	45
December	1,740	1,216	455	20	49
Year 2019					
January	2,423	1,611	745	23	44
February	1,411	1,013	343	13	41
March	1,449	1,072	323	16	39
April	1,397	988	348	15	46
May	1,653	1,227	370	18	37
June	1,731	1,325	351	18	37
July	1,820	1,287	475	25	33
August	1,892	1,448	383	22	39
Sept	1,661	1,261	336	27	37
October	1,697	1,263	376	24	33
November	1,607	1,177	369	24	37
December	1,690	1,248	387	21	35
Year 2020					
January	1,711	1,385	269	21	34
February	1,396	1,115	233	12	35
March	1,330	947	335	17	32
April	1,149	872	236	12	29
Year to Date					
2018	14,017	7,851	5,862	107	197
2019	6,680	4,683	1,759	67	170
2020	5,586	4,319	1,074	62	130
Rolling 12 Months Ending in April					
2019	21,277	15,177	5,364	229	507
2020	19,336	14,556	4,121	240	419

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-April 2020 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	2,012	72	220	238	1,482
2018	2,614	103	354	350	1,807
2019	2,285	70	250	405	1,559
Year 2018					
January	701	58	132	109	402
February	179	4	12	25	138
March	156	3	13	21	118
April	136	3	12	17	104
May	147	4	18	16	109
June	162	5	14	15	128
July	156	3	11	28	114
August	143	4	12	23	104
Sept	130	7	15	15	93
October	190	5	16	16	153
November	228	3	20	30	174
December	287	3	80	35	169
Year 2019					
January	375	20	45	45	266
February	186	8	21	27	130
March	172	4	22	29	118
April	160	3	19	17	120
May	267	6	18	120	124
June	143	4	18	13	108
July	120	4	14	25	76
August	151	6	14	23	108
Sept	157	4	21	28	104
October	139	4	21	21	93
November	261	4	19	32	206
December	154	4	18	25	107
Year 2020					
January	138	4	11	25	99
February	128	4	11	17	96
March	119	3	13	19	84
April	107	6	14	11	76
Year to Date					
2018	1,172	69	169	172	762
2019	893	35	107	118	633
2020	492	16	50	72	354
Rolling 12 Months Ending in April					
2019	2,334	69	291	296	1,678
2020	1,884	51	193	359	1,280

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-April 2020 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	23,708	15,640	5,681	429	1,958
2018	31,228	18,448	9,820	619	2,341
2019	22,715	14,990	5,056	650	2,018
Year 2018					
January	10,169	4,527	4,993	175	474
February	1,630	1,122	282	39	187
March	1,653	1,099	361	33	160
April	1,738	1,172	395	32	138
May	2,010	1,343	480	34	152
June	2,057	1,383	478	33	164
July	1,909	1,219	465	55	170
August	2,012	1,298	528	46	140
Sept	1,993	1,407	426	34	127
October	2,003	1,373	406	31	193
November	2,027	1,284	472	52	219
December	2,027	1,220	534	55	218
Year 2019					
January	2,798	1,630	790	68	310
February	1,597	1,021	365	40	171
March	1,621	1,076	344	44	156
April	1,557	991	367	33	166
May	1,920	1,233	388	138	161
June	1,874	1,328	369	31	146
July	1,939	1,291	489	50	109
August	2,042	1,454	397	45	147
Sept	1,818	1,265	357	56	140
October	1,836	1,267	398	45	126
November	1,869	1,181	388	55	243
December	1,845	1,252	405	46	142
Year 2020					
January	1,849	1,389	281	46	133
February	1,524	1,119	244	29	132
March	1,449	949	348	36	116
April	1,256	878	251	23	104
Year to Date					
2018	15,190	7,920	6,031	279	959
2019	7,573	4,719	1,866	185	803
2020	6,078	4,335	1,124	134	484
Rolling 12 Months Ending in April					
2019	23,611	15,246	5,655	525	2,185
2020	21,220	14,607	4,314	600	1,699

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-April 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	3,490	2,731	542	3	214
2018	3,623	2,740	704	2	177
2019	2,806	2,067	556	1	182
Year 2018					
January	377	296	67	0	14
February	305	234	60	0	11
March	255	198	43	0	13
April	271	193	63	0	15
May	212	140	58	0	14
June	338	269	51	0	18
July	367	284	66	0	17
August	352	272	66	0	15
Sept	325	259	50	0	15
October	229	158	54	0	16
November	271	196	63	0	13
December	321	241	65	0	16
Year 2019					
January	329	258	56	0	14
February	283	222	50	0	11
March	266	193	60	0	13
April	182	107	60	0	15
May	298	219	63	0	15
June	218	151	53	0	14
July	314	227	61	0	25
August	278	203	59	0	15
Sept	259	183	59	0	17
October	82	64	3	0	14
November	130	101	15	0	14
December	167	137	16	0	15
Year 2020					
January	285	204	66	0	15
February	174	147	14	0	13
March	273	210	50	0	13
April	230	179	43	0	8
Year to Date					
2018	1,208	921	232	1	53
2019	1,060	781	226	1	53
2020	962	740	173	1	49
Rolling 12 Months Ending in April					
2019	3,475	2,600	697	2	176
2020	2,707	2,025	503	1	178

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-April 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	977	11	115	15	836
2018	929	12	93	10	814
2019	865	17	93	6	750
Year 2018					
January	88	1	9	2	76
February	78	1	8	2	67
March	72	1	9	1	61
April	83	1	10	1	71
May	70	1	6	0	63
June	75	1	1	0	73
July	81	1	9	0	71
August	77	1	9	0	66
Sept	74	1	7	1	65
October	77	0	9	1	67
November	71	1	8	2	61
December	83	1	8	2	72
Year 2019					
January	74	1	8	2	63
February	65	1	8	1	55
March	77	1	9	1	66
April	75	2	9	1	63
May	78	1	9	0	69
June	73	1	7	0	65
July	79	2	8	0	69
August	71	0	8	0	63
Sept	91	2	7	0	82
October	59	1	2	0	56
November	52	2	9	0	41
December	70	2	9	1	58
Year 2020					
January	78	1	9	2	65
February	48	1	9	1	36
March	41	1	9	0	31
April	33	3	8	0	23
Year to Date					
2018	321	5	36	5	275
2019	291	6	33	5	246
2020	200	7	35	3	156
Rolling 12 Months Ending in April					
2019	899	13	91	10	785
2020	775	17	95	4	659

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 2018 and prior years are final. Values for 2019 and 2020 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, 2010-April 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	4,467	2,742	657	17	1,050
2018	4,552	2,752	797	12	991
2019	3,671	2,083	649	7	932
Year 2018					
January	466	297	76	2	90
February	382	235	68	2	78
March	327	199	52	2	74
April	354	195	72	1	86
May	281	141	63	0	77
June	413	270	52	0	91
July	448	285	75	0	88
August	429	273	75	0	81
Sept	399	260	58	1	80
October	306	159	63	1	83
November	342	196	70	2	74
December	404	242	73	2	88
Year 2019					
January	402	260	64	2	77
February	348	224	58	1	66
March	343	194	68	2	79
April	257	110	69	1	78
May	376	220	72	0	84
June	291	152	60	0	79
July	393	230	69	0	95
August	349	203	68	0	78
Sept	350	185	67	0	98
October	141	65	5	0	70
November	182	102	24	0	56
December	237	139	25	1	73
Year 2020					
January	363	205	76	2	80
February	222	148	23	1	50
March	314	211	59	0	44
April	263	182	50	0	31
Year to Date					
2018	1,529	926	268	6	329
2019	1,351	787	259	7	299
2020	1,162	746	208	4	205
Rolling 12 Months Ending in April					
2019	4,375	2,614	788	12	961
2020	3,482	2,042	598	5	837

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, 2010-April 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	9,508,062	4,754,893	4,161,984	50,060	541,126
2018	10,833,043	5,551,181	4,663,935	52,650	565,276
2019	11,550,825	5,958,855	4,958,970	53,622	579,377
Year 2018					
January	805,929	425,891	327,351	4,145	48,542
February	706,517	363,824	296,296	3,886	42,511
March	772,448	395,826	329,151	4,071	43,400
April	722,667	372,401	303,383	3,616	43,268
May	868,518	459,568	359,038	4,201	45,712
June	973,956	520,305	402,054	4,633	46,963
July	1,245,648	639,299	549,546	5,518	51,285
August	1,208,900	605,610	546,123	5,593	51,575
Sept	1,051,922	530,570	468,776	4,838	47,737
October	909,338	457,374	400,338	4,290	47,335
November	784,673	395,480	337,321	3,760	48,112
December	782,527	385,034	344,559	4,098	48,836
Year 2019					
January	860,020	432,058	372,463	4,517	50,981
February	793,583	406,415	338,912	4,129	44,128
March	815,951	415,407	349,668	4,332	46,544
April	755,102	392,685	313,252	4,039	45,126
May	852,486	449,520	351,859	4,218	46,890
June	1,012,529	537,372	423,972	4,355	46,829
July	1,294,629	673,371	565,943	5,002	50,313
August	1,308,612	687,844	564,762	5,152	50,854
Sept	1,115,418	581,736	481,039	4,665	47,978
October	981,373	509,470	419,699	4,351	47,854
November	842,003	421,378	366,242	4,309	50,074
December	919,118	451,599	411,160	4,552	51,807
Year 2020					
January	952,082	484,401	410,175	4,610	52,896
February	902,594	471,058	379,128	4,138	48,271
March	899,962	475,282	371,903	4,021	48,756
April	780,120	416,058	317,179	3,526	43,357
Year to Date					
2018	3,007,561	1,557,942	1,256,181	15,718	177,720
2019	3,224,656	1,646,565	1,374,295	17,017	186,779
2020	3,534,759	1,846,799	1,478,385	16,295	193,280
Rolling 12 Months Ending in April					
2019	11,050,138	5,639,804	4,782,049	53,950	574,335
2020	11,860,927	6,159,090	5,063,060	52,900	585,878

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

Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2010-April 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	1,168,544	38,740	309,949	104,324	715,532
2018	1,205,962	43,156	331,952	81,856	748,997
2019	1,239,527	46,793	342,807	80,544	769,383
Year 2018					
January	107,213	3,929	28,934	7,417	66,933
February	94,793	3,366	26,629	6,706	58,093
March	100,213	3,557	28,088	6,844	61,724
April	92,932	2,942	25,265	6,133	58,592
May	94,707	3,306	26,238	6,099	59,064
June	97,016	3,642	26,642	6,537	60,196
July	107,003	4,484	30,339	7,649	64,531
August	105,929	4,079	29,861	7,691	64,297
Sept	99,289	3,479	27,089	6,581	62,140
October	99,045	3,013	27,218	6,411	62,402
November	101,846	3,185	27,080	6,829	64,751
December	105,976	4,174	28,570	6,959	66,273
Year 2019					
January	113,278	3,993	32,023	7,638	69,624
February	100,217	3,790	27,223	6,884	62,320
March	104,850	3,703	29,358	6,896	64,893
April	97,156	3,166	26,595	6,151	61,245
May	98,314	3,375	26,480	6,008	62,449
June	99,519	4,099	27,809	6,327	61,285
July	104,637	4,806	29,104	6,792	63,934
August	106,122	4,697	30,997	6,667	63,761
Sept	99,954	4,233	27,779	6,336	61,606
October	99,767	3,232	27,473	6,369	62,694
November	104,425	3,738	28,110	6,983	65,595
December	111,289	3,963	29,855	7,494	69,977
Year 2020					
January	113,337	4,083	31,051	7,474	70,729
February	103,523	3,835	28,827	6,849	64,012
March	105,716	3,947	29,648	6,685	65,436
April	99,410	3,865	26,816	5,990	62,740
Year to Date					
2018	395,152	13,794	108,915	27,100	245,343
2019	415,501	14,651	115,198	27,569	258,082
2020	421,986	15,730	116,342	26,998	262,917
Rolling 12 Months Ending in April					
2019	1,226,311	44,014	338,236	82,326	761,736
2020	1,246,012	47,871	343,951	79,972	774,218

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, 2010-April 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	10,676,606	4,793,632	4,471,933	154,383	1,256,658
2018	12,039,005	5,594,338	4,995,888	134,507	1,314,273
2019	12,790,352	6,005,649	5,301,778	134,166	1,348,760
Year 2018					
January	913,142	429,820	356,285	11,562	115,475
February	801,310	367,190	322,924	10,592	100,604
March	872,661	399,383	357,239	10,914	105,124
April	815,600	375,343	328,647	9,750	101,860
May	963,226	462,873	385,276	10,300	104,776
June	1,070,972	523,947	428,696	11,170	107,159
July	1,352,652	643,783	579,885	13,167	115,816
August	1,314,829	609,689	575,984	13,285	115,872
Sept	1,151,210	534,049	495,866	11,419	109,877
October	1,008,383	460,387	427,556	10,702	109,738
November	886,519	398,665	364,401	10,589	112,863
December	888,503	389,208	373,128	11,058	115,109
Year 2019					
January	973,298	436,051	404,486	12,155	120,605
February	893,800	410,205	366,134	11,013	106,448
March	920,801	419,110	379,026	11,228	111,438
April	852,258	395,850	339,847	10,190	106,371
May	950,800	452,895	378,339	10,226	109,339
June	1,112,048	541,471	451,782	10,682	108,113
July	1,399,265	678,178	595,047	11,794	114,247
August	1,414,734	692,541	595,760	11,819	114,615
Sept	1,215,372	585,969	508,818	11,001	109,584
October	1,081,140	512,701	447,172	10,720	110,547
November	946,429	425,116	394,352	11,292	115,669
December	1,030,408	455,562	441,015	12,046	121,785
Year 2020					
January	1,065,419	488,484	441,227	12,084	123,625
February	1,006,117	474,894	407,955	10,987	112,283
March	1,005,678	479,229	401,550	10,706	114,193
April	879,530	419,923	343,995	9,516	106,097
Year to Date					
2018	3,402,713	1,571,736	1,365,096	42,818	423,063
2019	3,640,157	1,661,216	1,489,493	44,586	444,861
2020	3,956,745	1,862,529	1,594,726	43,293	456,197
Rolling 12 Months Ending in April					
2019	12,276,450	5,683,818	5,120,285	136,275	1,336,071
2020	13,106,940	6,206,961	5,407,011	132,872	1,360,095

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, 2010-April 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	278,112	25,074	229,050	20,121	3,866
2018	270,235	23,580	223,513	19,790	3,352
2019	241,156	19,107	204,005	15,145	2,898
Year 2018					
January	23,568	2,389	19,205	1,673	301
February	22,069	2,186	17,993	1,576	314
March	23,672	2,377	19,280	1,692	324
April	22,281	2,159	18,159	1,633	330
May	22,748	2,125	18,722	1,609	291
June	21,854	1,777	18,189	1,607	281
July	22,507	1,817	18,773	1,651	266
August	23,061	1,739	19,377	1,696	249
Sept	20,472	1,604	17,004	1,643	222
October	22,360	1,779	18,634	1,687	259
November	22,405	1,812	18,708	1,630	255
December	23,237	1,815	19,468	1,695	259
Year 2019					
January	20,524	1,599	17,016	1,651	259
February	18,832	1,462	15,686	1,448	237
March	21,461	1,750	17,858	1,578	275
April	19,036	1,540	16,347	902	247
May	19,116	1,596	16,802	503	214
June	19,846	1,544	17,003	1,084	216
July	20,607	1,593	17,528	1,277	209
August	20,901	1,621	17,778	1,280	223
Sept	19,765	1,592	16,684	1,266	224
October	20,270	1,605	17,015	1,386	264
November	19,995	1,576	16,752	1,408	258
December	20,803	1,629	17,537	1,364	273
Year 2020					
January	20,771	1,641	17,491	1,361	278
February	19,269	1,556	16,106	1,349	259
March	20,895	1,747	17,464	1,431	253
April	19,656	1,626	16,622	1,203	205
Year to Date					
2018	91,591	9,111	74,638	6,574	1,269
2019	79,853	6,351	66,906	5,578	1,018
2020	80,592	6,570	67,682	5,343	996
Rolling 12 Months Ending in April					
2019	258,497	20,820	215,781	18,795	3,101
2020	241,894	19,327	204,781	14,910	2,877

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
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Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2010-April 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	3,940	2	1,948	1,099	891
2018	3,621	0	1,867	911	843
2019	3,646	0	1,993	820	833
Year 2018					
January	321	0	176	68	77
February	320	0	165	79	77
March	340	0	175	82	83
April	335	0	164	85	86
May	285	0	140	71	74
June	259	0	146	46	68
July	278	0	139	76	64
August	302	0	157	82	63
Sept	290	0	150	82	58
October	334	0	170	95	69
November	276	0	134	73	68
December	280	0	152	71	57
Year 2019					
January	377	0	222	84	71
February	347	0	217	67	62
March	391	0	233	80	78
April	366	0	186	102	77
May	214	0	79	64	71
June	242	0	108	77	57
July	259	0	144	42	73
August	240	0	103	73	64
Sept	240	0	102	74	64
October	335	0	184	77	74
November	343	0	208	59	76
December	292	0	207	21	65
Year 2020					
January	351	0	237	36	78
February	373	0	233	65	74
March	305	0	161	73	71
April	194	0	60	70	64
Year to Date					
2018	1,316	0	680	314	322
2019	1,481	0	859	333	289
2020	1,222	0	690	244	288
Rolling 12 Months Ending in April					
2019	3,785	0	2,046	929	810
2020	3,387	0	1,824	731	832

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
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Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-April 2020 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	282,051	25,076	230,998	21,220	4,757
2018	273,856	23,580	225,380	20,701	4,196
2019	244,801	19,107	205,998	15,965	3,731
Year 2018					
January	23,890	2,389	19,382	1,741	378
February	22,390	2,186	18,158	1,655	390
March	24,012	2,377	19,455	1,774	407
April	22,616	2,159	18,323	1,718	416
May	23,033	2,125	18,862	1,680	366
June	22,113	1,777	18,335	1,652	349
July	22,785	1,817	18,912	1,726	330
August	23,363	1,739	19,534	1,778	313
Sept	20,763	1,604	17,154	1,725	280
October	22,694	1,779	18,804	1,783	328
November	22,681	1,812	18,842	1,703	324
December	23,516	1,815	19,620	1,766	316
Year 2019					
January	20,901	1,599	17,238	1,734	330
February	19,180	1,462	15,903	1,515	299
March	21,852	1,750	18,091	1,658	353
April	19,401	1,540	16,533	1,004	324
May	19,329	1,596	16,881	567	285
June	20,089	1,544	17,112	1,161	272
July	20,866	1,593	17,672	1,319	282
August	21,141	1,621	17,881	1,353	287
Sept	20,005	1,592	16,786	1,340	288
October	20,604	1,605	17,198	1,463	337
November	20,338	1,576	16,961	1,467	334
December	21,095	1,629	17,744	1,384	338
Year 2020					
January	21,123	1,641	17,728	1,397	356
February	19,642	1,556	16,339	1,414	334
March	21,200	1,747	17,624	1,503	325
April	19,850	1,626	16,681	1,273	270
Year to Date					
2018	92,907	9,111	75,318	6,888	1,591
2019	81,334	6,351	67,766	5,911	1,307
2020	81,814	6,570	68,372	5,587	1,284
Rolling 12 Months Ending in April					
2019	262,282	20,820	217,827	19,724	3,911
2020	245,281	19,327	206,605	15,641	3,708

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

Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2010-April 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	16,348	422	13,381	2,537	8
2018	16,783	467	13,859	2,448	9
2019	15,333	297	12,821	2,204	10
Year 2018					
January	1,370	28	1,147	195	0
February	1,297	26	1,090	180	1
March	1,398	40	1,153	204	1
April	1,356	38	1,117	200	1
May	1,419	43	1,158	217	1
June	1,476	42	1,218	214	1
July	1,479	48	1,224	207	1
August	1,483	47	1,220	215	1
Sept	1,334	36	1,097	199	1
October	1,387	43	1,140	205	0
November	1,369	39	1,127	202	0
December	1,416	37	1,169	210	0
Year 2019					
January	1,299	30	1,078	191	1
February	1,138	20	948	169	1
March	1,238	20	1,037	180	1
April	1,223	28	1,008	186	1
May	1,324	26	1,107	189	1
June	1,307	25	1,092	190	1
July	1,345	27	1,132	185	1
August	1,372	29	1,152	190	1
Sept	1,265	21	1,061	182	1
October	1,251	28	1,045	177	1
November	1,254	25	1,056	173	1
December	1,317	20	1,105	191	1
Year 2020					
January	1,287	19	1,079	188	1
February	1,183	14	1,002	166	1
March	1,309	26	1,096	186	1
April	1,227	25	1,049	152	1
Year to Date					
2018	5,420	131	4,507	779	3
2019	4,898	97	4,072	726	3
2020	5,005	84	4,225	692	4
Rolling 12 Months Ending in April					
2019	16,261	433	13,424	2,396	9
2020	15,441	285	12,975	2,170	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, 2010-April 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	2,124	0	814	1,102	208
2018	2,050	0	752	1,109	189
2019	1,576	0	743	646	187
Year 2018					
January	182	0	64	102	17
February	163	0	60	91	12
March	169	0	64	93	12
April	160	0	54	90	16
May	176	0	59	101	16
June	177	0	65	95	18
July	180	0	65	98	17
August	183	0	66	95	21
Sept	144	0	58	68	17
October	160	0	61	83	16
November	173	0	66	93	14
December	182	0	70	100	13
Year 2019					
January	164	0	66	83	15
February	149	0	63	70	15
March	147	0	67	64	16
April	109	0	56	37	17
May	120	0	64	45	12
June	129	0	64	50	15
July	128	0	67	45	16
August	130	0	62	47	21
Sept	117	0	53	48	15
October	122	0	57	50	15
November	131	0	63	53	15
December	131	0	61	55	15
Year 2020					
January	139	0	73	53	13
February	133	0	69	47	16
March	131	0	62	54	15
April	131	0	61	54	16
Year to Date					
2018	674	0	242	375	57
2019	568	0	252	254	63
2020	534	0	266	208	61
Rolling 12 Months Ending in April					
2019	1,944	0	762	987	195
2020	1,542	0	756	601	185

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
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Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-April 2020 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	18,473	422	14,195	3,639	216
2018	18,833	467	14,611	3,557	197
2019	16,909	297	13,564	2,850	197
Year 2018					
January	1,552	28	1,211	296	17
February	1,459	26	1,150	271	13
March	1,567	40	1,217	297	13
April	1,516	38	1,171	290	17
May	1,595	43	1,217	319	17
June	1,653	42	1,283	309	19
July	1,659	48	1,288	305	18
August	1,666	47	1,286	311	22
Sept	1,478	36	1,156	268	18
October	1,547	43	1,201	288	16
November	1,542	39	1,193	295	14
December	1,598	37	1,238	310	13
Year 2019					
January	1,463	30	1,144	273	16
February	1,286	20	1,011	239	16
March	1,385	20	1,105	244	17
April	1,332	28	1,063	223	18
May	1,444	26	1,171	234	13
June	1,436	25	1,156	241	15
July	1,473	27	1,199	229	17
August	1,503	29	1,215	238	22
Sept	1,382	21	1,114	230	16
October	1,373	28	1,101	227	16
November	1,385	25	1,119	226	15
December	1,448	20	1,166	246	16
Year 2020					
January	1,426	19	1,152	240	14
February	1,316	14	1,071	214	17
March	1,439	26	1,158	240	16
April	1,359	25	1,110	206	17
Year to Date					
2018	6,094	131	4,749	1,154	60
2019	5,466	97	4,323	980	66
2020	5,540	84	4,491	900	64
Rolling 12 Months Ending in April					
2019	18,205	433	14,185	3,383	204
2020	16,983	285	13,732	2,771	195

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Table 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2010-April 2020 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	363,646	42,806	151,877	460	168,503
2018	361,703	45,856	143,288	520	172,039
2019	345,524	43,977	135,117	583	165,847
Year 2018					
January	33,136	4,713	13,790	63	14,571
February	28,906	3,689	12,141	42	13,033
March	31,435	4,501	12,243	36	14,655
April	26,860	2,966	10,597	16	13,280
May	29,530	3,196	11,683	32	14,619
June	31,205	3,909	12,733	53	14,509
July	33,490	4,670	13,260	59	15,501
August	32,186	4,427	12,624	69	15,067
Sept	28,704	3,340	11,278	52	14,034
October	27,972	3,376	10,642	27	13,927
November	28,539	3,741	10,733	20	14,044
December	29,741	3,326	11,563	51	14,801
Year 2019					
January	31,376	4,520	12,600	52	14,204
February	27,246	3,766	10,416	57	13,007
March	28,118	3,557	10,504	72	13,984
April	26,183	3,119	9,726	24	13,314
May	29,824	4,146	11,947	18	13,712
June	28,468	3,285	11,228	31	13,923
July	30,855	4,378	11,756	101	14,620
August	33,338	4,707	13,628	63	14,940
Sept	28,678	3,644	11,785	51	13,199
October	25,957	2,745	10,123	42	13,047
November	25,825	2,218	10,029	35	13,543
December	29,656	3,892	11,374	37	14,353
Year 2020					
January	28,475	3,424	10,667	48	14,337
February	27,208	3,194	10,869	41	13,104
March	27,129	2,818	10,317	32	13,963
April	24,640	2,310	9,052	8	13,270
Year to Date					
2018	120,337	15,870	48,771	157	55,538
2019	112,923	14,962	43,246	205	54,509
2020	107,453	11,746	40,905	128	54,673
Rolling 12 Months Ending in April					
2019	354,289	44,948	137,763	568	171,010
2020	340,054	40,761	132,776	506	166,012

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Table 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2010-April 2020 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	939,633	11,656	22,986	4,522	900,469
2018	929,365	10,297	21,623	4,806	892,639
2019	970,743	10,663	21,629	4,969	933,482
Year 2018					
January	81,175	844	2,115	454	77,762
February	73,007	878	2,141	474	69,514
March	78,989	948	1,966	493	75,583
April	73,967	869	1,533	339	71,225
May	77,198	673	1,679	319	74,528
June	75,544	655	1,683	402	72,805
July	80,237	991	1,899	382	76,964
August	79,868	854	1,930	417	76,667
Sept	73,254	655	1,676	336	70,587
October	76,266	1,005	1,607	329	73,326
November	76,373	891	1,635	343	73,503
December	83,486	1,033	1,759	518	80,175
Year 2019					
January	88,362	1,038	1,789	544	84,991
February	79,866	874	1,544	478	76,970
March	81,029	961	1,656	436	77,976
April	79,775	906	1,927	344	76,597
May	80,246	997	1,870	356	77,023
June	78,568	874	1,970	342	75,382
July	80,830	865	1,949	403	77,613
August	83,650	900	1,946	398	80,406
Sept	77,203	914	1,882	394	74,013
October	77,961	743	1,535	423	75,260
November	80,344	756	1,650	442	77,497
December	82,909	834	1,912	410	79,754
Year 2020					
January	76,322	805	2,074	484	72,959
February	70,708	859	1,874	454	67,521
March	71,551	839	1,934	353	68,425
April	71,126	684	1,623	238	68,581
Year to Date					
2018	307,138	3,539	7,756	1,760	294,084
2019	329,031	3,780	6,916	1,801	316,535
2020	289,708	3,187	7,506	1,529	277,486
Rolling 12 Months Ending in April					
2019	951,258	10,538	20,783	4,848	915,090
2020	931,420	10,071	22,219	4,697	894,433

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Table 2.7.C. Wood / Wood Waste Biomass: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-April 2020 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
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	1,303,279	54,462	174,862	4,982	1,068,972
2018	1,291,068	56,153	164,911	5,326	1,064,678
2019	1,316,268	54,641	156,746	5,552	1,099,329
Year 2018					
January	114,312	5,557	15,905	517	92,333
February	101,913	4,567	14,282	516	82,547
March	110,425	5,449	14,209	528	90,238
April	100,826	3,835	12,131	356	84,505
May	106,728	3,869	13,362	351	89,146
June	106,749	4,564	14,416	455	87,314
July	113,727	5,661	15,160	441	92,465
August	112,054	5,281	14,554	486	91,733
Sept	101,958	3,995	12,954	388	84,621
October	104,238	4,381	12,248	356	87,253
November	104,912	4,633	12,368	363	87,548
December	113,227	4,360	13,322	569	94,976
Year 2019					
January	119,738	5,558	14,389	596	99,195
February	107,112	4,640	11,960	535	89,977
March	109,147	4,518	12,160	508	91,960
April	105,958	4,025	11,653	368	89,912
May	110,071	5,144	13,818	374	90,735
June	107,036	4,159	13,198	373	89,306
July	111,684	5,243	13,705	505	92,232
August	116,988	5,608	15,574	461	95,346
Sept	105,881	4,558	13,666	446	87,212
October	103,918	3,488	11,658	464	88,307
November	106,170	2,974	11,679	477	91,040
December	112,565	4,726	13,286	447	94,107
Year 2020					
January	104,797	4,229	12,741	532	87,295
February	97,917	4,053	12,744	495	80,625
March	98,681	3,657	12,251	385	82,388
April	95,766	2,994	10,675	246	81,851
Year to Date					
2018	427,475	19,409	56,527	1,917	349,622
2019	441,954	18,742	50,162	2,007	371,044
2020	397,161	14,933	48,411	1,657	332,159
Rolling 12 Months Ending in April					
2019	1,305,547	55,485	158,546	5,416	1,086,100
2020	1,271,474	50,832	154,995	5,202	1,060,445

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Values for 2018 and prior years are final. Values for 2019 and 2020 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 2.8.A. Consumption of Coal for Electricity Generation by State, by Sector, April 2020 and April 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	1	2	-54.0%	0	0	1	1	0	0	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	1	2	-49.0%	0	0	1	1	0	0	NM	NM
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	-100.0%	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	938	1,690	-44.0%	0	0	938	1,687	0	0	1	4
New Jersey	34	34	0.5%	0	0	34	34	0	0	0	0
New York	0	5	-100.0%	0	0	0	5	0	0	0	0
Pennsylvania	904	1,651	-45.0%	0	0	903	1,647	0	0	1	4
East North Central	4,340	8,060	-46.0%	2,612	5,093	1,677	2,911	0	2	51	54
Illinois	819	1,890	-57.0%	9	96	770	1,754	0	1	41	39
Indiana	1,467	2,656	-45.0%	1,298	2,500	169	154	0	1	0	0
Michigan	532	1,469	-64.0%	516	1,457	15	10	0	0	1	3
Ohio	798	1,072	-26.0%	75	79	723	993	0	0	0	0
Wisconsin	723	973	-26.0%	714	961	0	0	0	0	9	12
West North Central	4,932	5,998	-18.0%	4,873	5,927	0	0	0	1	59	70
Iowa	328	493	-33.0%	295	452	0	0	0	1	33	39
Kansas	577	414	39.0%	577	414	0	0	0	0	0	0
Minnesota	268	640	-58.0%	264	625	0	0	0	0	4	15
Missouri	1,568	2,222	-29.0%	1,568	2,222	0	0	0	0	0	0
Nebraska	730	822	-11.0%	711	809	0	0	0	0	19	13
North Dakota	1,367	1,269	7.7%	1,365	1,266	0	0	0	0	3	3
South Dakota	93	139	-33.0%	93	139	0	0	0	0	0	0
South Atlantic	2,440	4,166	-41.0%	2,338	3,792	88	361	1	1	14	13
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	393	564	-30.0%	392	563	0	0	0	0	NM	NM
Georgia	229	977	-77.0%	225	974	0	0	0	0	NM	2
Maryland	46	51	-11.0%	0	0	46	50	0	0	0	1
North Carolina	300	635	-53.0%	295	629	3	3	1	1	2	2
South Carolina	229	379	-40.0%	228	379	0	0	0	0	0	0
Virginia	77	80	-4.4%	71	73	0	2	0	0	6	6
West Virginia	1,167	1,481	-21.0%	1,128	1,175	NM	306	0	0	0	0
East South Central	1,871	3,353	-44.0%	1,619	3,046	245	298	0	0	7	9
Alabama	508	785	-35.0%	506	784	0	0	0	0	NM	1
Kentucky	1,025	1,415	-28.0%	1,025	1,415	0	0	0	0	0	0
Mississippi	245	483	-49.0%	0	185	245	298	0	0	0	0
Tennessee	92	670	-86.0%	87	661	0	0	0	0	5	8
West South Central	4,673	5,152	-9.3%	1,811	2,452	2,856	2,698	0	0	6	3
Arkansas	441	459	-3.9%	409	444	32	15	0	0	1	1
Louisiana	133	248	-46.0%	125	167	8	81	0	0	0	0
Oklahoma	172	304	-43.0%	109	302	58	0	0	0	5	2
Texas	3,927	4,141	-5.2%	1,169	1,540	2,758	2,601	0	0	0	0
Mountain	4,314	4,762	-9.4%	3,638	4,155	668	600	0	0	8	7
Arizona	340	699	-51.0%	340	699	0	0	0	0	0	0
Colorado	859	949	-9.5%	859	949	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	568	524	8.4%	19	26	549	498	0	0	NM	NM
Nevada	40	54	-27.0%	0	11	39	43	0	0	0	0
New Mexico	426	483	-12.0%	426	483	0	0	0	0	0	0
Utah	613	634	-3.3%	576	615	37	19	0	0	0	0
Wyoming	1,468	1,419	3.5%	1,417	1,371	43	41	0	0	8	7
Pacific Contiguous	5	159	-97.0%	0	0	0	153	0	0	5	6
California	4	5	-14.0%	0	0	0	0	0	0	4	5
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	154	-100.0%	0	0	0	153	0	0	0	1
Pacific Noncontiguous	103	90	15.0%	NM	NM	71	72	3	2	0	0
Alaska	44	28	61.0%	NM	NM	12	NM	3	2	0	0
Hawaii	59	62	-5.6%	0	0	59	62	0	0	0	0
U.S. Total	23,617	33,432	-29.0%	16,922	24,481	6,542	8,781	4	6	150	165

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 April 2020 and April 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	28	128	-79.0%	22	75	4	51	0	0	NM	2
Connecticut	0	46	-100.0%	0	0	0	46	0	0	0	0
Maine	6	7	-25.0%	0	0	4	6	0	0	NM	2
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	22	75	-71.0%	22	75	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	4,757	8,028	-41.0%	0	0	4,753	8,015	0	0	4	13
New Jersey	138	154	-11.0%	0	0	138	154	0	0	0	0
New York	64	147	-57.0%	0	0	64	147	0	0	0	0
Pennsylvania	4,556	7,727	-41.0%	0	0	4,551	7,714	0	0	4	13
East North Central	25,283	41,917	-40.0%	15,157	24,812	9,906	16,867	3	7	217	231
Illinois	4,827	10,914	-56.0%	290	707	4,364	10,034	2	4	172	168
Indiana	6,781	11,383	-40.0%	6,045	10,731	734	649	2	3	0	0
Michigan	4,239	7,532	-44.0%	4,168	7,480	66	43	0	0	4	9
Ohio	5,347	6,901	-23.0%	606	760	4,741	6,141	0	0	0	0
Wisconsin	4,088	5,188	-21.0%	4,048	5,134	0	0	0	0	41	54
West North Central	27,326	35,082	-22.0%	27,016	34,749	0	0	5	8	305	325
Iowa	2,133	4,485	-52.0%	1,976	4,326	0	0	4	6	153	153
Kansas	2,876	3,637	-21.0%	2,876	3,637	0	0	0	0	0	0
Minnesota	2,196	3,554	-38.0%	2,181	3,493	0	0	0	0	15	61
Missouri	8,986	11,321	-21.0%	8,986	11,320	0	0	1	1	0	0
Nebraska	3,855	4,496	-14.0%	3,729	4,396	0	0	0	0	126	100
North Dakota	6,863	6,948	-1.2%	6,852	6,937	0	0	0	0	11	11
South Dakota	417	640	-35.0%	417	640	0	0	0	0	0	0
South Atlantic	11,883	19,572	-39.0%	10,754	17,218	1,074	2,286	3	6	51	61
Delaware	0	25	-100.0%	0	0	0	25	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,524	2,504	-39.0%	1,521	2,499	0	0	0	0	3	5
Georgia	1,082	3,643	-70.0%	1,069	3,630	0	0	0	0	13	13
Maryland	188	697	-73.0%	0	0	188	691	0	0	0	6
North Carolina	1,555	2,753	-44.0%	1,531	2,715	11	24	3	6	9	9
South Carolina	1,308	1,836	-29.0%	1,307	1,835	0	0	0	0	1	1
Virginia	425	514	-17.0%	395	445	5	41	0	1	25	27
West Virginia	5,801	7,598	-24.0%	4,932	6,094	870	1,505	0	0	0	0
East South Central	11,953	16,570	-28.0%	10,909	15,599	1,011	933	0	0	33	38
Alabama	3,131	4,472	-30.0%	3,129	4,467	0	0	0	0	NM	5
Kentucky	6,266	8,258	-24.0%	6,266	8,258	0	0	0	0	0	0
Mississippi	1,186	1,307	-9.2%	175	374	1,011	933	0	0	0	0
Tennessee	1,370	2,532	-46.0%	1,339	2,499	0	0	0	0	30	33
West South Central	18,130	27,974	-35.0%	7,486	14,836	10,620	13,109	0	0	24	29
Arkansas	2,327	4,100	-43.0%	1,788	3,521	537	575	0	0	2	3
Louisiana	469	1,587	-70.0%	409	949	60	638	0	0	0	0
Oklahoma	378	2,144	-82.0%	285	2,079	72	39	0	0	21	26
Texas	14,956	20,143	-26.0%	5,005	8,287	9,951	11,856	0	0	0	0
Mountain	20,257	26,652	-24.0%	17,477	22,913	2,745	3,707	0	0	34	32
Arizona	1,879	4,200	-55.0%	1,879	4,200	0	0	0	0	0	0
Colorado	3,998	4,852	-18.0%	3,998	4,851	0	0	0	0	0	1
Idaho	1	1	-3.3%	0	0	0	0	0	0	1	1
Montana	2,402	3,292	-27.0%	73	103	2,328	3,188	0	0	2	1
Nevada	251	558	-55.0%	54	341	198	217	0	0	0	0
New Mexico	2,270	2,370	-4.2%	2,270	2,370	0	0	0	0	0	0
Utah	3,067	3,909	-22.0%	3,012	3,778	55	131	0	0	0	0
Wyoming	6,388	7,470	-14.0%	6,192	7,271	165	171	0	0	31	28
Pacific Contiguous	1,189	2,023	-41.0%	370	483	797	1,517	0	0	22	23
California	19	20	-7.0%	0	0	0	0	0	0	19	20
Oregon	370	483	-23.0%	370	483	0	0	0	0	0	0
Washington	800	1,520	-47.0%	0	0	797	1,517	0	0	3	3
Pacific Noncontiguous	398	411	-3.3%	124	130	262	270	12	11	0	0
Alaska	183	184	-0.4%	124	130	47	43	12	11	0	0
Hawaii	215	227	-5.6%	0	0	215	227	0	0	0	0
U.S. Total	121,202	178,357	-32.0%	89,316	130,817	31,172	46,754	24	32	690	754

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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 2.9.A. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, April 2020 and April 2019 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	18	27	-34.0%	NM	NM	NM	18	2	2	1	1
Connecticut	NM	11	NM	1	NM	NM	NM	NM	NM	0	0
Maine	2	2	-21.0%	0	0	1	1	0	1	1	1
Massachusetts	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
New Hampshire	1	4	-73.0%	NM	3	NM	NM	1	1	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	NM	NM
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	21	75	-72.0%	NM	NM	NM	58	NM	NM	2	3
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	NM	26	NM	NM	NM	NM	NM	NM	NM	0	0
Pennsylvania	NM	43	NM	0	0	NM	40	NM	1	2	2
East North Central	40	75	-47.0%	24	40	16	34	NM	NM	0	1
Illinois	3	8	-69.0%	NM	NM	2	7	NM	NM	0	0
Indiana	8	13	-39.0%	8	13	0	0	0	0	0	0
Michigan	8	13	-36.0%	8	12	0	0	NM	0	0	0
Ohio	16	32	-51.0%	2	6	14	26	0	0	0	0
Wisconsin	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
West North Central	47	40	17.0%	46	39	NM	NM	NM	0	0	0
Iowa	10	7	46.0%	10	6	NM	1	0	0	0	0
Kansas	14	10	38.0%	14	10	0	0	0	0	0	0
Minnesota	NM	NM	NM	NM	NM	NM	NM	NM	0	0	0
Missouri	12	12	-1.8%	12	12	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	4	2	140.0%	4	2	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	86	144	-40.0%	63	109	12	18	7	8	4	8
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	25	47	-48.0%	23	46	1	1	0	0	NM	1
Georgia	5	15	-66.0%	2	9	NM	NM	NM	0	2	5
Maryland	5	7	-35.0%	NM	0	4	7	0	0	0	0
North Carolina	10	28	-64.0%	NM	26	NM	NM	NM	NM	NM	1
South Carolina	10	8	32.0%	9	7	1	0	0	0	0	1
Virginia	14	22	-35.0%	NM	NM	3	6	6	8	NM	1
West Virginia	15	14	11.0%	15	14	0	0	0	0	0	0
East South Central	12	39	-70.0%	11	38	NM	NM	0	0	1	1
Alabama	NM	2	NM	1	1	NM	NM	0	0	NM	1
Kentucky	7	12	-43.0%	7	12	0	0	0	0	0	0
Mississippi	1	4	-82.0%	1	4	0	0	0	0	0	0
Tennessee	3	21	-85.0%	3	21	0	0	0	0	0	0
West South Central	18	25	-29.0%	11	19	6	5	0	0	0	1
Arkansas	10	6	73.0%	6	5	4	0	0	0	0	0
Louisiana	NM	2	NM	NM	2	0	0	0	0	0	0
Oklahoma	NM	3	NM	NM	2	0	0	0	0	0	0
Texas	7	14	-49.0%	5	9	2	5	0	0	0	0
Mountain	28	35	-19.0%	28	34	NM	1	NM	NM	0	0
Arizona	4	15	-70.0%	4	15	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Nevada	0	1	-86.0%	0	1	0	0	0	0	0	0
New Mexico	5	NM	NM	5	NM	0	0	0	0	0	0
Utah	10	10	-5.9%	10	10	0	1	0	0	0	0
Wyoming	7	2	284.0%	7	2	0	0	0	0	0	0
Pacific Contiguous	6	15	-63.0%	4	6	0	1	NM	NM	NM	8
California	5	14	-67.0%	4	6	0	1	NM	0	NM	7
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	NM	1	NM	NM	NM	NM	1	0	0	NM	1
Pacific Noncontiguous	873	922	-5.3%	679	685	173	212	2	2	19	23
Alaska	153	117	31.0%	148	111	0	0	NM	1	4	5
Hawaii	721	806	-11.0%	530	574	173	212	2	1	15	18
U.S. Total	1,149	1,397	-18.0%	872	988	236	348	12	15	29	46

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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 2.9.B. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, Year-to-Date through April 2020 and April 2019 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	118	222	-47.0%	12	26	94	174	9	16	3	6
Connecticut	52	81	-36.0%	3	3	49	74	NM	3	0	2
Maine	12	13	-0.9%	0	0	9	7	1	2	2	3
Massachusetts	34	90	-62.0%	NM	NM	27	77	NM	3	0	1
New Hampshire	9	21	-58.0%	3	13	NM	NM	5	6	0	0
Rhode Island	NM	16	NM	0	0	NM	NM	0	1	NM	NM
Vermont	1	NM	NM	1	NM	0	0	0	0	0	0
Middle Atlantic	289	860	-66.0%	57	280	218	555	NM	NM	8	17
New Jersey	39	80	-51.0%	0	3	39	77	0	0	0	0
New York	163	563	-71.0%	57	277	101	271	NM	NM	2	9
Pennsylvania	87	217	-60.0%	0	0	79	207	NM	2	6	8
East North Central	242	313	-23.0%	162	174	78	131	0	2	1	6
Illinois	17	29	-41.0%	3	NM	14	25	NM	NM	0	0
Indiana	71	80	-12.0%	70	77	0	0	0	0	1	3
Michigan	53	57	-6.4%	53	55	0	0	0	1	0	1
Ohio	70	114	-39.0%	8	12	61	101	0	0	0	2
Wisconsin	NM	34	NM	NM	28	3	5	NM	1	0	0
West North Central	198	249	-20.0%	194	239	NM	NM	0	1	0	1
Iowa	35	44	-22.0%	33	42	2	2	0	0	0	0
Kansas	64	36	79.0%	64	36	0	0	0	0	0	0
Minnesota	NM	30	NM	NM	21	NM	NM	0	1	0	1
Missouri	40	86	-53.0%	40	86	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	23	33	-30.0%	23	33	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	482	803	-40.0%	353	559	71	184	35	29	22	31
Delaware	NM	38	NM	0	0	NM	37	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	84	128	-34.0%	78	121	2	2	0	0	4	5
Georgia	36	70	-49.0%	23	44	NM	9	1	1	10	16
Maryland	36	80	-55.0%	1	2	35	77	0	0	0	1
North Carolina	80	178	-55.0%	73	169	3	NM	NM	NM	3	3
South Carolina	43	63	-32.0%	40	57	1	2	0	NM	2	4
Virginia	86	185	-53.0%	34	105	14	50	34	28	4	2
West Virginia	103	61	69.0%	103	60	0	1	0	0	0	0
East South Central	109	185	-41.0%	106	179	1	2	0	0	2	5
Alabama	3	13	-72.0%	2	8	1	2	0	0	1	3
Kentucky	41	57	-29.0%	41	57	0	0	0	0	0	0
Mississippi	5	11	-57.0%	4	11	0	0	0	0	1	1
Tennessee	60	104	-42.0%	59	102	0	0	0	0	1	2
West South Central	64	80	-21.0%	44	57	18	19	0	0	1	3
Arkansas	27	27	0.8%	22	18	5	8	0	0	0	1
Louisiana	3	5	-49.0%	3	5	0	0	0	0	0	0
Oklahoma	4	13	-67.0%	4	12	0	0	0	0	0	1
Texas	30	35	-17.0%	16	23	13	11	0	0	1	1
Mountain	111	137	-19.0%	107	129	4	8	NM	NM	0	0
Arizona	23	44	-49.0%	23	44	0	0	NM	NM	0	0
Colorado	NM	12	NM	NM	12	0	0	0	0	0	0
Idaho	0	0	121.0%	0	0	0	0	0	0	0	0
Montana	NM	9	NM	NM	NM	3	6	0	0	0	0
Nevada	4	7	-47.0%	3	6	1	1	0	0	0	0
New Mexico	26	23	13.0%	26	23	0	0	0	0	0	0
Utah	23	24	-4.1%	22	23	1	1	0	0	0	0
Wyoming	27	18	48.0%	27	18	0	0	0	0	0	0
Pacific Contiguous	41	44	-8.0%	27	24	10	7	NM	NM	4	13
California	27	35	-22.0%	21	21	5	3	0	0	1	10
Oregon	NM	NM	NM	2	2	0	0	NM	NM	0	0
Washington	12	8	54.0%	NM	NM	4	4	0	0	3	3
Pacific Noncontiguous	3,933	3,786	3.9%	3,257	3,017	577	671	12	10	88	88
Alaska	622	514	21.0%	597	490	0	0	3	4	22	20
Hawaii	3,311	3,272	1.2%	2,660	2,526	577	671	9	6	66	69
U.S. Total	5,586	6,680	-16.0%	4,319	4,683	1,074	1,759	62	67	130	170

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

Table 2.10.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, April 2020 and April 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
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	NM	NM	0	0	0	0	0	0	0	NM
New Jersey	0	1	-100.0%	0	0	0	0	0	0	0	1
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	NM	NM	0	0	0	0	0	0	0	NM
East North Central	50	51	-2.2%	17	0	30	45	0	0	3	6
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	20	6	260.0%	17	0	0	0	0	0	3	6
Ohio	30	45	-34.0%	0	0	30	45	0	0	0	0
Wisconsin	0	0	-100.0%	0	0	0	0	0	0	0	0
West North Central	0	0	-100.0%	0	0	0	0	0	0	0	0
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	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	31	36	-13.0%	29	34	0	0	0	0	NM	2
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	29	34	-15.0%	29	34	0	0	0	0	0	0
Georgia	NM	2	NM	0	0	0	0	0	0	NM	2
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	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	136	79	72.0%	133	73	0	0	0	0	3	6
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	133	73	82.0%	133	73	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3	6	-49.0%	0	0	0	0	0	0	3	6
Mountain	13	15	-14.0%	0	0	13	15	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	13	15	-14.0%	0	0	13	15	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	230	182	26.0%	179	107	43	60	0	0	8	15

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

Table 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, Year-to-Date through April 2020 and April 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 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	2	6	-70.0%	0	0	0	0	0	0	2	6
New Jersey	2	2	-22.0%	0	0	0	0	0	0	2	2
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	4	-100.0%	0	0	0	0	0	0	0	4
East North Central	252	331	-24.0%	118	148	115	166	0	0	20	17
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	125	153	-18.0%	105	136	0	0	0	0	20	17
Ohio	115	166	-31.0%	0	0	115	166	0	0	0	0
Wisconsin	13	12	2.2%	13	12	0	0	0	0	0	0
West North Central	3	1	169.0%	0	0	0	0	1	1	3	0
Iowa	3	1	169.0%	0	0	0	0	1	1	3	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	190	172	9.9%	179	162	0	0	0	0	11	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	179	162	10.0%	179	162	0	0	0	0	0	0
Georgia	11	10	3.7%	0	0	0	0	0	0	11	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	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	457	490	-6.6%	443	471	0	0	0	0	14	19
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	443	472	-6.1%	443	471	0	0	0	0	0	1
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	14	18	-20.0%	0	0	0	0	0	0	14	18
Mountain	58	60	-2.9%	0	0	58	60	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	58	60	-2.9%	0	0	58	60	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	962	1,060	-9.3%	740	781	173	226	1	1	49	53

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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, April 2020 and April 2019 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	22,750	24,521	-7.2%	NM	NM	21,745	23,440	333	366	632	617
Connecticut	11,777	11,198	5.2%	24	28	11,383	10,785	123	145	247	241
Maine	663	442	50.0%	0	0	448	NM	12	12	203	165
Massachusetts	4,539	7,119	-36.0%	NM	NM	4,257	6,759	176	187	91	105
New Hampshire	1,709	1,896	-9.9%	0	1	1,698	1,875	3	4	8	16
Rhode Island	4,061	3,864	5.1%	0	0	3,959	3,757	18	16	NM	NM
Vermont	1	2	-68.0%	1	1	0	0	0	1	0	0
Middle Atlantic	83,171	81,261	2.4%	5,773	6,059	76,098	73,711	433	518	868	972
New Jersey	13,995	21,998	-36.0%	NM	NM	13,754	21,668	NM	66	134	140
New York	20,667	23,843	-13.0%	5,700	5,935	14,310	17,195	365	398	293	314
Pennsylvania	48,509	35,419	37.0%	0	0	48,034	34,847	34	54	441	518
East North Central	82,629	84,198	-1.9%	29,719	31,913	50,197	49,640	501	613	2,212	2,032
Illinois	9,906	10,955	-9.6%	1,288	1,133	8,297	9,392	149	152	172	279
Indiana	16,223	14,891	8.9%	7,369	7,246	7,705	6,519	40	80	1,108	1,046
Michigan	17,778	19,057	-6.7%	5,219	7,237	11,977	11,284	235	265	347	271
Ohio	26,584	27,250	-2.4%	4,680	5,717	21,741	21,394	43	58	119	81
Wisconsin	12,139	12,044	0.8%	11,162	10,579	476	1,051	33	58	467	356
West North Central	13,598	15,193	-10.0%	11,257	13,688	1,821	1,128	133	141	387	235
Iowa	2,591	2,839	-8.8%	2,364	2,643	0	NM	38	45	189	145
Kansas	1,642	1,555	5.6%	1,531	1,533	0	0	0	0	110	22
Minnesota	4,004	5,169	-23.0%	3,189	4,531	738	554	30	34	48	50
Missouri	3,138	3,896	-19.0%	1,980	3,259	1,083	567	63	61	11	8
Nebraska	NM	NM	NM	NM	NM	0	0	2	0	0	0
North Dakota	1,080	785	38.0%	1,051	774	0	0	0	0	29	10
South Dakota	NM	NM	NM	NM	NM	0	0	0	0	0	0
South Atlantic	211,493	200,208	5.6%	172,294	161,594	35,865	35,268	830	984	2,503	2,362
Delaware	2,522	2,276	11.0%	1	1	2,008	1,805	0	0	513	471
District of Columbia	0	31	-100.0%	0	0	0	0	0	31	0	0
Florida	107,727	101,740	5.9%	103,116	97,134	3,930	3,938	10	11	672	658
Georgia	26,897	29,875	-10.0%	18,228	21,860	8,319	7,704	0	0	350	311
Maryland	7,995	7,601	5.2%	1,792	1,271	5,439	5,436	743	858	21	36
North Carolina	15,652	20,465	-24.0%	11,596	17,142	3,911	3,188	NM	74	74	60
South Carolina	14,835	12,636	17.0%	14,551	11,686	206	879	0	0	79	72
Virginia	34,479	24,775	39.0%	23,004	12,386	10,808	11,754	6	9	661	625
West Virginia	1,385	807	72.0%	5	113	1,245	564	0	0	134	130
East South Central	62,584	63,336	-1.2%	49,091	42,805	12,228	19,294	76	74	1,188	1,163
Alabama	21,258	26,731	-20.0%	8,559	9,298	12,162	16,834	0	0	537	598
Kentucky	6,624	6,404	3.4%	6,489	6,247	51	91	0	0	85	66
Mississippi	28,271	25,111	13.0%	28,087	22,558	4	2,360	0	0	179	194
Tennessee	6,431	5,091	26.0%	5,956	4,702	12	10	76	74	387	305
West South Central	185,446	180,483	2.7%	74,442	70,259	81,809	78,363	323	333	28,872	31,528
Arkansas	6,556	9,466	-31.0%	5,864	8,668	575	641	NM	NM	88	124
Louisiana	39,275	42,053	-6.6%	26,003	26,179	2,042	2,787	67	63	11,163	13,024
Oklahoma	21,109	20,433	3.3%	14,473	14,307	6,320	5,933	0	0	316	194
Texas	118,507	108,531	9.2%	28,102	21,105	72,872	69,002	227	238	17,305	18,186
Mountain	62,448	60,184	3.8%	50,166	46,679	11,135	12,403	169	186	978	916
Arizona	25,230	25,799	-2.2%	20,388	19,271	4,793	6,482	49	46	0	0
Colorado	10,878	8,581	27.0%	9,122	7,282	1,725	1,270	0	0	30	29
Idaho	1,312	1,266	3.6%	NM	NM	NM	891	14	14	49	43
Montana	304	248	23.0%	288	NM	NM	34	0	0	NM	NM
Nevada	13,266	12,107	9.6%	11,929	10,856	1,183	1,104	16	24	138	123
New Mexico	7,512	7,530	-0.2%	5,022	4,907	2,454	2,579	NM	41	0	4
Utah	3,321	4,199	-21.0%	2,880	3,691	43	45	54	60	344	404
Wyoming	625	453	38.0%	208	140	1	0	0	0	415	313
Pacific Contiguous	53,867	43,640	23.0%	21,168	17,535	26,281	20,005	727	823	5,690	5,277
California	34,032	30,393	12.0%	10,222	10,126	17,820	14,272	702	797	5,289	5,197
Oregon	11,226	8,311	35.0%	5,089	4,409	6,042	3,845	20	19	75	38
Washington	8,608	4,937	74.0%	5,858	3,000	2,420	1,888	5	7	326	41
Pacific Noncontiguous	2,134	2,078	2.7%	2,109	2,055	0	0	0	0	26	23
Alaska	2,134	2,078	2.7%	2,109	2,055	0	0	0	0	26	23
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	780,120	755,102	3.3%	416,058	392,685	317,179	313,252	3,526	4,039	43,357	45,126

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Table 2.11.B. Consumption of Nautral Gas for Electricity Generation by State, by Sector, Year-to-Date through April 2020 and April 2019 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	106,512	105,376	1.1%	NM	NM	101,411	100,700	1,778	1,742	3,070	2,649
Connecticut	50,508	43,683	16.0%	87	115	48,457	41,765	688	689	1,277	1,114
Maine	2,524	3,300	-24.0%	0	0	1,763	2,704	51	48	711	548
Massachusetts	29,142	37,586	-22.0%	NM	NM	27,457	36,035	964	928	563	466
New Hampshire	6,510	5,360	21.0%	3	7	6,439	5,275	11	17	57	61
Rhode Island	17,822	15,439	15.0%	0	0	17,296	14,921	63	57	463	461
Vermont	6	8	-27.0%	4	5	0	0	1	3	0	0
Middle Atlantic	419,464	375,651	12.0%	25,562	25,857	386,937	342,648	2,328	2,442	4,637	4,704
New Jersey	63,685	82,526	-23.0%	NM	NM	62,385	81,253	239	251	723	666
New York	110,814	106,139	4.4%	25,223	25,490	82,328	77,349	1,901	1,947	1,361	1,354
Pennsylvania	244,965	186,986	31.0%	1	12	242,223	184,046	188	245	2,553	2,683
East North Central	394,460	343,497	15.0%	147,404	121,362	235,042	210,410	2,519	2,525	9,495	9,200
Illinois	48,904	38,533	27.0%	7,244	2,008	39,715	34,643	678	622	1,267	1,260
Indiana	75,650	69,056	9.5%	33,109	29,362	37,628	34,587	279	279	4,633	4,828
Michigan	89,921	74,147	21.0%	33,893	24,586	53,646	47,252	1,067	1,103	1,314	1,206
Ohio	123,408	116,223	6.2%	21,424	23,899	101,276	91,609	298	322	410	393
Wisconsin	56,577	45,538	24.0%	51,733	41,508	2,777	2,319	197	199	1,870	1,512
West North Central	70,324	61,277	15.0%	57,885	52,646	10,308	6,815	541	553	1,590	1,264
Iowa	14,179	13,874	2.2%	13,253	12,955	0	NM	162	159	764	740
Kansas	7,286	5,403	35.0%	6,803	5,195	0	0	0	0	483	208
Minnesota	21,221	20,628	2.9%	17,837	18,109	3,024	2,090	153	197	207	232
Missouri	16,552	14,406	15.0%	8,999	9,467	7,284	4,705	214	189	55	45
Nebraska	2,938	1,809	62.0%	2,925	1,801	0	0	12	8	0	0
North Dakota	4,540	3,067	48.0%	4,459	3,026	0	0	0	0	81	40
South Dakota	3,609	2,092	73.0%	3,609	2,092	0	0	0	0	0	0
South Atlantic	891,103	806,737	10.0%	736,179	669,677	141,011	123,772	3,428	3,811	10,485	9,477
Delaware	8,238	8,399	-1.9%	5	7	6,238	6,589	0	0	1,995	1,803
District of Columbia	148	210	-29.0%	0	0	0	0	148	210	0	0
Florida	412,664	373,360	11.0%	392,356	358,413	17,453	12,249	42	40	2,813	2,657
Georgia	123,190	114,343	7.7%	93,261	88,576	28,464	24,572	0	0	1,465	1,195
Maryland	34,555	35,271	-2.0%	7,861	10,489	23,774	21,422	2,851	3,215	69	145
North Carolina	101,243	97,473	3.9%	82,508	79,808	18,075	17,082	348	314	312	270
South Carolina	57,963	48,370	20.0%	56,500	45,834	1,082	2,259	0	0	381	276
Virginia	149,034	126,939	17.0%	103,653	85,983	42,639	38,440	39	33	2,703	2,483
West Virginia	4,069	2,373	71.0%	36	568	3,286	1,158	0	0	747	647
East South Central	293,212	280,261	4.6%	213,841	190,845	74,080	84,243	370	333	4,921	4,840
Alabama	109,713	114,187	-3.9%	37,462	40,713	69,865	71,045	0	0	2,385	2,429
Kentucky	26,956	31,230	-14.0%	26,280	29,695	331	1,214	0	0	345	321
Mississippi	120,290	99,813	21.0%	115,713	87,119	3,829	11,936	0	0	748	758
Tennessee	36,254	35,031	3.5%	34,386	33,319	54	48	370	333	1,443	1,332
West South Central	822,361	749,362	9.7%	330,997	283,185	356,934	335,801	1,504	1,582	132,925	128,795
Arkansas	36,913	40,524	-8.9%	33,954	37,314	2,443	2,515	NM	NM	380	560
Louisiana	162,619	151,003	7.7%	104,798	88,950	6,923	8,417	276	243	50,621	53,392
Oklahoma	106,305	88,547	20.0%	69,209	57,894	35,865	29,598	0	0	1,232	1,056
Texas	516,524	469,289	10.0%	123,037	99,027	311,703	295,271	1,092	1,205	80,692	73,787
Mountain	269,889	246,210	9.6%	215,381	194,358	49,556	46,848	731	760	4,220	4,244
Arizona	99,243	90,222	10.0%	75,409	70,554	23,644	19,469	190	199	0	0
Colorado	45,743	38,695	18.0%	38,569	31,778	7,023	6,796	27	7	124	115
Idaho	10,346	8,323	24.0%	5,470	3,700	4,591	4,374	59	54	227	195
Montana	1,384	1,758	-21.0%	1,219	1,123	154	625	0	0	11	9
Nevada	57,780	52,561	9.9%	52,279	47,034	4,698	4,668	77	89	726	771
New Mexico	32,308	29,624	9.1%	22,769	18,715	9,265	10,735	153	170	121	4
Utah	20,059	22,930	-13.0%	18,384	20,726	173	176	226	240	1,277	1,787
Wyoming	3,026	2,097	44.0%	1,283	728	9	6	0	0	1,734	1,363
Pacific Contiguous	256,884	246,869	4.1%	108,833	99,036	123,105	123,059	3,095	3,269	21,852	21,504
California	171,220	174,762	-2.0%	58,576	61,191	88,587	89,231	2,997	3,168	21,060	21,172
Oregon	51,799	47,434	9.2%	25,763	22,369	25,695	24,827	81	73	261	164
Washington	33,864	24,673	37.0%	24,494	15,476	8,823	9,001	17	28	531	168
Pacific Noncontiguous	10,549	9,416	12.0%	10,464	9,314	0	0	0	0	85	102
Alaska	10,549	9,416	12.0%	10,464	9,314	0	0	0	0	85	102
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,534,759	3,224,656	9.6%	1,846,799	1,646,565	1,478,385	1,374,295	16,295	17,017	193,280	186,779

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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, April 2020 and April 2019 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	852	744	15.0%	0	0	837	721	15	23	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	298	279	6.8%	0	0	298	279	0	0	0	0
New Hampshire	81	87	-7.0%	0	0	66	64	15	23	0	0
Rhode Island	391	297	32.0%	0	0	391	297	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	3,595	3,722	-3.4%	0	0	3,516	3,570	9	NM	69	102
New Jersey	354	560	-37.0%	0	0	351	545	4	NM	0	0
New York	1,232	1,202	2.5%	0	0	1,232	1,202	0	0	0	0
Pennsylvania	2,009	1,960	2.5%	0	0	1,934	1,823	6	NM	69	102
East North Central	4,785	4,845	-1.2%	735	711	3,994	4,088	33	24	22	23
Illinois	823	797	3.3%	197	190	625	606	0	0	0	0
Indiana	637	612	4.2%	538	520	100	91	0	0	0	0
Michigan	1,630	1,655	-1.5%	0	0	1,630	1,655	0	0	0	0
Ohio	889	946	-6.1%	0	0	889	946	0	0	0	0
Wisconsin	806	836	-3.6%	0	0	750	789	33	24	22	23
West North Central	740	712	3.9%	234	234	506	478	0	0	0	0
Iowa	207	199	4.4%	0	0	207	199	0	0	0	0
Kansas	117	110	6.8%	0	0	117	110	0	0	0	0
Minnesota	163	152	6.9%	NM	NM	111	104	0	0	0	0
Missouri	132	124	6.9%	NM	NM	NM	66	0	0	0	0
Nebraska	121	128	-5.6%	121	128	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	3,870	3,820	1.3%	365	314	3,345	3,288	NM	NM	114	122
Delaware	86	81	6.8%	0	0	NM	72	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	799	745	7.3%	174	139	625	606	0	0	0	0
Georgia	497	553	-10.0%	0	0	484	544	0	0	13	9
Maryland	154	183	-15.0%	0	0	124	116	NM	NM	0	0
North Carolina	844	808	4.5%	0	0	839	793	NM	NM	0	0
South Carolina	305	303	0.6%	185	173	NM	NM	0	0	93	NM
Virginia	1,185	1,148	3.2%	6	2	1,167	1,131	NM	NM	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	404	383	5.6%	168	163	237	220	0	0	0	0
Alabama	NM	NM	NM	0	0	NM	NM	0	0	0	0
Kentucky	188	180	4.2%	168	163	20	18	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	135	126	6.8%	0	0	135	126	0	0	0	0
West South Central	864	909	-4.9%	0	0	864	884	0	25	0	0
Arkansas	88	83	6.8%	0	0	88	83	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	739	792	-6.7%	0	0	739	767	0	25	0	0
Mountain	446	402	11.0%	NM	NM	376	376	49	5	0	0
Arizona	NM	66	NM	0	0	NM	66	0	0	0	0
Colorado	NM	74	NM	0	0	NM	74	0	0	0	0
Idaho	46	NM	NM	NM	NM	NM	NM	18	3	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	119	111	6.9%	0	0	119	111	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	122	112	9.1%	0	0	92	110	31	2	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,036	3,443	17.0%	103	99	2,947	2,721	986	622	0	0
California	3,537	2,943	20.0%	NM	NM	2,567	2,343	963	594	0	0
Oregon	407	414	-1.6%	96	93	288	293	NM	NM	0	0
Washington	92	86	6.8%	0	0	92	86	0	0	0	0
Pacific Noncontiguous	64	57	12.0%	0	0	0	0	64	57	0	0
Alaska	64	57	12.0%	0	0	0	0	64	57	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	19,656	19,036	3.3%	1,626	1,540	16,622	16,347	1,203	902	205	247

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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 April 2020 and April 2019 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	3,458	3,152	9.7%	0	0	3,395	3,063	63	88	0	0
Connecticut	67	NM	NM	0	0	67	NM	0	0	0	0
Maine	202	194	3.8%	0	0	202	194	0	0	0	0
Massachusetts	1,215	1,160	4.7%	0	0	1,215	1,160	0	0	0	0
New Hampshire	330	349	-5.3%	0	0	268	260	63	88	0	0
Rhode Island	1,570	1,301	21.0%	0	0	1,570	1,301	0	0	0	0
Vermont	75	NM	NM	0	0	75	NM	0	0	0	0
Middle Atlantic	15,061	15,361	-2.0%	0	0	14,578	14,796	138	199	345	367
New Jersey	1,700	2,264	-25.0%	0	0	1,655	2,205	NM	NM	0	0
New York	5,036	4,882	3.2%	0	0	5,036	4,882	0	0	0	0
Pennsylvania	8,325	8,215	1.3%	0	0	7,888	7,709	NM	139	345	367
East North Central	19,186	19,290	-0.5%	2,988	2,924	15,989	16,143	119	134	89	90
Illinois	3,360	3,232	4.0%	805	778	2,555	2,454	0	0	0	0
Indiana	2,560	2,514	1.8%	2,183	2,145	377	369	0	0	0	0
Michigan	6,561	6,529	0.5%	0	0	6,561	6,529	0	0	0	0
Ohio	3,329	3,705	-10.0%	0	0	3,329	3,705	0	0	0	0
Wisconsin	3,375	3,310	2.0%	0	0	3,167	3,086	119	134	89	90
West North Central	2,999	2,860	4.8%	960	977	2,039	1,883	0	0	0	0
Iowa	823	727	13.0%	0	0	823	727	0	0	0	0
Kansas	477	453	5.3%	0	0	477	453	0	0	0	0
Minnesota	665	641	3.7%	212	212	453	429	0	0	0	0
Missouri	541	530	2.1%	254	256	287	274	0	0	0	0
Nebraska	493	509	-3.2%	493	509	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	15,887	15,534	2.3%	1,370	1,303	13,684	13,230	272	439	562	561
Delaware	351	340	3.3%	0	0	315	304	0	0	NM	36
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,148	3,022	4.2%	593	540	2,555	2,481	0	0	0	0
Georgia	2,097	2,136	-1.8%	0	0	2,042	2,099	0	0	55	36
Maryland	664	797	-17.0%	0	0	508	487	157	310	0	0
North Carolina	3,399	3,281	3.6%	0	0	3,350	3,219	NM	NM	0	0
South Carolina	1,340	1,337	0.2%	756	741	112	108	0	0	471	489
Virginia	4,887	4,622	5.7%	20	22	4,802	4,533	NM	NM	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	1,633	1,570	4.0%	686	661	947	909	0	0	0	0
Alabama	253	242	4.6%	0	0	253	242	0	0	0	0
Kentucky	751	728	3.1%	686	661	65	68	0	0	0	0
Mississippi	79	NM	NM	0	0	79	NM	0	0	0	0
Tennessee	550	524	4.9%	0	0	550	524	0	0	0	0
West South Central	3,475	3,783	-8.1%	0	0	3,475	3,594	0	189	0	0
Arkansas	360	344	4.7%	0	0	360	344	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	148	141	5.0%	0	0	148	141	0	0	0	0
Texas	2,967	3,298	-10.0%	0	0	2,967	3,109	0	189	0	0
Mountain	1,789	1,842	-2.9%	86	83	1,534	1,626	169	133	0	0
Arizona	285	272	5.1%	0	0	285	272	0	0	0	0
Colorado	323	307	5.2%	0	0	323	307	0	0	0	0
Idaho	173	155	12.0%	86	83	NM	NM	57	40	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	486	468	3.9%	0	0	486	468	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	485	603	-20.0%	0	0	373	511	112	92	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	16,851	16,230	3.8%	482	403	12,040	11,662	4,330	4,166	0	0
California	14,693	14,208	3.4%	80	NM	10,408	10,142	4,205	4,038	0	0
Oregon	1,785	1,666	7.1%	401	376	1,258	1,163	125	128	0	0
Washington	373	357	4.5%	0	0	373	357	0	0	0	0
Pacific Noncontiguous	253	230	9.7%	0	0	0	0	253	230	0	0
Alaska	253	230	9.7%	0	0	0	0	253	230	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	80,592	79,853	0.9%	6,570	6,351	67,682	66,906	5,343	5,578	996	1,018

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

Table 2.13.A. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, April 2020 and April 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	265	279	-5.0%	0	0	257	267	8	12	0	0
Connecticut	92	101	-8.1%	0	0	92	101	0	0	0	0
Maine	16	20	-18.0%	0	0	8	8	8	12	0	0
Massachusetts	147	149	-1.3%	0	0	147	149	0	0	0	0
New Hampshire	10	10	-3.9%	0	0	10	10	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	394	398	-0.9%	0	0	328	308	66	91	0	0
New Jersey	105	104	1.1%	0	0	77	76	27	28	0	0
New York	154	136	13.0%	0	0	115	96	39	40	0	0
Pennsylvania	136	158	-14.0%	0	0	136	136	0	22	0	0
East North Central	14	13	7.2%	3	3	0	0	11	10	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	2	1	52.0%	0	0	0	0	2	1	0	0
Michigan	9	8	5.2%	0	0	0	0	9	8	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-5.5%	3	3	0	0	0	0	0	0
West North Central	40	31	30.0%	22	25	18	6	NM	NM	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	40	31	30.0%	22	25	18	6	NM	NM	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	425	405	5.0%	0	0	389	368	36	37	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	293	268	9.5%	0	0	293	268	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	40	50	-20.0%	0	0	40	50	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	92	87	5.7%	0	0	56	50	36	37	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	-12.0%	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	-12.0%	0	0	0	0	0	0	1	1
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	57	59	-2.8%	0	0	57	59	0	0	0	0
California	36	36	0.1%	0	0	36	36	0	0	0	0
Oregon	9	9	-2.4%	0	0	9	9	0	0	0	0
Washington	12	14	-11.0%	0	0	12	14	0	0	0	0
Pacific Noncontiguous	31	37	-17.0%	0	0	0	0	31	37	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	31	37	-17.0%	0	0	0	0	31	37	0	0
U.S. Total	1,227	1,223	0.4%	25	28	1,049	1,008	152	186	1	1

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

Table 2.13.B. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, Year-to-Date through April 2020 and April 2019 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	1,071	1,067	0.4%	0	0	1,029	1,014	42	53	0	0
Connecticut	365	354	3.1%	0	0	365	354	0	0	0	0
Maine	77	88	-13.0%	0	0	34	35	42	53	0	0
Massachusetts	591	585	1.1%	0	0	591	585	0	0	0	0
New Hampshire	38	40	-4.1%	0	0	38	40	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	1,643	1,584	3.7%	0	0	1,316	1,249	328	335	0	0
New Jersey	430	413	4.1%	0	0	317	305	113	108	0	0
New York	608	561	8.3%	0	0	457	414	150	147	0	0
Pennsylvania	606	610	-0.7%	0	0	541	530	65	80	0	0
East North Central	54	65	-17.0%	11	11	0	0	43	54	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	7	6	21.0%	0	0	0	0	7	6	0	0
Michigan	36	48	-25.0%	0	0	0	0	36	48	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	11	11	-0.8%	11	11	0	0	0	0	0	0
West North Central	150	140	7.5%	73	86	77	54	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	150	140	7.5%	73	86	77	54	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,713	1,671	2.5%	0	0	1,577	1,533	136	137	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	1,187	1,110	7.0%	0	0	1,187	1,110	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	148	192	-23.0%	0	0	148	192	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	378	369	2.3%	0	0	242	232	136	137	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	3	7.7%	0	0	0	0	0	0	4	3
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	4	3	7.7%	0	0	0	0	0	0	4	3
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	227	221	2.7%	0	0	227	221	0	0	0	0
California	139	132	5.4%	0	0	139	132	0	0	0	0
Oregon	38	38	1.1%	0	0	38	38	0	0	0	0
Washington	50	51	-3.4%	0	0	50	51	0	0	0	0
Pacific Noncontiguous	143	147	-2.5%	0	0	0	0	143	147	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	143	147	-2.5%	0	0	0	0	143	147	0	0
U.S. Total	5,005	4,898	2.2%	84	97	4,225	4,072	692	726	4	3

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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 2.14.A. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, April 2020 and April 2019 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	2,489	3,407	-27.0%	71	390	1,977	2,579	1	0	441	438
Connecticut	178	221	-19.0%	0	0	178	221	0	0	0	0
Maine	1,064	1,438	-26.0%	0	0	622	999	0	0	441	438
Massachusetts	NM	160	NM	0	0	NM	160	0	0	0	0
New Hampshire	860	1,240	-31.0%	0	217	860	1,023	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	234	348	-33.0%	71	172	163	175	1	0	0	0
Middle Atlantic	669	588	14.0%	0	0	431	320	0	0	238	268
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	493	392	26.0%	0	0	431	320	0	0	62	73
Pennsylvania	176	195	-9.9%	0	0	0	0	0	0	176	195
East North Central	1,428	1,668	-14.0%	220	250	634	828	0	0	575	589
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	899	1,108	-19.0%	0	0	633	817	0	0	266	291
Ohio	96	88	9.7%	0	0	1	11	0	0	95	76
Wisconsin	433	472	-8.2%	220	250	0	0	0	0	213	222
West North Central	397	382	4.1%	59	72	116	115	1	18	221	177
Iowa	1	6	-89.0%	0	0	0	0	1	6	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	397	364	9.1%	59	72	116	115	0	0	221	177
Missouri	0	12	-100.0%	0	0	0	0	0	12	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	9,523	9,479	0.5%	1,622	2,034	2,544	2,256	6	5	5,351	5,184
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	1,416	1,560	-9.3%	515	669	NM	146	0	0	759	746
Georgia	3,171	2,748	15.0%	0	0	1,082	726	0	0	2,090	2,022
Maryland	6	63	-90.0%	0	0	0	0	6	5	0	57
North Carolina	1,280	1,252	2.2%	0	0	708	709	0	0	571	543
South Carolina	1,314	1,330	-1.2%	113	159	395	409	0	0	806	762
Virginia	2,336	2,526	-7.5%	995	1,206	217	266	0	0	1,124	1,054
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,893	2,937	-1.5%	0	0	0	121	0	0	2,893	2,816
Alabama	1,924	1,854	3.8%	0	0	0	121	0	0	1,924	1,733
Kentucky	135	133	2.2%	0	0	0	0	0	0	135	133
Mississippi	542	550	-1.5%	0	0	0	0	0	0	542	550
Tennessee	291	401	-27.0%	0	0	0	0	0	0	291	401
West South Central	1,797	2,013	-11.0%	0	0	0	0	0	0	1,797	2,013
Arkansas	353	579	-39.0%	0	0	0	0	0	0	353	579
Louisiana	942	995	-5.4%	0	0	0	0	0	0	942	995
Oklahoma	157	92	71.0%	0	0	0	0	0	0	157	92
Texas	346	347	-0.4%	0	0	0	0	0	0	346	347
Mountain	525	526	-0.2%	0	0	359	371	0	0	166	155
Arizona	225	239	-5.7%	0	0	225	239	0	0	0	0
Colorado	112	114	-1.8%	0	0	112	114	0	0	0	0
Idaho	167	154	8.0%	0	0	21	18	0	0	145	136
Montana	21	19	12.0%	0	0	0	0	0	0	21	19
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,919	5,183	-5.1%	338	373	2,992	3,136	0	0	1,588	1,674
California	3,384	3,590	-5.7%	0	0	2,822	2,926	0	0	562	663
Oregon	569	609	-6.7%	0	0	NM	210	0	0	398	400
Washington	966	984	-1.9%	338	373	0	0	0	0	628	611
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	24,640	26,183	-5.9%	2,310	3,119	9,052	9,726	8	24	13,270	13,314

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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 2.14.B. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, Year-to-Date through April 2020 and April 2019 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	12,489	16,130	-23.0%	1,277	2,553	9,380	11,790	4	3	1,828	1,783
Connecticut	874	1,029	-15.0%	0	0	874	1,029	0	0	0	0
Maine	4,883	6,434	-24.0%	0	0	3,055	4,650	0	0	1,828	1,783
Massachusetts	655	678	-3.5%	0	0	655	678	0	0	0	0
New Hampshire	4,340	6,041	-28.0%	259	1,371	4,081	4,670	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	1,737	1,947	-11.0%	1,017	1,183	716	761	4	3	0	0
Middle Atlantic	2,925	2,836	3.1%	0	0	1,844	1,726	0	0	1,081	1,110
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	2,144	2,049	4.6%	0	0	1,844	1,725	0	0	301	324
Pennsylvania	781	786	-0.7%	0	0	0	0	0	0	781	786
East North Central	6,755	7,846	-14.0%	1,167	1,439	3,264	3,971	0	0	2,324	2,436
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	4,304	5,160	-17.0%	0	0	3,238	3,923	0	0	1,066	1,237
Ohio	414	368	13.0%	0	0	26	48	0	0	388	320
Wisconsin	2,038	2,318	-12.0%	1,167	1,439	0	0	0	0	871	880
West North Central	1,834	1,891	-3.1%	285	337	476	465	80	160	992	930
Iowa	16	22	-28.0%	0	0	0	0	16	22	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	1,753	1,779	-1.5%	285	337	476	465	0	47	992	930
Missouri	65	90	-28.0%	0	0	0	0	65	90	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	40,505	39,599	2.3%	7,502	8,991	11,542	9,579	44	42	21,418	20,987
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5,633	6,658	-15.0%	2,107	2,741	601	1,056	0	0	2,925	2,861
Georgia	13,628	10,982	24.0%	0	0	5,103	2,698	0	0	8,525	8,284
Maryland	44	252	-83.0%	0	0	0	0	44	42	0	210
North Carolina	5,110	4,694	8.9%	0	0	2,875	2,618	0	0	2,235	2,076
South Carolina	5,538	5,751	-3.7%	494	656	1,908	1,976	0	0	3,135	3,119
Virginia	10,553	11,262	-6.3%	4,901	5,594	1,054	1,231	0	0	4,598	4,437
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	11,949	11,662	2.5%	0	0	0	498	0	0	11,949	11,164
Alabama	7,809	7,731	1.0%	0	0	0	498	0	0	7,809	7,233
Kentucky	547	492	11.0%	0	0	0	0	0	0	547	492
Mississippi	2,167	2,005	8.0%	0	0	0	0	0	0	2,167	2,005
Tennessee	1,426	1,435	-0.6%	0	0	0	0	0	0	1,426	1,435
West South Central	7,649	9,007	-15.0%	0	0	194	295	0	0	7,455	8,713
Arkansas	1,542	2,325	-34.0%	0	0	0	0	0	0	1,542	2,325
Louisiana	3,852	4,412	-13.0%	0	0	0	0	0	0	3,852	4,412
Oklahoma	624	526	19.0%	0	0	0	0	0	0	624	526
Texas	1,632	1,745	-6.5%	0	0	194	295	0	0	1,438	1,450
Mountain	2,172	2,119	2.5%	0	0	1,525	1,527	0	0	647	592
Arizona	978	1,027	-4.7%	0	0	978	1,027	0	0	0	0
Colorado	452	414	9.0%	0	0	452	414	0	0	0	0
Idaho	659	597	10.0%	0	0	96	86	0	0	564	511
Montana	83	80	3.6%	0	0	0	0	0	0	83	80
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	21,174	21,832	-3.0%	1,515	1,642	12,681	13,397	0	0	6,978	6,792
California	14,602	15,218	-4.0%	0	0	11,850	12,423	0	0	2,752	2,795
Oregon	2,467	2,426	1.7%	0	0	831	974	0	0	1,637	1,451
Washington	4,105	4,188	-2.0%	1,515	1,642	0	0	0	0	2,590	2,546
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	107,453	112,923	-4.8%	11,746	14,962	40,905	43,246	128	205	54,673	54,509

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

Chapter 3

Fossil-Fuel Stocks for Electricity Generation

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2010 - April 2020

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroluem Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
2010	174,917	34,841	1,019	143,744	23,934	850	31,173	10,908	168
2011	172,387	33,742	508	142,103	24,544	404	30,284	9,198	104
2012	185,116	30,862	495	150,942	22,513	414	34,174	8,349	81
2013	147,884	30,387	390	120,792	21,208	303	27,092	9,179	86
2014	151,548	32,322	827	116,684	21,304	686	34,864	11,018	142
2015	195,548	31,694	1,340	153,226	20,253	1,163	42,322	11,441	177
2016	162,009	30,593	845	130,885	19,767	603	31,124	10,827	241
2017	137,687	28,089	864	114,782	19,047	692	22,905	9,041	171
2018	102,793	25,977	539	84,728	16,553	521	18,065	9,423	19
2019	128,497	25,976	443	104,344	16,642	429	24,153	9,333	14
Year 2018, End of Month Stocks									
January	123,235	25,853	720	103,761	17,653	579	19,474	8,200	141
February	120,526	26,831	692	101,532	18,213	561	18,994	8,618	131
March	126,008	26,763	736	106,377	18,301	612	19,631	8,462	124
April	128,571	26,608	731	107,870	18,236	647	20,701	8,372	84
May	127,982	26,794	709	107,176	18,315	648	20,806	8,479	61
June	121,041	26,494	591	101,498	17,964	526	19,544	8,530	65
July	110,348	25,912	668	93,099	17,412	614	17,249	8,500	53
August	103,744	24,815	625	87,944	16,602	580	15,800	8,213	45
Sept	100,384	24,595	608	84,696	16,378	557	15,688	8,217	51
October	104,855	24,591	541	87,394	16,183	511	17,461	8,409	30
November	104,075	24,720	557	86,252	16,114	540	17,823	8,606	16
December	102,793	25,977	539	84,728	16,553	521	18,065	9,423	19
Year 2019, End of Month Stocks									
January	99,378	26,026	528	81,756	16,685	518	17,622	9,341	9
February	98,835	26,270	506	81,339	16,923	495	17,497	9,347	11
March	97,102	26,266	498	79,627	17,016	482	17,475	9,250	16
April	108,852	26,382	510	88,960	17,155	501	19,891	9,227	10
May	115,888	26,453	445	93,643	17,229	435	22,245	9,224	10
June	117,710	26,217	389	94,364	17,016	382	23,346	9,202	7
July	110,933	25,850	355	89,638	16,750	348	21,295	9,100	8
August	110,560	25,160	381	89,229	16,231	373	21,331	8,929	8
Sept	110,952	25,374	293	89,877	16,438	282	21,075	8,935	11
October	119,045	25,294	283	96,515	16,414	277	22,530	8,881	6
November	123,033	25,550	425	99,827	16,490	408	23,207	9,060	17
December	128,497	25,976	443	104,344	16,642	429	24,153	9,333	14
Year 2020, End of Month Stocks									
January	134,402	25,340	521	108,369	16,375	518	26,033	8,965	2
February	139,558	25,203	615	112,442	16,308	599	27,116	8,895	16
March	145,451	25,392	537	116,736	16,402	523	28,715	8,990	14
April	151,998	25,350	537	122,308	16,301	521	29,690	9,049	17

Notes: See Glossary for definitions. Values for 2018 and prior years are final. Values for 2019 and 2020 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, April 2020 and 2019

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	April 2020	April 2019	Percentage Change	April 2020	April 2019	Percentage Change	April 2020	April 2019	Percentage Change
New England	W	467	W	3,273	3,426	-4.5%	0	0	--
Connecticut	W	W	W	1,167	1,206	-3.2%	0	0	--
Maine	0	0	--	209	290	-28.0%	0	0	--
Massachusetts	0	W	W	1,338	1,334	0.3%	0	0	--
New Hampshire	W	W	W	335	359	-6.7%	0	0	--
Rhode Island	0	W	W	201	196	2.5%	0	0	--
Vermont	0	0	--	24	41	-42.1%	0	0	--
Middle Atlantic	4,457	3,751	18.8%	5,057	5,236	-3.4%	0	0	--
New Jersey	W	W	W	711	649	9.5%	0	0	--
New York	0	W	W	3,071	3,254	-5.6%	0	0	--
Pennsylvania	W	3,581	W	1,274	1,332	-4.4%	0	0	--
East North Central	33,503	19,683	70.2%	1,073	1,082	-0.8%	W	93	W
Illinois	6,772	4,846	39.7%	69	73	-5.5%	0	0	--
Indiana	10,948	6,566	66.7%	121	89	36.9%	0	W	W
Michigan	4,797	2,470	94.2%	266	289	-7.7%	W	W	W
Ohio	7,517	3,336	125.3%	451	435	3.7%	0	0	--
Wisconsin	3,469	2,465	40.7%	166	198	-15.7%	W	W	W
West North Central	27,056	18,277	48.0%	742	841	-11.8%	0	0	--
Iowa	6,980	2,882	142.2%	89	131	-31.7%	0	0	--
Kansas	3,638	3,218	13.1%	117	114	2.7%	0	0	--
Minnesota	3,696	2,813	31.4%	74	97	-23.4%	0	0	--
Missouri	8,410	5,859	43.5%	307	334	-8.0%	0	0	--
Nebraska	2,863	2,056	39.3%	69	99	-30.7%	0	0	--
North Dakota	W	W	W	42	27	57.1%	0	0	--
South Dakota	W	W	W	43	40	9.3%	0	0	--
South Atlantic	27,415	22,355	22.6%	11,060	10,883	1.6%	W	W	W
Delaware	W	W	W	646	575	12.4%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	3,295	3,527	-6.6%	3,943	4,060	-2.9%	W	W	W
Georgia	6,314	4,612	36.9%	1,020	834	22.3%	0	0	--
Maryland	1,938	1,860	4.2%	655	685	-4.3%	0	0	--
North Carolina	5,214	4,333	20.3%	1,412	1,241	13.8%	0	0	--
South Carolina	2,958	2,366	25.0%	787	745	5.6%	0	0	--
Virginia	W	1,020	W	2,450	2,585	-5.2%	0	0	--
West Virginia	6,415	W	W	146	159	-7.7%	0	W	W
East South Central	14,038	10,706	31.1%	1,098	1,274	-13.8%	0	0	--
Alabama	3,174	W	W	212	212	-0.1%	0	0	--
Kentucky	7,187	5,893	22.0%	228	232	-1.9%	0	0	--
Mississippi	W	W	W	NM	36	NM	0	0	--
Tennessee	W	2,288	W	652	794	-17.8%	0	0	--
West South Central	23,928	16,589	44.2%	1,263	1,389	-9.1%	W	W	W
Arkansas	4,456	3,406	30.8%	190	175	8.4%	0	0	--
Louisiana	3,517	2,552	37.8%	169	225	-25.1%	W	W	W
Oklahoma	3,044	2,741	11.1%	107	95	11.9%	0	0	--
Texas	12,911	7,891	63.6%	798	893	-10.7%	0	0	--
Mountain	19,334	15,907	21.5%	375	358	4.6%	W	W	W
Arizona	4,180	3,403	22.8%	125	137	-8.9%	0	0	--
Colorado	3,794	3,989	-4.9%	115	121	-5.3%	0	0	--
Idaho	0	0	--	0	0	-50.3%	0	0	--
Montana	W	W	W	14	15	-6.0%	W	W	W
Nevada	W	W	W	4	3	29.2%	0	0	--
New Mexico	W	W	W	19	22	-12.8%	0	0	--
Utah	3,859	2,772	39.2%	53	34	55.7%	0	0	--
Wyoming	5,381	3,599	49.5%	45	26	72.1%	0	0	--
Pacific Contiguous	W	W	W	342	356	-4.0%	0	0	--
California	0	0	--	174	176	-1.3%	0	0	--
Oregon	W	W	W	73	78	-6.7%	0	0	--
Washington	W	W	W	95	102	-6.6%	0	0	--
Pacific Noncontiguous	W	W	W	1,069	1,537	-30.5%	0	0	--
Alaska	0	0	--	52	156	-66.7%	0	0	--
Hawaii	W	W	W	1,017	1,381	-26.4%	0	0	--
U.S. Total	151,998	108,852	39.6%	25,350	26,382	-3.9%	537	510	5.3%

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

Table 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Divison, April 2020 and 2019

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019
Coal (Thousand Tons)							
New England	W	467	W	W	W	W	W
Middle Atlantic	4,457	3,751	18.8%	W	0	W	3,751
East North Central	33,503	19,683	70.2%	20,615	12,665	12,888	7,018
West North Central	27,056	18,277	48.0%	27,056	18,277	0	0
South Atlantic	27,415	22,355	22.6%	24,560	19,612	2,855	2,743
East South Central	14,038	10,706	31.1%	14,038	10,706	0	0
West South Central	23,928	16,589	44.2%	16,466	12,104	7,462	4,485
Mountain	19,334	15,907	21.5%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	0	0	W	W
U.S. Total	**151,998**	**108,852**	**39.6%**	**122,308**	**88,960**	**29,690**	**19,891**
Petroleum Liquids (Thousand Barrels)							
New England	3,273	3,426	-4.5%	453	501	2,820	2,925
Middle Atlantic	5,057	5,236	-3.4%	2,002	2,065	3,054	3,170
East North Central	1,073	1,082	-0.8%	710	725	363	357
West North Central	742	841	-11.8%	720	815	21	26
South Atlantic	11,060	10,883	1.6%	8,762	8,710	2,298	2,173
East South Central	1,098	1,274	-13.8%	1,005	1,182	92	92
West South Central	1,263	1,389	-9.1%	1,012	1,055	251	334
Mountain	375	358	4.6%	346	331	29	28
Pacific Contiguous	342	356	-4.0%	261	275	81	80
Pacific Noncontiguous	1,069	1,537	-30.5%	1,030	1,495	38	42
U.S. Total	**25,350**	**26,382**	**-3.9%**	**16,301**	**17,155**	**9,049**	**9,227**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	W	93	W	W	93	0	0
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	W	W	0	W
East South Central	0	0	--	0	0	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	**537**	**510**	**5.3%**	**521**	**501**	**17**	**10**

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, 2010 - April 2020
(Thousand Tons)

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
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	56,140	77,875	3,672	137,687
2018	41,507	58,247	3,039	102,793
2019	55,103	69,988	3,124	128,497
Year 2018, End of Month Stocks				
January	47,910	72,251	3,074	123,235
February	47,658	69,960	2,909	120,526
March	49,027	73,768	3,213	126,008
April	50,499	74,747	3,324	128,571
May	51,393	73,377	3,212	127,982
June	48,411	69,439	3,191	121,041
July	44,487	63,014	2,847	110,348
August	42,359	58,570	2,816	103,744
Sept	40,384	57,155	2,845	100,384
October	42,588	59,252	3,016	104,855
November	42,392	58,575	3,108	104,075
December	41,507	58,247	3,039	102,793
Year 2019, End of Month Stocks				
January	40,184	56,311	2,883	99,378
February	41,501	54,596	2,738	98,835
March	44,493	49,383	3,054	97,102
April	49,163	56,333	3,344	108,852
May	52,191	60,281	3,023	115,888
June	54,298	60,523	2,551	117,710
July	50,265	57,646	2,670	110,933
August	49,818	58,009	2,409	110,560
Sept	49,070	59,148	2,395	110,952
October	51,780	64,308	2,590	119,045
November	52,799	66,935	2,959	123,033
December	55,103	69,988	3,124	128,497
Year 2020, End of Month Stocks				
January	56,268	74,560	3,307	134,402
February	57,374	78,705	3,235	139,558
March	59,838	81,734	3,624	145,451
April	61,845	85,920	3,947	151,998

Notes: See Glossary for definitions.
Values for 2018 and prior years are final. Values for 2019 and 2020 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.

Chapter 4

Receipts and Cost of Fossil Fuels

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2010 - April 2020

	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												
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	12,261,029	642,364	2.06	39.27	1.28	94.7	96,977	16,127	11.86	71.35	0.49	68.0
2018	11,371,117	596,215	2.06	39.25	1.31	91.7	134,069	22,290	14.42	86.80	0.42	71.4
2019	10,668,588	555,022	2.02	38.86	1.32	100.7	86,383	14,319	13.58	81.95	0.49	63.0
Year 2018												
January	955,176	50,541	2.06	39.01	1.24	76.3	35,958	6,008	14.02	84.17	0.47	59.1
February	852,358	44,837	2.07	39.27	1.27	95.2	12,093	1,993	12.79	77.72	0.47	122.2
March	941,236	48,946	2.04	39.20	1.34	107.0	7,979	1,331	13.56	81.30	0.42	80.5
April	816,396	42,555	2.07	39.66	1.33	102.3	6,902	1,141	13.90	84.04	0.41	65.7
May	892,542	46,186	2.04	39.50	1.38	95.5	9,619	1,591	14.40	87.12	0.34	79.2
June	930,650	48,563	2.04	39.14	1.36	85.0	9,287	1,546	14.96	89.81	0.33	75.2
July	989,524	52,065	2.05	38.98	1.29	80.2	7,532	1,244	14.74	89.24	0.33	65.2
August	1,076,062	56,499	2.06	39.16	1.31	87.2	7,016	1,163	15.41	92.94	0.38	57.8
Sept	943,820	49,892	2.05	38.76	1.25	90.8	7,903	1,316	15.42	92.57	0.38	66.0
October	1,000,010	52,357	2.04	39.05	1.36	106.0	9,389	1,556	15.77	95.13	0.42	77.7
November	954,234	50,315	2.06	39.02	1.32	95.2	8,917	1,494	15.87	94.65	0.46	73.7
December	1,019,110	53,461	2.11	40.25	1.30	94.0	11,474	1,908	13.96	83.90	0.47	94.1
Year 2019												
January	1,002,966	52,325	2.10	40.31	1.32	91.6	8,613	1,426	12.40	74.90	0.46	51.0
February	847,217	44,418	2.07	39.54	1.28	96.2	8,708	1,430	13.16	80.17	0.48	89.5
March	820,727	41,993	2.08	40.68	1.51	93.0	7,501	1,243	14.41	86.95	0.47	76.7
April	869,217	44,771	2.07	40.19	1.37	129.9	6,948	1,152	14.85	89.57	0.52	74.0
May	890,175	45,861	2.06	39.91	1.39	111.7	6,587	1,095	14.47	87.01	0.50	57.1
June	867,346	44,942	2.03	39.18	1.35	99.2	6,735	1,120	13.68	82.28	0.49	59.8
July	938,466	49,099	2.02	38.68	1.28	86.1	5,853	977	13.78	82.54	0.48	50.4
August	979,476	51,055	2.00	38.44	1.27	95.4	5,115	860	14.24	84.72	0.51	42.1
Sept	889,676	46,432	1.96	37.59	1.27	96.0	8,156	1,344	12.62	76.57	0.48	73.9
October	868,407	45,266	1.96	37.64	1.28	117.6	6,655	1,103	13.69	82.56	0.50	60.1
November	845,303	44,419	1.97	37.43	1.26	103.4	7,794	1,281	12.97	78.88	0.49	68.6
December	849,611	44,441	1.92	36.66	1.25	107.1	7,721	1,288	13.56	81.34	0.49	69.8
Year 2020												
January	815,873	43,036	1.94	36.84	1.25	114.0	5,340	895	13.87	82.79	0.53	48.4
February	692,242	36,724	1.91	35.98	1.27	111.4	6,581	1,090	13.06	78.84	0.49	71.6
March	659,206	34,712	1.94	36.78	1.33	116.3	6,734	1,115	10.48	63.27	0.51	77.0
April	562,898	30,023	1.93	36.18	1.25	122.9	4,196	709	8.50	50.35	0.52	56.4
Year to Date												
2018	3,565,165	186,879	2.06	39.27	1.29	93.1	62,932	10,472	13.71	82.52	0.45	68.9
2019	3,540,127	183,507	2.08	40.18	1.37	100.3	31,769	5,251	13.62	82.41	0.48	69.3
2020	2,730,220	144,496	1.93	36.47	1.27	115.6	22,851	3,809	11.66	69.99	0.51	62.7
Rolling 12 Months Ending in April												
2019	11,346,079	592,844	2.06	39.53	1.33	93.8	102,906	17,069	14.58	87.91	0.42	72.3
2020	9,858,681	516,011	1.97	37.72	1.29	104.6	77,465	12,877	13.00	78.20	0.50	60.7

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

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

- Values for 2018 and prior years are final. Values for 2019 and 2020 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), 2010 - April 2020 (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												
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	2.13	59.90	5.56	74.1	9,951,815	9,628,733	3.37	3.49	90.2	2.65
2018	85,122	3,010	2.54	71.76	5.74	66.1	11,244,158	10,885,764	3.55	3.67	90.4	2.83
2019	56,294	1,969	1.91	54.59	5.51	53.6	11,149,544	10,786,472	2.89	2.99	84.3	2.49
Year 2018												
January	7,009	248	2.38	67.41	5.31	53.2	836,690	809,817	5.06	5.23	88.7	3.59
February	7,769	277	2.43	68.09	5.49	72.4	734,114	711,064	3.61	3.73	88.7	2.82
March	7,841	281	2.54	70.89	5.54	86.2	805,795	779,565	3.18	3.29	89.3	2.59
April	6,564	232	2.56	72.38	6.09	65.5	758,992	735,470	3.14	3.24	90.2	2.61
May	4,344	152	2.41	68.58	6.09	54.2	894,444	866,280	3.06	3.16	89.9	2.59
June	7,382	260	2.73	77.61	5.97	62.9	1,014,537	982,204	3.13	3.23	91.7	2.64
July	8,307	293	2.71	76.81	5.73	65.3	1,272,002	1,231,687	3.23	3.34	91.1	2.73
August	8,443	298	2.79	78.94	5.67	69.4	1,243,191	1,203,931	3.28	3.38	91.6	2.72
Sept	8,158	288	2.94	83.35	5.63	72.2	1,093,336	1,057,918	3.12	3.22	91.9	2.65
October	5,892	208	2.48	70.32	5.77	68.1	951,711	921,416	3.43	3.55	91.4	2.76
November	6,696	235	2.21	63.10	5.87	68.6	817,552	791,716	4.18	4.31	89.3	3.05
December	6,718	238	2.03	57.24	5.90	59.0	821,793	794,697	4.72	4.89	89.4	3.29
Year 2019												
January	5,447	192	2.08	59.13	5.93	47.6	861,144	833,540	4.01	4.14	85.6	2.99
February	4,486	155	2.27	65.75	5.78	44.6	786,847	759,097	3.64	3.77	84.9	2.85
March	3,725	130	2.43	69.63	6.15	37.9	805,916	780,542	3.45	3.56	84.8	2.79
April	3,159	111	2.71	76.93	5.65	43.2	735,837	713,039	2.89	2.99	83.7	2.49
May	4,631	162	2.24	63.78	5.41	43.2	841,017	815,717	2.77	2.85	85.8	2.43
June	3,740	130	2.18	62.61	5.15	44.7	972,337	942,226	2.59	2.67	84.7	2.36
July	5,766	201	2.01	57.67	5.22	51.0	1,201,858	1,162,227	2.53	2.62	83.1	2.33
August	7,308	258	1.72	48.66	5.20	74.0	1,219,083	1,177,729	2.41	2.50	83.3	2.25
Sept	3,777	131	1.67	48.38	5.58	37.3	1,053,061	1,018,596	2.59	2.68	83.8	2.33
October	2,365	83	1.57	44.65	5.64	58.9	930,821	900,234	2.49	2.58	83.3	2.27
November	6,654	232	1.46	41.78	5.38	128.0	828,647	801,068	2.96	3.06	84.6	2.48
December	5,236	183	1.14	32.50	5.44	77.3	912,977	882,456	2.92	3.02	85.6	2.46
Year 2020												
January	8,421	295	1.53	43.68	5.34	81.3	935,177	903,553	2.62	2.72	84.8	2.33
February	6,913	244	1.47	41.75	4.99	109.8	887,032	857,646	2.40	2.48	85.2	2.22
March	4,942	174	1.36	38.61	5.46	55.4	875,795	846,496	2.14	2.22	84.2	2.09
April	5,150	180	1.38	39.50	5.35	68.3	773,646	746,039	2.10	2.18	84.8	2.04
Year to Date												
2018	29,182	1,038	2.48	69.65	5.60	67.9	3,135,591	3,035,916	3.78	3.90	89.2	2.92
2019	16,818	588	2.33	66.57	5.88	43.5	3,189,744	3,086,218	3.52	3.64	84.8	2.79
2020	25,426	893	1.45	41.32	5.27	76.8	3,471,650	3,353,735	2.33	2.41	84.8	2.18
Rolling 12 Months Ending in April												
2019	72,758	2,560	2.51	71.42	5.83	58.5	11,298,311	10,936,065	3.48	3.59	89.1	2.79
2020	64,902	2,274	1.62	46.28	5.32	65.3	11,431,450	11,053,990	2.54	2.63	84.3	2.31

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

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

- Values for 2018 and prior years are final. Values for 2019 and 2020 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2010 - April 2020

	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												
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	9,011,629	467,595	2.12	40.81	1.16	96.0	70,422	11,640	11.60	70.19	0.47	74.4
2018	8,351,036	435,964	2.11	40.35	1.18	91.6	84,050	13,896	14.39	87.09	0.37	75.3
2019	7,919,245	410,810	2.08	40.13	1.18	102.5	65,388	10,768	13.37	81.21	0.46	71.8
Year 2018												
January	689,121	36,230	2.08	39.57	1.11	75.5	16,449	2,762	14.38	85.73	0.43	61.0
February	637,294	33,294	2.10	40.18	1.17	97.3	8,657	1,413	12.58	77.10	0.46	126.0
March	696,264	36,224	2.09	40.20	1.18	111.4	5,472	906	13.38	80.86	0.36	82.4
April	600,033	31,096	2.12	40.93	1.23	101.8	5,321	875	13.78	83.81	0.36	74.7
May	654,477	33,757	2.09	40.57	1.24	95.3	6,739	1,108	14.37	87.44	0.29	82.5
June	689,040	35,857	2.10	40.33	1.21	84.0	6,566	1,085	14.63	88.49	0.28	78.5
July	738,864	38,675	2.10	40.13	1.15	79.8	5,620	920	14.34	87.60	0.27	75.5
August	802,045	41,889	2.11	40.43	1.19	87.2	5,016	826	15.26	92.68	0.34	63.6
Sept	695,648	36,530	2.12	40.31	1.15	90.3	5,665	940	15.53	93.63	0.35	66.8
October	713,410	37,228	2.10	40.20	1.21	104.3	6,170	1,011	15.78	96.34	0.39	73.6
November	691,145	36,346	2.10	39.90	1.17	95.3	5,383	896	15.89	95.50	0.41	69.8
December	743,694	38,838	2.17	41.48	1.17	93.2	6,991	1,155	13.83	83.69	0.44	94.7
Year 2019												
January	735,203	38,213	2.16	41.64	1.18	92.1	6,100	1,008	12.56	76.05	0.42	61.8
February	628,506	32,866	2.14	40.93	1.15	97.9	6,630	1,082	13.01	79.70	0.46	106.0
March	585,096	29,813	2.14	42.07	1.37	93.5	6,135	1,012	14.34	86.90	0.42	94.1
April	643,745	33,151	2.13	41.45	1.21	134.6	5,352	882	14.71	89.24	0.47	89.0
May	661,447	34,035	2.12	41.24	1.22	112.1	4,914	810	14.11	85.55	0.48	65.7
June	645,744	33,285	2.11	40.91	1.20	98.9	5,128	848	13.29	80.35	0.47	63.9
July	718,111	37,394	2.09	40.05	1.16	88.2	4,389	728	13.28	79.99	0.46	56.4
August	741,452	38,602	2.07	39.71	1.14	96.9	3,843	643	13.64	81.54	0.48	44.2
Sept	671,570	34,833	2.02	38.89	1.17	98.1	6,701	1,097	12.38	75.64	0.45	86.7
October	638,658	33,211	2.01	38.71	1.14	122.3	4,848	796	13.25	80.69	0.47	62.8
November	619,671	32,460	2.02	38.53	1.14	106.5	6,088	992	12.79	78.49	0.48	84.0
December	630,043	32,948	1.96	37.44	1.13	110.4	5,261	868	13.61	82.47	0.47	69.4
Year 2020												
January	601,630	31,626	1.98	37.67	1.12	115.6	4,454	744	13.67	81.86	0.48	53.5
February	511,753	27,042	1.95	36.81	1.12	113.9	5,670	937	12.88	77.92	0.46	83.7
March	490,792	25,781	1.97	37.47	1.14	118.6	5,191	855	10.36	62.92	0.47	90.0
April	430,845	22,438	1.98	37.97	1.18	131.8	2,574	432	8.46	50.40	0.47	49.2
Year to Date												
2018	2,622,712	136,844	2.10	40.19	1.17	94.2	35,900	5,956	13.70	82.62	0.42	75.2
2019	2,592,550	134,043	2.15	41.51	1.22	101.9	24,217	3,985	13.61	82.72	0.45	84.5
2020	2,035,019	106,887	1.97	37.47	1.14	118.9	17,889	2,967	11.71	70.58	0.47	68.4
Rolling 12 Months Ending in April												
2019	8,320,874	433,162	2.12	40.76	1.20	93.7	72,367	11,925	14.47	87.82	0.38	78.2
2020	7,361,714	383,654	2.03	38.90	1.16	106.8	59,060	9,750	12.77	77.36	0.47	66.8

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 2018 and prior years are final. Values for 2019 and 2020 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2010 - April 2020 (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												
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	4,794,383	4,640,827	3.62	3.74	96.8	2.68
2018	83,211	2,940	2.56	72.34	5.74	106.8	5,553,558	5,379,459	3.68	3.80	96.2	2.80
2019	54,266	1,896	1.92	54.88	5.50	91.0	5,436,200	5,262,798	3.06	3.16	87.6	2.53
Year 2018												
January	7,009	248	2.38	67.41	5.31	83.4	423,606	410,310	5.20	5.37	95.5	3.41
February	7,769	277	2.43	68.09	5.49	117.9	359,760	348,729	3.81	3.93	95.0	2.79
March	7,841	281	2.54	70.89	5.54	141.5	397,572	384,900	3.46	3.57	96.4	2.64
April	6,564	232	2.56	72.38	6.09	119.0	377,302	365,948	3.30	3.40	97.5	2.63
May	4,344	152	2.41	68.58	6.09	108.3	452,870	438,567	3.24	3.35	94.8	2.63
June	7,382	260	2.73	77.61	5.97	96.2	525,751	509,192	3.28	3.39	97.2	2.67
July	8,147	287	2.73	77.48	5.73	100.4	632,132	612,044	3.27	3.38	95.1	2.69
August	8,183	288	2.82	80.03	5.67	105.4	607,246	588,293	3.33	3.44	96.5	2.68
Sept	7,493	263	3.05	86.74	5.59	101.2	535,618	518,216	3.28	3.39	97.0	2.68
October	5,415	191	2.55	72.24	5.80	120.4	464,777	450,302	3.57	3.68	97.8	2.74
November	6,524	229	2.23	63.55	5.88	116.4	390,167	378,446	4.26	4.39	94.9	2.93
December	6,541	232	2.04	57.52	5.91	96.0	386,756	374,513	4.92	5.08	96.2	3.16
Year 2019												
January	5,447	192	2.08	59.13	5.93	73.8	406,718	394,288	4.19	4.32	90.4	2.93
February	4,486	155	2.27	65.75	5.78	69.4	379,192	364,901	3.79	3.94	89.0	2.82
March	3,725	130	2.43	69.63	6.15	66.9	386,643	374,986	3.66	3.77	89.5	2.81
April	3,159	111	2.71	76.93	5.65	101.5	359,063	348,044	3.09	3.18	87.9	2.54
May	4,631	162	2.24	63.78	5.41	73.8	422,966	410,771	2.94	3.03	90.7	2.49
June	3,740	130	2.18	62.61	5.15	85.7	491,914	476,866	2.76	2.84	88.1	2.44
July	5,723	199	2.01	57.76	5.22	86.8	592,859	573,479	2.65	2.74	84.6	2.38
August	6,693	235	1.72	48.82	5.15	115.7	604,271	584,200	2.55	2.64	84.4	2.31
Sept	3,034	105	1.68	48.71	5.58	56.6	519,620	503,066	2.77	2.86	85.9	2.40
October	1,738	60	1.51	43.76	5.45	92.3	456,258	441,488	2.71	2.80	86.1	2.35
November	6,654	232	1.46	41.78	5.38	227.7	392,163	379,687	3.16	3.26	89.3	2.51
December	5,236	183	1.14	32.50	5.44	132.2	424,532	411,022	3.16	3.27	90.2	2.49
Year 2020												
January	8,421	295	1.53	43.68	5.34	144.1	445,637	431,393	2.87	2.97	88.3	2.40
February	6,913	244	1.47	41.75	4.99	164.5	436,651	422,625	2.66	2.74	89.0	2.33
March	4,942	174	1.36	38.61	5.46	82.4	439,598	425,006	2.36	2.44	88.7	2.19
April	5,150	180	1.38	39.50	5.35	98.8	388,483	374,198	2.34	2.43	89.1	2.17
Year to Date												
2018	29,182	1,038	2.48	69.65	5.60	112.1	1,558,240	1,509,887	3.97	4.10	96.1	2.88
2019	16,818	588	2.33	66.57	5.88	74.7	1,531,616	1,482,219	3.70	3.82	89.2	2.78
2020	25,426	893	1.45	41.32	5.27	119.7	1,710,369	1,653,221	2.56	2.65	88.8	2.28
Rolling 12 Months Ending in April												
2019	70,847	2,490	2.54	72.10	5.83	95.3	5,526,935	5,351,791	3.61	3.72	94.2	2.77
2020	62,874	2,201	1.62	46.26	5.30	107.8	5,614,953	5,433,800	2.73	2.83	87.5	2.38

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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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- 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, 2010 - April 2020

	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												
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	3,056,215	165,567	1.85	34.19	1.64	93.1	24,704	4,190	12.67	74.73	0.46	73.8
2018	2,849,062	152,015	1.89	35.41	1.70	94.2	47,699	8,022	14.52	86.39	0.44	81.7
2019	2,601,613	137,047	1.81	34.33	1.74	98.9	19,311	3,276	14.33	84.50	0.50	64.8
Year 2018												
January	250,209	13,549	1.99	36.82	1.60	79.9	19,101	3,180	13.71	82.73	0.46	63.7
February	200,760	10,859	1.93	35.69	1.58	93.0	3,249	550	13.53	79.99	0.43	195.1
March	229,355	11,974	1.84	35.33	1.83	99.4	2,273	388	14.17	82.79	0.43	107.3
April	202,887	10,815	1.88	35.20	1.61	107.5	1,427	242	14.45	84.93	0.44	61.3
May	223,521	11,725	1.87	35.68	1.78	98.4	2,731	459	14.46	86.28	0.46	95.4
June	227,121	12,009	1.84	34.83	1.84	89.2	2,614	444	15.89	93.43	0.40	92.9
July	235,760	12,666	1.87	34.83	1.73	82.1	1,775	301	16.08	94.43	0.45	64.8
August	260,087	13,942	1.86	34.73	1.68	88.4	1,864	315	15.92	93.84	0.42	59.8
Sept	235,579	12,761	1.82	33.63	1.56	94.5	2,082	351	15.17	89.90	0.39	82.5
October	274,139	14,529	1.89	35.60	1.72	113.8	3,039	517	15.83	92.93	0.41	127.4
November	248,768	13,265	1.92	35.95	1.73	97.0	3,328	566	15.95	93.64	0.42	119.9
December	260,878	13,920	1.94	36.42	1.68	99.1	4,215	709	14.20	84.15	0.46	132.8
Year 2019												
January	255,058	13,482	1.90	36.07	1.76	93.2	2,359	393	11.93	71.58	0.50	49.8
February	205,832	10,934	1.83	34.49	1.67	94.5	1,879	314	13.63	81.50	0.46	86.2
March	222,160	11,549	1.88	36.18	1.88	94.0	1,239	210	14.88	87.69	0.54	61.1
April	212,491	10,991	1.84	35.58	1.89	123.7	1,373	233	15.69	92.33	0.51	63.5
May	216,008	11,203	1.83	35.24	1.92	114.9	1,581	270	15.62	91.40	0.49	69.6
June	209,895	11,090	1.76	33.36	1.83	103.5	1,476	250	15.09	89.05	0.48	67.8
July	208,969	11,154	1.79	33.51	1.69	81.4	1,384	236	15.49	90.86	0.48	48.3
August	227,149	11,923	1.78	33.87	1.68	93.5	1,160	199	16.40	95.66	0.49	50.1
Sept	206,975	11,060	1.75	32.81	1.58	92.7	1,301	222	13.76	80.79	0.57	62.1
October	217,837	11,469	1.78	33.77	1.69	110.9	1,671	285	15.02	88.05	0.52	71.7
November	212,346	11,312	1.78	33.36	1.61	98.6	1,569	267	13.59	79.96	0.50	68.7
December	206,894	10,881	1.75	33.26	1.66	102.2	2,319	396	13.47	78.85	0.50	97.8
Year 2020												
January	201,589	10,795	1.80	33.57	1.64	115.4	725	124	15.12	88.14	0.56	44.3
February	169,190	9,124	1.76	32.72	1.74	110.7	722	123	14.71	86.54	0.57	50.3
March	155,393	8,311	1.78	33.26	1.92	115.8	1,351	229	10.89	64.15	0.52	65.9
April	122,399	7,115	1.71	29.49	1.46	108.1	1,507	258	8.39	49.06	0.53	102.9
Year to Date												
2018	883,211	47,198	1.91	35.81	1.66	93.0	26,050	4,360	13.77	82.53	0.45	72.3
2019	895,541	46,956	1.87	35.62	1.80	99.4	6,850	1,151	13.69	81.46	0.50	61.7
2020	648,571	35,345	1.77	32.46	1.70	112.7	4,305	734	11.43	67.05	0.54	65.3
Rolling 12 Months Ending in April												
2019	2,861,393	151,773	1.87	35.35	1.74	96.2	28,499	4,814	14.93	88.32	0.45	85.1
2020	2,354,643	125,436	1.78	33.32	1.70	102.2	16,765	2,859	13.83	81.13	0.51	66.3

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COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.
PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2010 - April 2020 (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												
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	3.52
2015	14,550	524	2.45	68.22	5.26	67.3	4,683,291	4,530,195	2.94	3.04	93.2	2.57
2016	13,573	492	2.50	68.88	5.44	69.9	4,791,729	4,634,518	2.54	2.63	94.0	2.29
2017	0	0	--	--	--	0.0	4,346,156	4,201,573	3.08	3.19	94.0	2.54
2018	0	0	--	--	--	0.0	4,889,212	4,727,692	3.40	3.52	94.6	2.84
2019	0	0	--	--	--	0.0	4,907,917	4,742,079	2.68	2.77	89.4	2.37
Year 2018												
January	0	0	--	--	--	0.0	343,077	331,644	5.21	5.39	93.1	3.99
February	0	0	--	--	--	0.0	312,835	302,657	3.38	3.49	93.7	2.80
March	0	0	--	--	--	0.0	346,290	334,497	2.87	2.97	93.6	2.46
April	0	0	--	--	--	0.0	319,774	309,352	2.96	3.06	94.1	2.51
May	0	0	--	--	--	0.0	377,388	365,397	2.79	2.89	94.8	2.46
June	0	0	--	--	--	0.0	422,237	408,330	2.89	2.98	95.3	2.53
July	0	0	--	--	--	0.0	570,783	552,360	3.21	3.32	95.3	2.79
August	0	0	--	--	--	0.0	565,773	547,533	3.22	3.33	95.1	2.76
Sept	0	0	--	--	--	0.0	489,149	472,958	2.90	3.00	95.4	2.54
October	0	0	--	--	--	0.0	419,722	405,657	3.20	3.31	94.9	2.68
November	0	0	--	--	--	0.0	355,192	343,013	4.12	4.27	94.1	3.19
December	0	0	--	--	--	0.0	366,993	354,294	4.49	4.65	95.0	3.39
Year 2019												
January	0	0	--	--	--	0.0	381,402	368,347	3.83	3.97	91.1	3.01
February	0	0	--	--	--	0.0	342,971	331,583	3.47	3.60	90.6	2.83
March	0	0	--	--	--	0.0	352,850	341,038	3.25	3.37	90.0	2.70
April	0	0	--	--	--	0.0	312,158	302,172	2.63	2.72	88.9	2.31
May	0	0	--	--	--	0.0	351,935	340,689	2.51	2.60	90.1	2.26
June	0	0	--	--	--	0.0	416,432	403,183	2.33	2.41	89.2	2.15
July	0	0	--	--	--	0.0	540,331	522,062	2.37	2.46	87.7	2.21
August	0	0	--	--	--	0.0	545,846	526,699	2.23	2.31	88.4	2.10
Sept	0	0	--	--	--	0.0	468,552	452,716	2.36	2.44	89.0	2.17
October	0	0	--	--	--	0.0	410,406	396,499	2.20	2.28	88.7	2.07
November	0	0	--	--	--	0.0	368,029	354,954	2.74	2.85	90.0	2.38
December	0	0	--	--	--	0.0	417,005	402,138	2.68	2.78	91.2	2.38
Year 2020												
January	0	0	--	--	--	0.0	417,189	402,001	2.36	2.45	91.1	2.17
February	0	0	--	--	--	0.0	384,463	371,044	2.09	2.17	91.0	2.00
March	0	0	--	--	--	0.0	369,642	356,790	1.87	1.93	88.9	1.86
April	0	0	--	--	--	0.0	322,578	311,096	1.79	1.86	90.4	1.79
Year to Date												
2018	0	0	--	--	--	0.0	1,321,975	1,278,150	3.63	3.75	93.6	2.98
2019	0	0	--	--	--	0.0	1,389,381	1,343,140	3.33	3.45	90.2	2.73
2020	0	0	--	--	--	0.0	1,493,871	1,440,931	2.05	2.13	90.4	1.97
Rolling 12 Months Ending in April												
2019	0	0	--	--	--	0.0	4,956,617	4,792,682	3.31	3.43	93.6	2.77
2020	0	0	--	--	--	0.0	5,012,408	4,839,870	2.30	2.39	89.5	2.14

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

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2010 - April 2020

	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												
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	3.12	70.30	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	2.85	63.90	2.55	13.6	0	0	--	--	--	0.0
2016	1,288	57	2.69	60.89	3.03	8.3	0	0	--	--	--	0.0
2017	548	24	2.78	63.31	2.99	3.9	0	0	--	--	--	0.0
2018	290	13	2.94	66.52	3.04	2.2	0	0	--	--	--	0.0
2019	193	8	2.92	66.55	3.01	1.6	0	0	--	--	--	0.0
Year 2018												
January	95	4	2.92	66.58	3.11	5.5	0	0	--	--	--	0.0
February	31	1	2.92	66.05	3.19	2.3	0	0	--	--	--	0.0
March	5	0	2.92	66.20	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
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
August	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Sept	0	0	--	--	--	0.0	0	0	--	--	--	0.0
October	52	2	2.94	66.53	2.87	5.5	0	0	--	--	--	0.0
November	62	3	2.94	66.44	2.99	5.8	0	0	--	--	--	0.0
December	46	2	2.97	66.83	3.05	4.4	0	0	--	--	--	0.0
Year 2019												
January	27	1	2.90	65.89	3.00	2.1	0	0	--	--	--	0.0
February	37	2	2.90	65.51	2.95	3.2	0	0	--	--	--	0.0
March	48	2	2.90	65.86	2.94	3.9	0	0	--	--	--	0.0
April	2	0	2.90	65.28	2.90	0.3	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	2	0	2.90	66.38	3.02	0.4	0	0	--	--	--	0.0
July	1	0	2.97	67.69	2.94	0.1	0	0	--	--	--	0.0
August	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Sept	0	0	--	--	--	0.0	0	0	--	--	--	0.0
October	23	1	2.96	67.99	3.17	2.7	0	0	--	--	--	0.0
November	31	1	2.96	67.99	3.17	3.0	0	0	--	--	--	0.0
December	21	1	2.96	67.34	2.91	2.0	0	0	--	--	--	0.0
Year 2020												
January	26	1	2.96	67.40	2.94	2.8	0	0	--	--	--	0.0
February	58	3	2.96	67.58	2.96	5.2	0	0	--	--	--	0.0
March	0	0	--	--	--	0.0	0	0	--	--	--	0.0
April	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Year to Date												
2018	130	6	2.92	66.44	3.13	2.4	0	0	--	--	--	0.0
2019	115	5	2.90	65.74	2.96	2.5	0	0	--	--	--	0.0
2020	84	4	2.96	67.52	2.95	2.3	0	0	--	--	--	0.0
Rolling 12 Months Ending in April												
2019	275	12	2.93	66.23	2.96	2.2	0	0	--	--	--	0.0
2020	162	7	2.96	67.64	3.02	1.5	0	0	--	--	--	0.0

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

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

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2010 - April 2020 (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												
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	5.42	5.47	4.9	4.47
2015	0	0	--	--	--	0.0	6,499	6,371	4.11	4.19	5.5	3.76
2016	0	0	--	--	--	0.0	8,005	7,766	3.85	3.97	6.1	3.69
2017	0	0	--	--	--	0.0	7,841	7,593	3.82	3.95	4.9	3.75
2018	0	0	--	--	--	0.0	9,090	8,823	3.49	3.59	6.6	3.47
2019	0	0	--	--	--	0.0	9,429	9,087	3.26	3.39	6.8	3.26
Year 2018												
January	0	0	--	--	--	0.0	844	818	3.63	3.74	7.1	3.56
February	0	0	--	--	--	0.0	709	688	3.72	3.84	6.5	3.69
March	0	0	--	--	--	0.0	768	746	3.59	3.69	6.8	3.58
April	0	0	--	--	--	0.0	732	713	3.49	3.58	7.3	3.49
May	0	0	--	--	--	0.0	776	758	3.47	3.55	7.4	3.47
June	0	0	--	--	--	0.0	670	650	3.57	3.67	5.8	3.57
July	0	0	--	--	--	0.0	790	760	3.39	3.52	5.8	3.39
August	0	0	--	--	--	0.0	786	764	3.42	3.52	5.8	3.42
Sept	0	0	--	--	--	0.0	744	723	3.38	3.48	6.3	3.38
October	0	0	--	--	--	0.0	792	770	3.36	3.45	7.2	3.33
November	0	0	--	--	--	0.0	723	701	3.41	3.52	6.6	3.37
December	0	0	--	--	--	0.0	756	732	3.41	3.52	6.6	3.39
Year 2019												
January	0	0	--	--	--	0.0	778	751	3.40	3.52	6.2	3.38
February	0	0	--	--	--	0.0	772	745	3.37	3.50	6.8	3.35
March	0	0	--	--	--	0.0	839	812	3.36	3.47	7.2	3.33
April	0	0	--	--	--	0.0	775	748	3.30	3.41	7.3	3.29
May	0	0	--	--	--	0.0	811	782	3.26	3.38	7.7	3.26
June	0	0	--	--	--	0.0	807	776	3.23	3.36	7.3	3.22
July	0	0	--	--	--	0.0	721	701	3.17	3.26	5.9	3.17
August	0	0	--	--	--	0.0	838	808	3.13	3.25	6.8	3.13
Sept	0	0	--	--	--	0.0	747	717	3.15	3.28	6.5	3.15
October	0	0	--	--	--	0.0	766	734	3.24	3.38	6.8	3.23
November	0	0	--	--	--	0.0	743	713	3.30	3.43	6.3	3.28
December	0	0	--	--	--	0.0	832	801	3.26	3.39	6.7	3.25
Year 2020												
January	0	0	--	--	--	0.0	795	763	3.09	3.22	6.3	3.09
February	0	0	--	--	--	0.0	693	663	3.12	3.26	6.0	3.11
March	0	0	--	--	--	0.0	751	722	3.10	3.22	6.7	3.10
April	0	0	--	--	--	0.0	661	638	3.09	3.20	6.7	3.09
Year to Date												
2018	0	0	--	--	--	0.0	3,053	2,965	3.61	3.71	6.9	3.58
2019	0	0	--	--	--	0.0	3,164	3,055	3.36	3.47	6.9	3.34
2020	0	0	--	--	--	0.0	2,898	2,786	3.10	3.22	6.4	3.09
Rolling 12 Months Ending in April												
2019	0	0	--	--	--	0.0	9,201	8,913	3.40	3.51	6.5	3.39
2020	0	0	--	--	--	0.0	9,163	8,817	3.18	3.30	6.6	3.18

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W = Withheld to avoid disclosure of individual company data.

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

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

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

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2010 - April 2020

	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												
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	2.97	64.15	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	263,630	12,132	2.72	59.17	1.35	71.4	2,359	385	13.45	82.47	1.42	16.9
2016	210,749	9,859	2.67	57.01	1.30	67.0	2,541	412	10.51	64.79	1.27	18.3
2017	192,637	9,178	2.49	52.29	1.35	70.7	1,850	297	11.18	69.57	1.42	15.2
2018	170,730	8,224	2.47	51.38	1.30	67.2	2,319	372	13.46	83.97	1.35	15.9
2019	147,537	7,156	2.55	52.62	1.18	63.6	1,684	275	13.19	80.82	1.47	13.6
Year 2018												
January	15,751	758	2.46	51.13	1.18	61.0	408	65	12.64	79.32	1.32	13.7
February	14,274	683	2.48	51.82	1.32	60.9	187	30	11.38	71.32	1.20	15.9
March	15,612	747	2.51	52.40	1.31	67.4	234	38	12.59	78.52	1.32	23.5
April	13,476	643	2.52	52.79	1.35	67.0	153	24	13.24	83.77	1.23	17.6
May	14,544	704	2.51	51.92	1.24	71.9	149	24	14.33	87.27	1.47	16.1
June	14,489	697	2.49	51.65	1.28	71.9	107	17	13.54	84.39	1.48	10.5
July	14,900	724	2.41	49.69	1.32	75.3	138	22	14.64	89.87	1.42	13.2
August	13,930	668	2.48	51.76	1.31	70.4	135	22	14.45	89.97	1.39	15.5
Sept	12,593	600	2.53	53.10	1.35	63.7	155	25	14.38	89.73	1.12	19.7
October	12,410	598	2.47	51.18	1.38	67.1	180	29	14.50	91.01	1.37	14.9
November	14,259	701	2.50	50.92	1.15	69.1	206	33	14.01	87.74	1.58	15.0
December	14,492	701	2.35	48.52	1.47	64.1	268	43	13.75	85.58	1.46	19.7
Year 2019												
January	12,678	629	2.49	50.14	1.13	57.4	154	25	12.98	80.23	1.24	8.0
February	12,842	617	2.61	54.43	1.16	61.6	199	33	13.77	82.99	1.45	19.3
March	13,424	629	2.68	57.20	1.49	66.7	126	21	13.43	82.27	1.63	13.2
April	12,978	629	2.63	54.29	1.15	68.6	223	36	12.89	79.74	1.54	21.8
May	12,720	623	2.51	51.21	0.97	68.3	92	15	14.12	86.68	1.48	9.4
June	11,705	567	2.49	51.38	1.22	64.3	131	21	13.04	79.96	1.55	14.7
July	11,385	551	2.45	50.57	1.32	63.5	80	13	11.99	74.33	1.41	11.8
August	10,876	530	2.39	49.14	1.23	59.9	112	18	12.56	77.49	1.66	12.4
Sept	11,131	539	2.48	51.28	1.24	63.8	154	25	13.15	80.17	1.58	18.0
October	11,889	586	2.59	52.47	1.21	61.0	136	22	13.01	79.34	1.42	17.6
November	13,255	645	2.59	53.19	1.05	66.4	137	22	13.67	83.44	1.46	9.2
December	12,654	612	2.67	55.16	1.07	63.4	141	23	13.33	81.47	1.25	16.2
Year 2020												
January	12,628	614	2.51	51.68	1.13	62.3	162	27	13.84	83.92	1.71	20.1
February	11,241	555	2.42	48.89	1.12	59.1	188	31	12.36	76.04	0.93	23.3
March	13,022	621	2.63	55.19	1.27	70.0	192	31	10.77	66.35	1.35	26.9
April	9,654	471	2.53	51.78	1.21	59.5	115	19	10.75	65.79	1.36	18.0
Year to Date												
2018	59,113	2,831	2.49	52.01	1.29	63.9	982	157	12.48	78.29	1.28	16.3
2019	51,921	2,504	2.60	54.01	1.24	63.3	702	115	13.26	81.24	1.47	14.3
2020	46,546	2,261	2.52	51.98	1.18	62.7	657	107	11.98	73.39	1.30	22.1
Rolling 12 Months Ending in April												
2019	163,538	7,897	2.51	51.99	1.29	67.2	2,039	330	13.86	85.72	1.43	15.1
2020	142,162	6,913	2.53	51.91	1.17	63.5	1,640	268	12.68	77.66	1.41	15.8

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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 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2010 - April 2020 (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												
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	2.56	69.67	5.83	23.2	742,347	718,360	4.54	4.69	62.7	4.12
2015	8,189	304	1.73	46.72	5.50	24.1	765,964	740,975	2.83	2.93	60.6	2.82
2016	3,664	135	2.00	54.12	5.84	11.2	744,034	721,358	2.65	2.74	59.6	2.68
2017	2,356	85	1.59	44.08	5.84	8.1	803,435	778,741	3.18	3.28	62.0	3.06
2018	1,911	71	1.75	47.47	5.74	7.1	792,297	769,790	3.39	3.49	58.6	3.25
2019	2,028	73	1.69	46.99	5.81	7.8	795,998	772,508	2.83	2.91	57.3	2.80
Year 2018												
January	0	0	--	--	--	0.0	69,164	67,045	3.59	3.70	58.1	3.42
February	0	0	--	--	--	0.0	60,810	58,990	3.41	3.52	58.6	3.26
March	0	0	--	--	--	0.0	61,164	59,423	2.85	2.94	56.5	2.81
April	0	0	--	--	--	0.0	61,184	59,457	2.92	3.01	58.4	2.87
May	0	0	--	--	--	0.0	63,410	61,557	2.99	3.08	58.8	2.92
June	0	0	--	--	--	0.0	65,879	64,032	3.14	3.23	59.8	3.03
July	160	6	1.70	45.10	5.83	6.8	68,296	66,523	3.03	3.11	57.4	2.93
August	260	10	1.78	46.99	5.55	12.2	69,386	67,341	3.12	3.21	58.1	3.03
Sept	664	25	1.78	47.54	6.02	31.0	67,825	66,022	3.12	3.20	60.1	3.04
October	477	17	1.76	48.96	5.45	20.6	66,419	64,687	3.75	3.85	59.0	3.56
November	172	6	1.69	46.62	5.85	8.4	71,469	69,556	3.97	4.08	61.6	3.75
December	178	6	1.70	47.00	5.53	7.3	67,289	65,157	4.70	4.85	56.6	4.31
Year 2019												
January	0	0	--	--	--	0.0	72,247	70,154	3.77	3.88	58.2	3.59
February	0	0	--	--	--	0.0	63,912	61,868	3.45	3.56	58.1	3.34
March	0	0	--	--	--	0.0	65,584	63,706	3.13	3.22	57.2	3.07
April	0	0	--	--	--	0.0	63,841	62,075	2.85	2.93	58.4	2.84
May	0	0	--	--	--	0.0	65,305	63,475	2.75	2.83	58.1	2.73
June	0	0	--	--	--	0.0	63,184	61,402	2.63	2.71	56.8	2.63
July	43	2	1.71	46.96	5.81	1.6	67,946	65,986	2.49	2.57	57.8	2.49
August	615	23	1.75	46.99	5.75	29.3	68,127	66,022	2.38	2.45	57.6	2.39
Sept	743	26	1.63	47.00	5.56	26.1	64,141	62,097	2.56	2.65	56.7	2.56
October	627	23	1.72	47.00	6.17	32.6	63,390	61,514	2.46	2.54	55.6	2.49
November	0	0	--	--	--	0.0	67,713	65,714	2.77	2.86	56.8	2.76
December	0	0	--	--	--	0.0	70,607	68,496	2.62	2.70	56.2	2.65
Year 2020												
January	0	0	--	--	--	0.0	71,557	69,397	2.36	2.44	56.1	2.41
February	0	0	--	--	--	0.0	65,225	63,315	2.12	2.19	56.4	2.19
March	0	0	--	--	--	0.0	65,805	63,979	2.00	2.05	56.0	2.12
April	0	0	--	--	--	0.0	61,924	60,107	1.87	1.92	56.7	1.97
Year to Date												
2018	0	0	--	--	--	0.0	252,323	244,914	3.21	3.30	57.9	3.10
2019	0	0	--	--	--	0.0	265,584	257,803	3.31	3.41	58.0	3.22
2020	0	0	--	--	--	0.0	264,511	256,797	2.10	2.16	56.3	2.18
Rolling 12 Months Ending in April												
2019	1,911	71	1.75	47.47	5.74	7.3	805,558	782,678	3.43	3.53	58.6	3.29
2020	2,028	73	1.70	47.00	5.82	8.7	794,925	771,503	2.42	2.50	56.7	2.45

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

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

Table 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, April 2020 and 2019
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	27	6	379.0%	24	0	3	6	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	3	6	-43.0%	0	0	3	6	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	24	0	--	24	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	290	1,638	-82.0%	6	0	284	1,628	0	0	0	10
New Jersey	23	9	168.0%	0	0	23	9	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	266	1,629	-84.0%	6	0	260	1,619	0	0	0	10
East North Central	6,152	11,528	-47.0%	3,438	6,910	2,549	4,490	0	0	165	128
Illinois	2,001	3,321	-40.0%	413	661	1,437	2,532	0	0	152	128
Indiana	1,642	2,611	-37.0%	1,432	2,431	209	180	0	0	0	0
Michigan	564	2,041	-72.0%	538	2,027	26	13	0	0	0	0
Ohio	979	1,966	-50.0%	101	202	877	1,764	0	0	0	0
Wisconsin	967	1,589	-39.0%	953	1,589	0	0	0	0	13	0
West North Central	6,121	8,202	-25.0%	5,934	7,908	0	0	0	0	187	294
Iowa	1,097	1,299	-16.0%	958	1,133	0	0	0	0	140	166
Kansas	482	858	-44.0%	482	858	0	0	0	0	0	0
Minnesota	383	1,156	-67.0%	383	1,088	0	0	0	0	0	68
Missouri	1,906	2,106	-9.5%	1,906	2,106	0	0	0	0	0	0
Nebraska	822	1,171	-30.0%	774	1,111	0	0	0	0	48	59
North Dakota	1,389	1,442	-3.7%	1,389	1,442	0	0	0	0	0	0
South Dakota	42	169	-75.0%	42	169	0	0	0	0	0	0
South Atlantic	3,415	6,291	-46.0%	3,307	5,635	65	588	0	0	44	68
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	418	665	-37.0%	418	665	0	0	0	0	0	0
Georgia	441	1,248	-65.0%	441	1,232	0	0	0	0	0	16
Maryland	63	212	-70.0%	0	0	63	195	0	0	0	17
North Carolina	719	1,156	-38.0%	698	1,134	2	2	0	0	19	20
South Carolina	424	587	-28.0%	424	587	0	0	0	0	0	0
Virginia	115	228	-50.0%	90	190	0	22	0	0	25	15
West Virginia	1,236	2,195	-44.0%	1,236	1,827	0	369	0	0	0	0
East South Central	2,630	4,472	-41.0%	2,356	4,121	245	298	0	0	29	54
Alabama	621	1,117	-44.0%	621	1,117	0	0	0	0	0	0
Kentucky	1,495	2,344	-36.0%	1,495	2,344	0	0	0	0	0	0
Mississippi	301	403	-25.0%	56	105	245	298	0	0	0	0
Tennessee	213	609	-65.0%	184	554	0	0	0	0	29	54
West South Central	5,497	6,477	-15.0%	2,414	3,503	3,081	2,955	0	0	1	20
Arkansas	590	893	-34.0%	490	724	99	164	0	0	1	4
Louisiana	203	479	-58.0%	203	364	0	115	0	0	0	0
Oklahoma	215	374	-42.0%	156	359	59	0	0	0	0	15
Texas	4,488	4,731	-5.1%	1,565	2,056	2,924	2,675	0	0	0	0
Mountain	5,531	5,498	0.6%	4,866	4,924	666	573	0	0	0	0
Arizona	558	974	-43.0%	558	974	0	0	0	0	0	0
Colorado	994	1,182	-16.0%	994	1,182	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	559	507	10.0%	19	24	540	483	0	0	0	0
Nevada	153	126	22.0%	108	95	45	31	0	0	0	0
New Mexico	534	586	-8.8%	534	586	0	0	0	0	0	0
Utah	1,026	697	47.0%	989	678	37	19	0	0	0	0
Wyoming	1,706	1,425	20.0%	1,664	1,385	43	41	0	0	0	0
Pacific Contiguous	272	588	-54.0%	67	137	161	396	0	0	44	55
California	44	55	-20.0%	0	0	0	0	0	0	44	55
Oregon	67	137	-51.0%	67	137	0	0	0	0	0	0
Washington	161	396	-59.0%	0	0	161	396	0	0	0	0
Pacific Noncontiguous	88	72	22.0%	28	13	60	59	0	0	0	0
Alaska	28	13	117.0%	28	13	0	0	0	0	0	0
Hawaii	60	59	1.0%	0	0	60	59	0	0	0	0
U.S. Total	30,023	44,771	-33.0%	22,438	33,151	7,115	10,991	0	0	471	629

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

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

Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, (Year-to-Date) April 2020 and 2019
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	79	30	166.0%	56	0	23	30	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	23	30	-23.0%	0	0	23	30	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	56	0	--	56	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	3,683	7,001	-47.0%	37	0	3,625	6,980	0	0	21	22
New Jersey	136	189	-28.0%	0	0	136	189	0	0	0	0
New York	0	69	-100.0%	0	0	0	69	0	0	0	0
Pennsylvania	3,547	6,743	-47.0%	37	0	3,489	6,721	0	0	21	22
East North Central	30,080	40,552	-26.0%	16,758	23,061	12,665	16,899	0	0	657	592
Illinois	8,643	12,438	-31.0%	1,437	2,321	6,562	9,526	0	0	643	591
Indiana	7,762	10,416	-25.0%	6,917	9,705	845	711	0	0	0	0
Michigan	3,736	5,341	-30.0%	3,710	5,328	26	13	0	0	0	0
Ohio	5,889	7,570	-22.0%	658	921	5,232	6,648	0	0	0	0
Wisconsin	4,049	4,786	-15.0%	4,036	4,786	0	0	0	0	13	0
West North Central	32,650	32,681	-0.1%	31,708	31,647	0	0	4	5	938	1,028
Iowa	5,217	4,443	17.0%	4,535	3,729	0	0	0	0	681	714
Kansas	3,287	3,399	-3.3%	3,287	3,399	0	0	0	0	0	0
Minnesota	2,257	3,650	-38.0%	2,257	3,582	0	0	0	0	0	68
Missouri	10,335	9,297	11.0%	10,331	9,292	0	0	4	5	0	0
Nebraska	4,120	4,057	1.6%	3,864	3,810	0	0	0	0	257	247
North Dakota	7,032	7,281	-3.4%	7,032	7,281	0	0	0	0	0	0
South Dakota	402	554	-28.0%	402	554	0	0	0	0	0	0
South Atlantic	15,908	25,632	-38.0%	14,450	22,628	1,267	2,700	0	0	192	304
Delaware	0	71	-100.0%	0	0	0	71	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,948	2,994	-35.0%	1,936	2,971	0	0	0	0	11	23
Georgia	2,269	5,046	-55.0%	2,247	4,995	0	0	0	0	23	51
Maryland	431	1,130	-62.0%	0	0	431	1,055	0	0	0	75
North Carolina	2,983	4,088	-27.0%	2,884	4,011	19	17	0	0	80	60
South Carolina	1,920	2,913	-34.0%	1,917	2,905	0	0	0	0	3	8
Virginia	513	946	-46.0%	438	737	0	123	0	0	75	86
West Virginia	5,845	8,442	-31.0%	5,028	7,009	817	1,433	0	0	0	0
East South Central	13,685	17,581	-22.0%	12,472	16,433	1,011	932	0	0	201	217
Alabama	3,474	4,402	-21.0%	3,474	4,402	0	0	0	0	0	0
Kentucky	7,551	10,153	-26.0%	7,551	10,153	0	0	0	0	0	0
Mississippi	1,222	1,373	-11.0%	211	442	1,011	932	0	0	0	0
Tennessee	1,437	1,653	-13.0%	1,236	1,436	0	0	0	0	201	217
West South Central	23,787	31,020	-23.0%	11,091	16,849	12,650	14,070	0	0	46	101
Arkansas	3,386	5,068	-33.0%	2,645	4,289	725	753	0	0	16	26
Louisiana	1,374	2,113	-35.0%	1,079	1,606	295	507	0	0	0	0
Oklahoma	630	1,983	-68.0%	537	1,894	63	14	0	0	30	75
Texas	18,397	21,856	-16.0%	6,830	9,060	11,567	12,796	0	0	0	0
Mountain	22,314	26,342	-15.0%	19,675	22,823	2,639	3,519	0	0	0	0
Arizona	2,734	5,079	-46.0%	2,734	5,079	0	0	0	0	0	0
Colorado	4,202	4,875	-14.0%	4,202	4,875	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2,297	3,098	-26.0%	73	101	2,224	2,996	0	0	0	0
Nevada	339	605	-44.0%	144	384	195	221	0	0	0	0
New Mexico	2,360	2,504	-5.8%	2,360	2,504	0	0	0	0	0	0
Utah	4,016	3,429	17.0%	3,961	3,298	55	131	0	0	0	0
Wyoming	6,366	6,751	-5.7%	6,201	6,581	165	171	0	0	0	0
Pacific Contiguous	1,956	2,315	-16.0%	525	486	1,226	1,589	0	0	205	240
California	205	240	-15.0%	0	0	0	0	0	0	205	240
Oregon	525	486	8.0%	525	486	0	0	0	0	0	0
Washington	1,226	1,589	-23.0%	0	0	1,226	1,589	0	0	0	0
Pacific Noncontiguous	354	354	-0.1%	115	115	239	239	0	0	0	0
Alaska	115	115	-0.1%	115	115	0	0	0	0	0	0
Hawaii	239	239	-0.1%	0	0	239	239	0	0	0	0
U.S. Total	144,496	183,507	-21.0%	106,887	134,043	35,345	46,956	4	5	2,261	2,504

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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, April 2020 and 2019
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	19	2	672.0%	0	0	19	2	0	0	0	0
Connecticut	15	0	--	0	0	15	0	0	0	0	0
Maine	3	2	38.0%	0	0	3	2	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	-100.0%	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	54	13	305.0%	0	0	48	8	0	0	6	6
New Jersey	36	0	--	0	0	36	0	0	0	0	0
New York	1	2	-47.0%	0	0	1	2	0	0	0	0
Pennsylvania	17	12	44.0%	0	0	11	6	0	0	6	6
East North Central	42	91	-54.0%	18	45	23	42	0	0	1	5
Illinois	2	7	-64.0%	0	0	2	7	0	0	0	0
Indiana	6	12	-48.0%	6	12	0	0	0	0	0	0
Michigan	11	13	-17.0%	10	10	0	0	0	0	0	3
Ohio	22	58	-62.0%	1	22	21	35	0	0	1	1
Wisconsin	0	2	-100.0%	0	2	0	0	0	0	0	0
West North Central	46	27	70.0%	46	27	0	0	0	0	0	0
Iowa	7	10	-31.0%	7	10	0	0	0	0	0	0
Kansas	15	8	94.0%	15	8	0	0	0	0	0	0
Minnesota	0	1	-100.0%	0	1	0	0	0	0	0	0
Missouri	15	6	129.0%	15	6	0	0	0	0	0	0
Nebraska	0	1	-100.0%	0	1	0	0	0	0	0	0
North Dakota	9	0	NM	9	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	57	161	-64.0%	30	133	18	3	0	0	9	25
Delaware	16	0	--	0	0	16	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5	52	-91.0%	3	51	0	0	0	0	2	1
Georgia	6	25	-77.0%	4	5	0	0	0	0	2	19
Maryland	2	2	0.0%	0	0	2	2	0	0	0	0
North Carolina	7	15	-56.0%	4	14	0	0	0	0	3	2
South Carolina	7	14	-53.0%	6	11	0	0	0	0	1	3
Virginia	2	40	-96.0%	0	39	0	1	0	0	2	0
West Virginia	14	13	5.3%	14	13	0	0	0	0	0	0
East South Central	13	19	-34.0%	10	19	0	0	0	0	2	0
Alabama	0	1	-33.0%	0	1	0	0	0	0	0	0
Kentucky	7	11	-31.0%	7	11	0	0	0	0	0	0
Mississippi	0	4	-92.0%	0	4	0	0	0	0	0	0
Tennessee	5	4	21.0%	2	3	0	0	0	0	2	0
West South Central	26	34	-24.0%	21	31	5	3	0	0	0	0
Arkansas	13	14	-4.3%	8	12	5	2	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	9	7	24.0%	9	7	0	0	0	0	0	0
Texas	3	13	-74.0%	3	12	0	0	0	0	0	0
Mountain	41	24	73.0%	40	23	0	1	0	0	0	0
Arizona	7	11	-36.0%	7	11	0	0	0	0	0	0
Colorado	0	1	-100.0%	0	1	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	1	-100.0%	0	0	0	1	0	0	0	0
Nevada	1	1	-30.0%	1	1	0	0	0	0	0	0
New Mexico	7	5	41.0%	7	5	0	0	0	0	0	0
Utah	10	3	179.0%	10	3	0	0	0	0	0	0
Wyoming	17	2	578.0%	17	2	0	0	0	0	0	0
Pacific Contiguous	2	0	--	0	0	2	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	2	0	--	0	0	2	0	0	0	0	0
Pacific Noncontiguous	410	780	-47.0%	267	604	143	176	0	0	0	0
Alaska	2	0	220.0%	2	0	0	0	0	0	0	0
Hawaii	408	779	-48.0%	265	603	143	176	0	0	0	0
U.S. Total	709	1,152	-38.0%	432	882	258	233	0	0	19	36

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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) April 2020 and 2019
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	42	188	-78.0%	2	6	40	182	0	0	0	0
Connecticut	20	6	235.0%	0	0	20	6	0	0	0	0
Maine	18	125	-86.0%	0	0	18	125	0	0	0	0
Massachusetts	3	51	-95.0%	0	0	3	51	0	0	0	0
New Hampshire	2	6	-71.0%	2	6	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	110	630	-83.0%	0	345	85	261	0	0	24	24
New Jersey	36	22	68.0%	0	0	36	22	0	0	0	0
New York	6	427	-99.0%	0	345	6	82	0	0	0	0
Pennsylvania	68	181	-63.0%	0	0	43	157	0	0	24	24
East North Central	299	326	-8.2%	186	179	108	130	0	0	5	17
Illinois	16	32	-50.0%	1	1	15	31	0	0	0	0
Indiana	111	69	62.0%	111	69	0	0	0	0	0	0
Michigan	60	46	29.0%	58	41	0	0	0	0	2	5
Ohio	94	161	-42.0%	5	59	85	91	0	0	3	11
Wisconsin	18	17	3.4%	11	10	7	8	0	0	0	0
West North Central	193	168	15.0%	193	168	0	0	0	0	0	0
Iowa	29	40	-27.0%	29	40	0	0	0	0	0	0
Kansas	56	25	125.0%	56	25	0	0	0	0	0	0
Minnesota	5	12	-58.0%	5	12	0	0	0	0	0	0
Missouri	43	51	-14.0%	43	51	0	0	0	0	0	0
Nebraska	1	7	-91.0%	1	7	0	0	0	0	0	0
North Dakota	53	33	59.0%	53	33	0	0	0	0	0	0
South Dakota	5	0	--	5	0	0	0	0	0	0	0
South Atlantic	364	606	-40.0%	271	496	22	39	0	0	71	71
Delaware	16	1	NM	0	0	16	1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	41	184	-78.0%	29	166	0	0	0	0	12	18
Georgia	75	84	-11.0%	56	47	1	1	0	0	18	35
Maryland	4	26	-84.0%	0	0	4	26	0	0	0	0
North Carolina	77	98	-22.0%	59	91	0	0	0	0	19	7
South Carolina	37	35	7.0%	27	31	0	0	0	0	10	4
Virginia	22	95	-77.0%	10	78	1	10	0	0	12	7
West Virginia	91	83	10.0%	91	83	0	0	0	0	0	0
East South Central	81	105	-23.0%	74	94	0	8	0	0	7	3
Alabama	2	15	-89.0%	2	7	0	8	0	0	0	0
Kentucky	46	53	-14.0%	46	53	0	0	0	0	0	0
Mississippi	4	10	-65.0%	4	10	0	0	0	0	0	0
Tennessee	30	26	12.0%	23	23	0	0	0	0	7	3
West South Central	88	77	14.0%	66	56	23	21	0	0	0	0
Arkansas	32	29	7.5%	25	20	7	10	0	0	0	0
Louisiana	4	0	--	4	0	0	0	0	0	0	0
Oklahoma	21	12	83.0%	21	12	0	0	0	0	0	0
Texas	32	36	-12.0%	16	25	16	11	0	0	0	0
Mountain	161	129	24.0%	156	122	5	8	0	0	0	0
Arizona	40	51	-20.0%	40	51	0	0	0	0	0	0
Colorado	2	2	-27.0%	2	2	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3	7	-57.0%	0	0	3	7	0	0	0	0
Nevada	5	9	-36.0%	5	8	1	1	0	0	0	0
New Mexico	18	16	14.0%	18	16	0	0	0	0	0	0
Utah	51	32	58.0%	50	32	1	0	0	0	0	0
Wyoming	41	13	221.0%	41	13	0	0	0	0	0	0
Pacific Contiguous	4	9	-53.0%	0	6	4	3	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4	9	-53.0%	0	6	4	3	0	0	0	0
Pacific Noncontiguous	2,467	3,013	-18.0%	2,020	2,513	448	500	0	0	0	0
Alaska	10	5	118.0%	10	5	0	0	0	0	0	0
Hawaii	2,457	3,008	-18.0%	2,009	2,508	448	500	0	0	0	0
U.S. Total	3,809	5,251	-27.0%	2,967	3,985	734	1,151	0	0	107	115

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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, April 2020 and 2019
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
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	34	5	530.0%	34	5	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	27	0	--	27	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	7	5	33.0%	7	5	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	38	-100.0%	0	38	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	38	-100.0%	0	38	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	146	68	115.0%	146	68	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	146	68	115.0%	146	68	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	180	111	62.0%	180	111	0	0	0	0	0	0

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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas.
See the Technical Notes for fuel conversion factors.

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

Table 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) April 2020 and 2019
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 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	148	45	227.0%	148	45	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	124	29	324.0%	124	29	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	24	16	50.0%	24	16	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	188	153	23.0%	188	153	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	188	153	23.0%	188	153	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	557	390	43.0%	557	390	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	557	390	43.0%	557	390	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	893	588	52.0%	893	588	0	0	0	0	0	0

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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 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State, April 2020 and 2019
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	20,104	20,893	-3.8%	0	11	20,104	20,882	0	0	0	0
Connecticut	11,408	10,483	8.8%	0	0	11,408	10,483	0	0	0	0
Maine	445	103	331.0%	0	0	445	103	0	0	0	0
Massachusetts	4,080	6,138	-34.0%	0	10	4,080	6,129	0	0	0	0
New Hampshire	1,699	1,878	-9.5%	0	1	1,699	1,876	0	0	0	0
Rhode Island	2,471	2,290	7.9%	0	0	2,471	2,290	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	80,475	76,240	5.6%	6,113	5,801	73,532	69,685	0	0	830	754
New Jersey	13,961	21,491	-35.0%	0	0	13,961	21,491	0	0	0	0
New York	19,578	21,593	-9.3%	6,113	5,801	12,872	15,173	0	0	594	618
Pennsylvania	46,935	33,156	42.0%	0	0	46,700	33,021	0	0	236	135
East North Central	75,321	74,469	1.1%	25,214	26,547	48,345	46,166	426	573	1,337	1,184
Illinois	6,767	6,705	0.9%	1,288	1,032	5,478	5,669	0	0	2	4
Indiana	14,426	12,214	18.0%	6,468	5,617	7,958	6,596	0	0	0	0
Michigan	17,450	18,994	-8.1%	3,105	5,194	13,387	12,677	426	573	531	550
Ohio	25,780	25,336	1.8%	4,246	4,798	20,996	20,070	0	0	538	468
Wisconsin	10,899	11,221	-2.9%	10,107	9,905	526	1,154	0	0	266	162
West North Central	10,352	12,636	-18.0%	8,597	11,707	1,077	464	212	175	466	289
Iowa	3,373	4,307	-22.0%	2,907	4,019	0	0	0	0	466	288
Kansas	1,103	997	11.0%	1,103	997	0	0	0	0	0	0
Minnesota	2,356	3,692	-36.0%	2,217	3,681	139	10	1	0	0	1
Missouri	2,970	3,341	-11.0%	1,820	2,711	938	454	212	175	0	0
Nebraska	138	143	-3.3%	138	143	0	0	0	0	0	0
North Dakota	411	156	163.0%	411	156	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	200,442	181,662	10.0%	164,627	147,841	32,952	31,038	0	0	2,862	2,783
Delaware	1,943	1,575	23.0%	0	0	1,943	1,575	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	103,888	91,456	14.0%	100,767	88,392	2,767	2,670	0	0	353	394
Georgia	23,725	26,754	-11.0%	15,995	19,590	6,939	6,457	0	0	790	707
Maryland	7,234	6,415	13.0%	1,713	1,222	5,521	4,951	0	0	0	242
North Carolina	14,756	19,377	-24.0%	10,931	16,463	3,563	2,678	0	0	262	236
South Carolina	14,757	12,285	20.0%	14,612	11,569	26	650	0	0	119	66
Virginia	32,534	22,919	42.0%	20,603	10,476	10,964	11,595	0	0	967	848
West Virginia	1,604	881	82.0%	6	127	1,228	463	0	0	370	291
East South Central	60,468	62,937	-3.9%	45,770	41,281	12,147	19,590	0	0	2,550	2,066
Alabama	19,484	25,232	-23.0%	7,396	8,100	12,088	17,132	0	0	0	0
Kentucky	5,988	5,621	6.5%	5,937	5,530	51	91	0	0	0	0
Mississippi	27,147	26,066	4.1%	27,138	23,699	9	2,367	0	0	0	0
Tennessee	7,848	6,018	30.0%	5,298	3,952	0	0	0	0	2,550	2,066
West South Central	197,847	194,013	2.0%	59,596	55,762	88,828	85,421	0	0	49,422	52,830
Arkansas	5,228	8,075	-35.0%	3,914	6,709	1,104	1,206	0	0	210	159
Louisiana	41,929	45,040	-6.9%	23,497	23,664	2,357	3,067	0	0	16,075	18,310
Oklahoma	18,668	17,788	4.9%	12,010	11,693	6,186	5,846	0	0	471	249
Texas	132,022	123,110	7.2%	20,175	13,697	79,181	75,301	0	0	32,666	34,112
Mountain	57,180	54,818	4.3%	48,578	44,941	8,567	9,877	0	0	34	0
Arizona	24,876	25,399	-2.1%	20,184	19,003	4,692	6,396	0	0	0	0
Colorado	10,474	8,222	27.0%	8,971	7,228	1,502	993	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	179	125	43.0%	179	125	0	0	0	0	0	0
Nevada	11,864	10,842	9.4%	11,864	10,842	0	0	0	0	0	0
New Mexico	6,783	6,534	3.8%	4,411	4,046	2,372	2,488	0	0	0	0
Utah	2,805	3,566	-21.0%	2,771	3,566	0	0	0	0	34	0
Wyoming	200	130	54.0%	199	130	1	0	0	0	0	0
Pacific Contiguous	43,819	35,322	24.0%	15,671	14,103	25,543	19,048	0	0	2,606	2,170
California	28,806	26,162	10.0%	8,701	9,975	17,499	14,017	0	0	2,606	2,170
Oregon	9,127	6,411	42.0%	3,086	2,554	6,042	3,857	0	0	0	0
Washington	5,886	2,748	114.0%	3,884	1,574	2,002	1,175	0	0	0	0
Pacific Noncontiguous	32	50	-37.0%	32	50	0	0	0	0	0	0
Alaska	32	50	-37.0%	32	50	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	746,039	713,039	4.6%	374,198	348,044	311,096	302,172	638	748	60,107	62,075

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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) April 2020 and 2019
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	91,953	91,036	1.0%	3	31	91,949	91,005	0	0	0	0
Connecticut	48,029	40,970	17.0%	0	0	48,029	40,970	0	0	0	0
Maine	1,428	2,305	-38.0%	0	0	1,428	2,305	0	0	0	0
Massachusetts	25,651	34,404	-25.0%	0	24	25,651	34,381	0	0	0	0
New Hampshire	6,453	5,300	22.0%	3	7	6,450	5,293	0	0	0	0
Rhode Island	10,391	8,058	29.0%	0	0	10,391	8,058	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	397,325	358,931	11.0%	25,882	25,532	367,802	329,964	0	0	3,641	3,436
New Jersey	61,618	81,404	-24.0%	0	0	61,618	81,404	0	0	0	0
New York	98,701	98,252	0.5%	25,882	25,532	70,257	70,114	0	0	2,562	2,606
Pennsylvania	237,006	179,276	32.0%	0	0	235,927	178,446	0	0	1,079	830
East North Central	353,706	309,049	14.0%	123,245	103,730	223,235	197,580	2,065	2,415	5,160	5,325
Illinois	32,312	21,872	48.0%	7,208	1,871	25,096	19,993	0	0	8	8
Indiana	67,411	59,655	13.0%	28,369	24,213	39,042	35,442	0	0	0	0
Michigan	87,644	73,960	19.0%	24,030	17,090	59,455	52,085	2,065	2,415	2,096	2,370
Ohio	116,784	110,239	5.9%	18,189	20,814	96,555	87,284	0	0	2,041	2,140
Wisconsin	49,554	43,323	14.0%	45,451	39,741	3,088	2,775	0	0	1,016	806
West North Central	49,007	50,572	-3.1%	39,737	44,050	6,788	4,150	721	640	1,761	1,732
Iowa	15,141	17,764	-15.0%	13,380	16,066	0	0	0	0	1,761	1,698
Kansas	5,526	4,213	31.0%	5,526	4,213	0	0	0	0	0	0
Minnesota	11,925	14,581	-18.0%	11,501	14,456	423	90	1	2	0	34
Missouri	14,740	12,830	15.0%	7,655	8,131	6,366	4,060	720	638	0	0
Nebraska	483	624	-23.0%	483	624	0	0	0	0	0	0
North Dakota	1,192	559	113.0%	1,192	559	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	846,298	762,443	11.0%	704,067	638,448	129,968	112,189	0	0	12,263	11,806
Delaware	5,578	6,124	-8.9%	0	0	5,578	6,124	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	396,196	351,397	13.0%	382,474	342,541	12,465	7,456	0	0	1,256	1,400
Georgia	108,790	105,233	3.4%	80,879	80,310	24,919	22,099	0	0	2,992	2,824
Maryland	30,907	32,169	-3.9%	7,837	10,527	23,070	20,693	0	0	0	949
North Carolina	98,181	94,587	3.8%	80,237	78,100	16,824	15,748	0	0	1,120	740
South Carolina	57,944	48,628	19.0%	57,121	46,875	254	1,373	0	0	568	380
Virginia	143,119	120,855	18.0%	95,482	79,534	43,728	37,802	0	0	3,908	3,519
West Virginia	5,585	3,449	62.0%	37	561	3,130	894	0	0	2,418	1,993
East South Central	283,893	271,757	4.5%	198,714	177,756	75,469	84,896	0	0	9,710	9,105
Alabama	104,037	106,245	-2.1%	32,747	34,525	71,290	71,720	0	0	0	0
Kentucky	24,727	28,988	-15.0%	24,395	27,774	331	1,214	0	0	0	0
Mississippi	114,322	97,070	18.0%	110,475	85,109	3,847	11,962	0	0	0	0
Tennessee	40,807	39,453	3.4%	31,097	30,348	0	0	0	0	9,710	9,105
West South Central	876,204	819,552	6.9%	272,541	232,016	389,254	370,258	0	0	214,409	217,278
Arkansas	31,859	36,290	-12.0%	26,251	30,525	4,679	4,795	0	0	929	970
Louisiana	171,466	160,802	6.6%	94,890	77,546	8,215	9,910	0	0	68,361	73,346
Oklahoma	96,766	81,802	18.0%	59,499	50,876	35,450	29,365	0	0	1,817	1,560
Texas	576,113	540,659	6.6%	91,901	73,069	340,910	326,188	0	0	143,302	141,402
Mountain	242,366	221,036	9.7%	204,248	186,028	37,959	34,986	0	0	159	22
Arizona	97,941	88,139	11.0%	74,558	68,895	23,383	19,245	0	0	0	0
Colorado	41,659	36,951	13.0%	35,955	31,560	5,704	5,391	0	0	0	0
Idaho	3,633	2,907	25.0%	3,633	2,907	0	0	0	0	0	0
Montana	749	815	-8.1%	749	815	0	0	0	0	0	0
Nevada	52,030	46,935	11.0%	52,030	46,935	0	0	0	0	0	0
New Mexico	27,998	24,998	12.0%	19,135	14,654	8,863	10,344	0	0	0	0
Utah	17,168	19,562	-12.0%	17,009	19,540	0	0	0	0	159	22
Wyoming	1,190	729	63.0%	1,181	723	9	6	0	0	0	0
Pacific Contiguous	212,880	201,605	5.6%	84,681	74,393	118,506	118,112	0	0	9,693	9,100
California	149,945	147,659	1.5%	53,520	51,397	86,732	87,163	0	0	9,693	9,100
Oregon	41,528	39,002	6.5%	15,945	14,163	25,583	24,839	0	0	0	0
Washington	21,407	14,943	43.0%	15,216	8,832	6,191	6,111	0	0	0	0
Pacific Noncontiguous	102	236	-57.0%	102	236	0	0	0	0	0	0
Alaska	102	236	-57.0%	102	236	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,353,735	3,086,218	8.7%	1,653,221	1,482,219	1,440,931	1,343,140	2,786	3,055	256,797	257,803

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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, April 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019
New England	W	W	W	3.08	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	3.08	--	--	3.08	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.84	1.85	-0.5%	3.37	--	1.78	1.85
New Jersey	W	W	W	--	--	W	W
New York	--	--	--	--	--	--	--
Pennsylvania	W	W	W	3.37	--	W	W
East North Central	1.88	1.98	-5.1%	2.01	2.12	1.71	1.78
Illinois	1.54	1.81	-15.0%	1.52	1.96	1.55	1.76
Indiana	W	W	W	2.05	2.15	W	W
Michigan	W	W	W	2.06	2.09	W	W
Ohio	W	W	W	1.86	1.85	W	W
Wisconsin	2.15	2.22	-3.2%	2.15	2.22	--	--
West North Central	1.57	1.63	-3.7%	1.57	1.63	--	--
Iowa	1.49	1.54	-3.2%	1.49	1.54	--	--
Kansas	1.74	1.65	5.5%	1.74	1.65	--	--
Minnesota	1.98	1.99	-0.5%	1.98	1.99	--	--
Missouri	1.57	1.74	-9.8%	1.57	1.74	--	--
Nebraska	1.24	1.21	2.5%	1.24	1.21	--	--
North Dakota	1.67	1.56	7.1%	1.67	1.56	--	--
South Dakota	1.82	1.68	8.3%	1.82	1.68	--	--
South Atlantic	W	2.58	W	2.48	2.62	W	2.24
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.52	2.94	-14.0%	2.52	2.94	--	--
Georgia	2.72	2.69	1.1%	2.72	2.69	--	--
Maryland	W	2.64	W	--	--	W	2.64
North Carolina	W	W	W	2.52	2.78	W	W
South Carolina	3.17	3.37	-5.9%	3.17	3.37	--	--
Virginia	2.51	W	W	2.51	2.75	--	W
West Virginia	W	W	W	2.14	2.12	W	W
East South Central	W	W	W	2.00	2.12	W	W
Alabama	2.10	2.38	-12.0%	2.10	2.38	--	--
Kentucky	1.94	1.93	0.5%	1.94	1.93	--	--
Mississippi	W	W	W	3.26	3.46	W	W
Tennessee	1.88	2.24	-16.0%	1.88	2.24	--	--
West South Central	1.76	1.96	-10.0%	2.02	2.19	1.56	1.69
Arkansas	W	W	W	1.88	2.13	W	W
Louisiana	2.99	W	W	2.99	3.66	--	W
Oklahoma	W	1.69	W	1.44	1.69	W	--
Texas	W	W	W	1.98	2.04	W	W
Mountain	W	W	W	1.89	2.16	W	W
Arizona	2.11	2.57	-18.0%	2.11	2.57	--	--
Colorado	1.73	1.85	-6.5%	1.73	1.85	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.28	1.91	W	W
Nevada	W	W	W	2.50	2.45	W	W
New Mexico	2.49	2.71	-8.1%	2.49	2.71	--	--
Utah	2.04	1.96	4.1%	2.04	1.96	--	--
Wyoming	W	W	W	1.55	1.98	W	W
Pacific Contiguous	W	W	W	2.19	2.19	W	W
California	--	--	--	--	--	--	--
Oregon	2.19	2.19	0.0%	2.19	2.19	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.51	3.32	W	W
Alaska	3.51	3.32	5.7%	3.51	3.32	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	1.92	2.06	-6.8%	1.98	2.13	1.71	1.84

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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) April 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	W	W	W	3.12	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	3.12	--	--	3.12	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.80	2.02	-11.0%	2.99	--	1.79	2.02
New Jersey	W	W	W	--	--	W	W
New York	--	W	W	--	--	--	W
Pennsylvania	W	1.95	W	2.99	--	W	1.95
East North Central	1.91	2.00	-4.5%	2.04	2.13	1.75	1.83
Illinois	W	1.82	W	1.64	1.99	W	1.78
Indiana	W	W	W	2.11	2.15	W	W
Michigan	W	W	W	2.01	2.08	W	W
Ohio	1.78	W	W	1.85	1.87	1.78	W
Wisconsin	2.10	2.24	-6.3%	2.10	2.24	--	--
West North Central	1.56	1.64	-4.9%	1.56	1.64	--	--
Iowa	1.51	1.57	-3.8%	1.51	1.57	--	--
Kansas	1.62	1.65	-1.8%	1.62	1.65	--	--
Minnesota	1.99	2.05	-2.9%	1.99	2.05	--	--
Missouri	1.58	1.71	-7.6%	1.58	1.71	--	--
Nebraska	1.24	1.21	2.5%	1.24	1.21	--	--
North Dakota	1.58	1.55	1.9%	1.58	1.55	--	--
South Dakota	1.92	1.85	3.8%	1.92	1.85	--	--
South Atlantic	2.48	2.66	-6.8%	2.51	2.70	2.06	2.37
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.57	2.91	-12.0%	2.57	2.91	--	--
Georgia	2.75	2.72	1.1%	2.75	2.72	--	--
Maryland	W	2.73	W	--	--	W	2.73
North Carolina	W	W	W	2.60	3.11	W	W
South Carolina	3.12	3.28	-4.9%	3.12	3.28	--	--
Virginia	2.49	W	W	2.49	2.79	--	W
West Virginia	W	W	W	2.13	2.12	W	W
East South Central	W	W	W	1.94	2.10	W	W
Alabama	2.03	2.33	-13.0%	2.03	2.33	--	--
Kentucky	1.89	1.95	-3.1%	1.89	1.95	--	--
Mississippi	W	W	W	2.89	3.25	W	W
Tennessee	1.95	2.27	-14.0%	1.95	2.27	--	--
West South Central	1.81	1.93	-6.2%	2.00	2.13	1.63	1.67
Arkansas	W	W	W	1.89	2.05	W	W
Louisiana	W	W	W	2.77	3.10	W	W
Oklahoma	W	W	W	1.53	1.78	W	W
Texas	1.72	W	W	1.96	2.07	1.58	W
Mountain	W	W	W	1.95	2.14	W	W
Arizona	2.15	2.62	-18.0%	2.15	2.62	--	--
Colorado	1.71	1.81	-5.5%	1.71	1.81	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.29	1.96	W	W
Nevada	W	W	W	2.54	2.81	W	W
New Mexico	2.53	2.48	2.0%	2.53	2.48	--	--
Utah	2.07	1.99	4.0%	2.07	1.99	--	--
Wyoming	W	W	W	1.65	1.92	W	W
Pacific Contiguous	W	W	W	2.18	2.18	W	W
California	--	--	--	--	--	--	--
Oregon	2.18	2.18	0.0%	2.18	2.18	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.74	3.45	W	W
Alaska	3.74	3.45	8.4%	3.74	3.45	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	1.92	2.07	-7.2%	1.97	2.15	1.77	1.87

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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, April 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019
New England	W	W	W	--	18.42	W	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	--	W	--	--	W	--
New Hampshire	--	18.42	--	--	18.42	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	8.39	16.57	-49.0%	--	--	8.39	16.57
New Jersey	W	--	W	--	--	W	--
New York	W	18.11	W	--	--	W	18.11
Pennsylvania	W	16.14	W	--	--	W	16.14
East North Central	W	16.71	W	7.66	15.70	W	17.81
Illinois	8.51	16.24	-48.0%	--	--	8.51	16.24
Indiana	6.96	15.71	-56.0%	6.96	15.71	--	--
Michigan	8.01	15.60	-49.0%	8.01	15.60	--	--
Ohio	W	17.22	W	8.22	15.80	W	18.10
Wisconsin	--	15.01	--	--	15.01	--	--
West North Central	7.39	15.90	-54.0%	7.39	15.90	--	--
Iowa	7.15	15.77	-55.0%	7.15	15.77	--	--
Kansas	7.51	16.05	-53.0%	7.51	16.05	--	--
Minnesota	--	16.36	--	--	16.36	--	--
Missouri	6.97	15.86	-56.0%	6.97	15.86	--	--
Nebraska	--	15.90	--	--	15.90	--	--
North Dakota	8.09	15.87	-49.0%	8.09	15.87	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	W	W	W	7.48	15.75	W	W
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	8.46	16.19	-48.0%	8.46	16.19	--	--
Georgia	7.93	15.40	-49.0%	7.93	15.40	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	6.61	15.67	-58.0%	6.61	15.67	--	--
South Carolina	7.71	15.97	-52.0%	7.71	15.97	--	--
Virginia	--	W	W	--	14.84	--	W
West Virginia	7.36	16.87	-56.0%	7.36	16.87	--	--
East South Central	7.31	15.51	-53.0%	7.31	15.51	--	--
Alabama	8.58	16.04	-47.0%	8.58	16.04	--	--
Kentucky	7.23	15.38	-53.0%	7.23	15.38	--	--
Mississippi	9.16	15.04	-39.0%	9.16	15.04	--	--
Tennessee	7.05	16.48	-57.0%	7.05	16.48	--	--
West South Central	W	W	W	7.79	14.82	W	W
Arkansas	W	W	W	8.07	15.55	W	W
Louisiana	--	--	--	--	--	--	--
Oklahoma	7.67	15.80	-51.0%	7.67	15.80	--	--
Texas	7.41	W	W	7.41	13.50	--	W
Mountain	W	W	W	12.31	18.42	W	W
Arizona	11.17	18.87	-41.0%	11.17	18.87	--	--
Colorado	--	18.30	--	--	18.30	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	W	W	--	--	--	W
Nevada	W	15.76	W	13.48	15.76	W	--
New Mexico	13.38	19.66	-32.0%	13.38	19.66	--	--
Utah	8.28	17.34	-52.0%	8.28	17.34	--	--
Wyoming	14.51	16.92	-14.0%	14.51	16.92	--	--
Pacific Contiguous	W	--	W	--	--	W	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	--	W	--	--	W	--
Pacific Noncontiguous	W	W	W	8.33	14.22	W	W
Alaska	10.17	15.54	-35.0%	10.17	15.54	--	--
Hawaii	W	W	W	8.32	14.22	W	W
U.S. Total	8.44	14.91	-43.0%	8.46	14.71	8.39	15.69

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

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

Table 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) April 2020 and 2019 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	11.47	W	W	17.38	17.72	11.20	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	17.38	17.72	-1.9%	17.38	17.72	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	9.90	12.80	-23.0%	--	12.15	9.90	13.69
New Jersey	W	W	W	--	--	W	W
New York	13.31	12.69	4.9%	--	12.15	13.31	15.05
Pennsylvania	W	W	W	--	--	W	W
East North Central	W	15.37	W	10.97	14.91	W	16.00
Illinois	13.01	W	W	13.43	15.97	12.99	W
Indiana	11.23	14.90	-25.0%	11.23	14.90	--	--
Michigan	10.57	13.76	-23.0%	10.57	13.76	--	--
Ohio	W	15.60	W	11.68	15.73	W	15.52
Wisconsin	W	W	W	10.04	14.80	W	W
West North Central	10.43	14.67	-29.0%	10.43	14.67	--	--
Iowa	10.33	15.01	-31.0%	10.33	15.01	--	--
Kansas	10.39	15.09	-31.0%	10.39	15.09	--	--
Minnesota	12.74	15.08	-16.0%	12.74	15.08	--	--
Missouri	9.88	14.48	-32.0%	9.88	14.48	--	--
Nebraska	13.12	14.71	-11.0%	13.12	14.71	--	--
North Dakota	10.89	14.07	-23.0%	10.89	14.07	--	--
South Dakota	8.82	--	--	8.82	--	--	--
South Atlantic	12.33	15.06	-18.0%	12.36	15.14	10.58	13.90
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	11.05	16.01	-31.0%	11.05	16.01	--	--
Georgia	W	W	W	12.36	14.33	W	W
Maryland	W	W	W	--	--	W	W
North Carolina	12.68	14.69	-14.0%	12.68	14.69	--	--
South Carolina	11.85	15.31	-23.0%	11.85	15.31	--	--
Virginia	W	W	W	14.35	13.83	W	W
West Virginia	12.51	15.57	-20.0%	12.51	15.57	--	--
East South Central	11.59	W	W	11.59	14.48	--	W
Alabama	9.62	W	W	9.62	14.99	--	W
Kentucky	11.46	14.53	-21.0%	11.46	14.53	--	--
Mississippi	11.40	14.44	-21.0%	11.40	14.44	--	--
Tennessee	12.02	14.24	-16.0%	12.02	14.24	--	--
West South Central	10.43	W	W	10.39	14.67	10.55	W
Arkansas	W	W	W	10.37	15.19	W	W
Louisiana	14.54	--	--	14.54	--	--	--
Oklahoma	8.54	15.60	-45.0%	8.54	15.60	--	--
Texas	W	W	W	11.99	13.83	W	W
Mountain	14.20	W	W	14.15	16.58	15.88	W
Arizona	14.13	15.73	-10.0%	14.13	15.73	--	--
Colorado	12.13	17.36	-30.0%	12.13	17.36	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	16.17	14.82	W	W
New Mexico	15.02	18.36	-18.0%	15.02	18.36	--	--
Utah	W	17.58	W	13.83	17.58	W	--
Wyoming	14.01	16.15	-13.0%	14.01	16.15	--	--
Pacific Contiguous	W	W	W	--	16.52	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	16.52	W	W
Pacific Noncontiguous	W	W	W	11.67	13.17	W	W
Alaska	13.95	15.54	-10.0%	13.95	15.54	--	--
Hawaii	W	W	W	11.66	13.17	W	W
U.S. Total	11.66	13.63	-14.0%	11.71	13.61	11.43	13.69

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

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

Table 4.12.A. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, April 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.36	1.89	-28.0%	1.36	1.89	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.22	--	--	1.22	--	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.89	1.89	0.0%	1.89	1.89	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	--	2.84	--	--	2.84	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	--	2.84	--	--	2.84	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.38	2.70	-49.0%	1.38	2.70	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.38	2.70	-49.0%	1.38	2.70	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.38	2.71	-49.0%	1.38	2.71	--	--

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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) April 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.31	1.68	-22.0%	1.31	1.68	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.20	1.57	-24.0%	1.20	1.57	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.88	1.89	-0.5%	1.88	1.89	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.87	2.73	-32.0%	1.87	2.73	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.87	2.73	-32.0%	1.87	2.73	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.35	2.25	-40.0%	1.35	2.25	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.35	2.25	-40.0%	1.35	2.25	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.45	2.33	-38.0%	1.45	2.33	--	--

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

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

Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State, April 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2020	April 2019	Percentage Change	April 2020	April 2019	April 2020	April 2019
New England	W	W	W	--	3.68	W	W
Connecticut	1.76	2.71	-35.0%	--	--	1.76	2.71
Maine	--	W	W	--	--	--	W
Massachusetts	W	4.56	W	--	2.83	W	4.57
New Hampshire	W	W	W	--	9.83	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.59	2.53	-37.0%	1.65	2.72	1.58	2.51
New Jersey	1.63	2.52	-35.0%	--	--	1.63	2.52
New York	1.66	2.68	-38.0%	1.65	2.72	1.66	2.67
Pennsylvania	1.55	2.42	-36.0%	--	--	1.55	2.42
East North Central	1.82	2.63	-31.0%	1.99	2.70	1.73	2.58
Illinois	W	2.63	W	1.80	2.67	W	2.62
Indiana	1.83	2.66	-31.0%	1.92	2.70	1.77	2.62
Michigan	1.84	2.68	-31.0%	1.88	2.80	1.83	2.63
Ohio	1.67	2.52	-34.0%	1.71	2.50	1.66	2.53
Wisconsin	W	2.76	W	2.22	2.76	W	--
West North Central	W	W	W	1.94	2.49	W	W
Iowa	1.68	2.31	-27.0%	1.68	2.31	--	--
Kansas	2.30	2.68	-14.0%	2.30	2.68	--	--
Minnesota	W	W	W	2.15	2.83	W	W
Missouri	W	W	W	1.75	2.16	W	W
Nebraska	3.46	3.38	2.4%	3.46	3.38	--	--
North Dakota	2.07	2.68	-23.0%	2.07	2.68	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.68	3.60	-26.0%	2.81	3.72	1.87	2.83
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	2.94	3.90	W	W
Georgia	W	W	W	2.26	3.07	W	W
Maryland	W	2.99	W	2.36	3.50	W	2.87
North Carolina	W	W	W	3.92	3.81	W	W
South Carolina	2.63	3.36	-22.0%	2.63	3.36	--	--
Virginia	2.05	3.31	-38.0%	2.18	3.75	1.64	2.69
West Virginia	W	W	W	1.67	2.71	W	W
East South Central	2.26	2.97	-24.0%	2.25	3.04	2.31	2.81
Alabama	W	W	W	2.33	3.06	W	W
Kentucky	W	W	W	2.98	3.50	W	W
Mississippi	W	W	W	2.06	2.87	W	W
Tennessee	2.31	3.31	-30.0%	2.31	3.31	--	--
West South Central	1.80	2.53	-29.0%	1.80	2.54	1.80	2.52
Arkansas	W	W	W	1.91	2.69	W	W
Louisiana	W	W	W	1.93	2.79	W	W
Oklahoma	W	W	W	1.85	2.69	W	W
Texas	1.76	2.43	-28.0%	1.60	1.92	1.81	2.54
Mountain	1.89	2.12	-11.0%	1.86	2.14	2.26	2.01
Arizona	W	W	W	1.63	1.34	W	W
Colorado	W	W	W	2.58	3.29	W	W
Idaho	--	--	--	--	--	--	--
Montana	1.58	0.84	88.0%	1.58	0.84	--	--
Nevada	2.08	2.91	-29.0%	2.08	2.91	--	--
New Mexico	0.75	0.49	53.0%	0.75	0.49	--	--
Utah	1.87	3.00	-38.0%	1.87	3.00	--	--
Wyoming	W	W	W	2.18	3.37	W	W
Pacific Contiguous	2.21	2.97	-26.0%	2.35	3.08	2.09	2.85
California	2.24	3.20	-30.0%	2.65	3.33	1.93	3.07
Oregon	W	W	W	1.55	1.99	W	W
Washington	W	W	W	2.32	3.47	W	W
Pacific Noncontiguous	7.86	7.87	-0.1%	7.86	7.87	--	--
Alaska	7.86	7.87	-0.1%	7.86	7.87	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.12	2.90	-27.0%	2.34	3.09	1.79	2.63

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

Table 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) April 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2020 YTD	April 2019 YTD	Percentage Change	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	W	W	W	11.36	8.46	W	W
Connecticut	2.73	4.74	-42.0%	--	--	2.73	4.74
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	7.74	W	W
New Hampshire	W	W	W	11.36	10.84	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.00	3.43	-42.0%	3.02	4.81	1.91	3.31
New Jersey	2.15	3.60	-40.0%	--	--	2.15	3.60
New York	2.41	4.18	-42.0%	3.02	4.81	2.15	3.91
Pennsylvania	1.77	2.98	-41.0%	--	--	1.77	2.98
East North Central	1.93	3.01	-36.0%	2.11	3.18	1.84	2.92
Illinois	W	3.19	W	1.90	3.30	W	3.18
Indiana	1.98	3.01	-34.0%	2.13	3.13	1.88	2.94
Michigan	1.96	3.03	-35.0%	2.09	3.21	1.91	2.97
Ohio	1.78	2.85	-38.0%	1.78	2.97	1.78	2.83
Wisconsin	W	3.30	W	2.28	3.30	W	--
West North Central	W	W	W	2.14	3.25	W	W
Iowa	1.88	2.98	-37.0%	1.88	2.98	--	--
Kansas	2.38	4.01	-41.0%	2.38	4.01	--	--
Minnesota	W	W	W	2.36	3.49	W	W
Missouri	W	W	W	1.88	2.95	W	W
Nebraska	5.01	3.69	36.0%	5.01	3.69	--	--
North Dakota	2.57	4.41	-42.0%	2.57	4.41	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.90	4.02	-28.0%	3.03	4.13	2.05	3.25
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.10	4.29	W	W
Georgia	W	W	W	2.34	3.43	W	W
Maryland	2.36	W	W	2.43	4.17	2.33	W
North Carolina	W	W	W	3.43	4.17	W	W
South Carolina	2.70	3.58	-25.0%	2.70	3.58	--	--
Virginia	2.85	4.09	-30.0%	3.20	4.42	1.75	3.06
West Virginia	W	2.95	W	2.02	3.11	W	2.85
East South Central	2.37	3.26	-27.0%	2.42	3.32	2.20	3.09
Alabama	W	W	W	2.42	3.32	W	W
Kentucky	W	W	W	3.24	3.82	W	W
Mississippi	W	W	W	2.23	3.19	W	W
Tennessee	2.43	3.24	-25.0%	2.43	3.24	--	--
West South Central	1.87	2.87	-35.0%	1.90	2.91	1.84	2.84
Arkansas	W	W	W	1.99	2.98	W	W
Louisiana	W	W	W	2.06	3.07	W	W
Oklahoma	W	W	W	1.91	3.06	W	W
Texas	1.81	2.80	-35.0%	1.69	2.62	1.85	2.85
Mountain	2.25	3.33	-32.0%	2.21	3.31	2.62	3.53
Arizona	W	W	W	1.92	2.40	W	W
Colorado	W	W	W	2.64	3.57	W	W
Idaho	2.25	8.11	-72.0%	2.25	8.11	--	--
Montana	1.49	2.18	-32.0%	1.49	2.18	--	--
Nevada	2.65	4.13	-36.0%	2.65	4.13	--	--
New Mexico	1.00	1.69	-41.0%	1.00	1.69	--	--
Utah	2.56	4.27	-40.0%	2.56	4.27	--	--
Wyoming	W	W	W	1.89	3.20	W	W
Pacific Contiguous	2.68	4.78	-44.0%	2.79	5.00	2.56	4.59
California	2.81	4.95	-43.0%	3.07	5.49	2.59	4.53
Oregon	W	W	W	1.95	3.25	W	W
Washington	W	W	W	2.81	5.30	W	W
Pacific Noncontiguous	7.87	7.75	1.5%	7.87	7.75	--	--
Alaska	7.87	7.75	1.5%	7.87	7.75	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.35	3.54	-34.0%	2.56	3.70	2.05	3.33

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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, April 2020

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	27	2.82	7.6	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	0.60	5.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	24	3.11	7.9	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	44	2.05	7.7	0	--	--	0	--	--
New Jersey	23	1.97	7.7	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	21	2.15	7.7	0	--	--	0	--	--
East North Central	3,396	3.15	11.5	2,756	0.22	4.7	0	--	--
Illinois	779	3.39	23.2	1,223	0.21	4.6	0	--	--
Indiana	1,490	2.84	9.1	152	0.21	4.4	0	--	--
Michigan	120	2.14	7.0	444	0.24	4.9	0	--	--
Ohio	979	3.63	8.9	0	--	--	0	--	--
Wisconsin	29	1.54	8.9	938	0.24	4.9	0	--	--
West North Central	45	2.78	9.7	4,688	0.26	4.9	1,389	0.85	10.0
Iowa	18	2.71	9.4	1,079	0.25	4.8	0	--	--
Kansas	10	2.77	11.5	472	0.33	4.8	0	--	--
Minnesota	0	--	--	383	0.40	7.0	0	--	--
Missouri	16	2.86	8.9	1,889	0.24	4.7	0	--	--
Nebraska	0	--	--	822	0.22	4.5	0	--	--
North Dakota	0	--	--	0	--	--	1,389	0.85	10.0
South Dakota	0	--	--	42	0.85	5.1	0	--	--
South Atlantic	3,225	2.33	9.5	190	0.33	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	418	2.70	8.2	0	--	--	0	--	--
Georgia	251	2.54	8.4	190	0.33	4.8	0	--	--
Maryland	63	2.53	14.9	0	--	--	0	--	--
North Carolina	719	1.76	9.0	0	--	--	0	--	--
South Carolina	424	1.77	9.1	0	--	--	0	--	--
Virginia	115	1.15	21.8	0	--	--	0	--	--
West Virginia	1,236	2.77	9.4	0	--	--	0	--	--
East South Central	1,734	2.76	9.2	652	0.28	5.4	245	0.52	14.1
Alabama	109	0.72	9.3	513	0.28	5.5	0	--	--
Kentucky	1,388	2.98	9.4	107	0.26	5.1	0	--	--
Mississippi	24	0.46	7.4	32	0.24	4.7	245	0.52	14.1
Tennessee	213	2.59	8.2	0	--	--	0	--	--
West South Central	45	2.73	10.9	3,730	0.29	5.4	1,723	1.03	16.4
Arkansas	1	0.52	10.5	589	0.22	4.9	0	--	--
Louisiana	40	2.90	9.1	130	0.22	4.4	33	0.60	13.9
Oklahoma	4	0.59	53.7	212	0.20	4.4	0	--	--
Texas	0	--	--	2,799	0.31	5.6	1,689	1.04	16.4
Mountain	1,295	0.61	13.2	4,180	0.51	8.5	19	0.52	9.7
Arizona	0	--	--	558	0.79	11.9	0	--	--
Colorado	53	0.47	10.9	941	0.33	5.9	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	540	0.70	9.7	19	0.52	9.7
Nevada	96	0.42	9.0	58	0.35	6.1	0	--	--
New Mexico	210	0.87	23.3	324	0.85	18.9	0	--	--
Utah	937	0.58	11.9	52	0.93	8.5	0	--	--
Wyoming	0	--	--	1,706	0.39	6.5	0	--	--
Pacific Contiguous	44	0.43	8.4	228	0.42	7.4	0	--	--
California	44	0.43	8.4	0	--	--	0	--	--
Oregon	0	--	--	67	0.26	4.9	0	--	--
Washington	0	--	--	161	0.48	8.4	0	--	--
Pacific Noncontiguous	0	--	--	60	0.54	5.4	17	0.14	9.1
Alaska	0	--	--	0	--	--	17	0.14	9.1
Hawaii	0	--	--	60	0.54	5.4	0	--	--
U.S. Total	9,855	2.46	10.6	16,483	0.33	6.0	3,393	0.92	13.5

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:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2019 and 2020 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, April 2020

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	24	3.11	7.9	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	24	3.11	7.9	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	6	3.21	8.6	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	6	3.21	8.6	0	--	--	0	--	--
East North Central	1,530	2.79	9.1	1,908	0.23	4.8	0	--	--
Illinois	39	2.48	12.4	375	0.20	4.8	0	--	--
Indiana	1,281	2.77	9.2	152	0.21	4.4	0	--	--
Michigan	94	2.45	7.2	444	0.24	4.9	0	--	--
Ohio	101	3.56	8.8	0	--	--	0	--	--
Wisconsin	16	2.32	7.8	938	0.24	4.9	0	--	--
West North Central	26	2.83	9.9	4,519	0.26	4.9	1,389	0.85	10.0
Iowa	0	--	--	958	0.25	5.0	0	--	--
Kansas	10	2.77	11.5	472	0.33	4.8	0	--	--
Minnesota	0	--	--	383	0.40	7.0	0	--	--
Missouri	16	2.86	8.9	1,889	0.24	4.7	0	--	--
Nebraska	0	--	--	774	0.22	4.5	0	--	--
North Dakota	0	--	--	0	--	--	1,389	0.85	10.0
South Dakota	0	--	--	42	0.85	5.1	0	--	--
South Atlantic	3,117	2.35	9.4	190	0.33	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	418	2.70	8.2	0	--	--	0	--	--
Georgia	251	2.54	8.4	190	0.33	4.8	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	698	1.79	9.0	0	--	--	0	--	--
South Carolina	424	1.77	9.1	0	--	--	0	--	--
Virginia	90	1.31	27.7	0	--	--	0	--	--
West Virginia	1,236	2.77	9.4	0	--	--	0	--	--
East South Central	1,704	2.80	9.2	652	0.28	5.4	0	--	--
Alabama	109	0.72	9.3	513	0.28	5.5	0	--	--
Kentucky	1,388	2.98	9.4	107	0.26	5.1	0	--	--
Mississippi	24	0.46	7.4	32	0.24	4.7	0	--	--
Tennessee	184	2.86	8.5	0	--	--	0	--	--
West South Central	40	2.90	9.1	1,920	0.27	4.9	454	1.67	22.1
Arkansas	0	--	--	490	0.22	4.7	0	--	--
Louisiana	40	2.90	9.1	130	0.22	4.4	33	0.60	13.9
Oklahoma	0	--	--	156	0.20	4.5	0	--	--
Texas	0	--	--	1,144	0.31	5.0	421	1.78	22.9
Mountain	1,295	0.61	13.2	3,551	0.49	8.4	19	0.52	9.7
Arizona	0	--	--	558	0.79	11.9	0	--	--
Colorado	53	0.47	10.9	941	0.33	5.9	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	19	0.52	9.7
Nevada	96	0.42	9.0	12	0.42	8.8	0	--	--
New Mexico	210	0.87	23.3	324	0.85	18.9	0	--	--
Utah	937	0.58	11.9	52	0.93	8.5	0	--	--
Wyoming	0	--	--	1,664	0.39	6.5	0	--	--
Pacific Contiguous	0	--	--	67	0.26	4.9	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	67	0.26	4.9	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	17	0.14	9.1
Alaska	0	--	--	0	--	--	17	0.14	9.1
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	7,742	2.27	9.9	12,806	0.33	5.9	1,879	1.02	12.6

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2019 and 2020 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, April 2020

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	3	0.60	5.4	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	0.60	5.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	38	1.88	7.6	0	--	--	0	--	--
New Jersey	23	1.97	7.7	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	15	1.74	7.4	0	--	--	0	--	--
East North Central	1,756	3.49	14.0	793	0.21	4.4	0	--	--
Illinois	643	3.44	26.8	793	0.21	4.4	0	--	--
Indiana	209	3.26	9.0	0	--	--	0	--	--
Michigan	26	0.94	6.2	0	--	--	0	--	--
Ohio	877	3.63	8.9	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	65	2.47	14.6	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	63	2.53	14.9	0	--	--	0	--	--
North Carolina	2	0.69	5.8	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	2.00	16.2	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	245	0.52	14.1
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	245	0.52	14.1
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	4	0.59	53.7	1,810	0.31	6.0	1,268	0.84	14.6
Arkansas	0	--	--	99	0.24	5.6	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	4	0.59	53.7	55	0.20	4.3	0	--	--
Texas	0	--	--	1,655	0.32	6.1	1,268	0.84	14.6
Mountain	0	--	--	629	0.65	9.1	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	540	0.70	9.7	0	--	--
Nevada	0	--	--	45	0.33	5.3	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	43	0.36	5.3	0	--	--
Pacific Contiguous	0	--	--	161	0.48	8.4	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	161	0.48	8.4	0	--	--
Pacific Noncontiguous	0	--	--	60	0.54	5.4	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	60	0.54	5.4	0	--	--
U.S. Total	1,866	3.40	13.8	3,453	0.36	6.3	1,513	0.80	14.6

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2019 and 2020 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, April 2020

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

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2019 and 2020 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, April 2020

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	111	3.12	9.0	55	0.22	5.7	0	--	--
Illinois	97	3.50	8.8	55	0.22	5.7	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	0.37	6.3	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	13	0.50	10.4	0	--	--	0	--	--
West North Central	18	2.71	9.4	169	0.25	4.0	0	--	--
Iowa	18	2.71	9.4	121	0.27	3.8	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	48	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	44	0.75	7.7	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	19	0.76	8.4	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	25	0.74	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	29	1.05	6.7	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	29	1.05	6.7	0	--	--	0	--	--
West South Central	1	0.52	10.5	0	0.20	4.3	0	--	--
Arkansas	1	0.52	10.5	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	0.20	4.3	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	0.43	8.4	0	--	--	0	--	--
California	44	0.43	8.4	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	247	1.86	8.4	224	0.24	4.4	0	--	--

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2019 and 2020 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."

Chapter 5

Sales to Ultimate Consumers, Revenue and Average Price of Electricity to Ultimate Consumers

Table 5.1. Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2010 - April 2020 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	1,378,648	1,352,888	984,298	7,523	3,723,356
2018	1,469,093	1,381,755	1,000,673	7,665	3,859,185
2019	1,435,147	1,354,545	952,149	7,697	3,749,538
Year 2018					
January	148,917	114,925	79,890	745	344,478
February	113,751	102,685	75,661	634	292,732
March	107,218	108,108	81,053	620	296,999
April	95,454	103,331	79,083	599	278,468
May	103,848	113,175	85,638	587	303,248
June	129,913	122,011	85,536	623	338,083
July	153,566	131,522	89,301	634	375,023
August	153,496	134,848	92,106	680	381,131
Sept	128,910	122,033	85,679	640	337,263
October	107,049	116,133	85,301	631	309,114
November	103,790	104,983	81,118	616	290,507
December	123,180	107,998	80,306	655	312,140
Year 2019					
January	133,011	111,433	78,390	673	323,507
February	116,249	101,547	72,568	702	291,066
March	112,140	106,889	77,198	689	296,916
April	89,864	101,960	76,413	614	268,851
May	99,810	110,889	80,657	611	291,967
June	119,519	115,338	80,618	612	316,087
July	153,141	130,429	86,057	646	370,272
August	149,549	130,101	86,345	657	366,651
Sept	131,123	121,318	81,767	681	334,890
October	107,636	114,372	79,939	546	302,493
November	102,167	102,810	75,869	618	281,464
December	120,938	107,459	76,327	650	305,373
Year 2020					
January	123,731	107,715	77,384	714	309,544
February	111,963	102,038	75,626	621	290,248
March	103,973	102,933	77,509	604	285,019
April	97,440	90,587	69,480	451	257,958
Year to Date					
2018	465,341	429,051	315,687	2,599	1,212,677
2019	451,264	421,829	304,569	2,678	1,180,340
2020	437,107	403,273	299,999	2,390	1,142,769
Rolling 12 Months Ending in April					
2019	1,455,017	1,374,533	989,554	7,744	3,826,848
2020	1,420,990	1,335,989	947,578	7,409	3,711,966

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 2018 and prior years are final. Values for 2020 and 2019 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, 2010 - April 2020 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	177,661	144,242	67,691	728	390,322
2018	189,033	147,425	69,218	744	406,420
2019	187,102	144,452	65,033	749	397,337
Year 2018					
January	18,193	12,053	5,543	70	35,859
February	14,364	10,936	5,128	62	30,490
March	13,905	11,365	5,373	58	30,701
April	12,290	10,806	5,194	57	28,347
May	13,625	11,890	5,819	55	31,388
June	16,922	13,223	6,136	64	36,344
July	20,156	14,466	6,540	64	41,226
August	20,351	14,874	6,673	65	41,963
Sept	16,775	13,085	6,038	64	35,962
October	13,751	12,506	5,864	62	32,182
November	13,389	11,069	5,557	60	30,074
December	15,311	11,155	5,353	64	31,883
Year 2019					
January	16,603	11,479	5,155	66	33,303
February	14,803	10,701	4,852	72	30,428
March	14,420	11,174	5,191	64	30,849
April	11,939	10,712	4,984	58	27,693
May	13,316	11,658	5,401	58	30,434
June	15,967	12,553	5,569	62	34,151
July	20,346	14,355	6,186	64	40,950
August	19,931	14,327	6,433	64	40,755
Sept	17,288	13,313	5,808	67	36,476
October	13,818	12,285	5,485	53	31,642
November	13,324	10,813	5,106	59	29,302
December	15,348	11,084	4,863	62	31,356
Year 2020					
January	15,824	11,069	4,902	67	31,862
February	14,384	10,572	4,855	58	29,869
March	13,602	10,715	4,961	59	29,337
April	12,939	9,438	4,457	44	26,877
Year to Date					
2018	58,753	45,160	21,238	247	125,398
2019	57,765	44,065	20,182	261	122,273
2020	56,749	41,794	19,175	228	117,945
Rolling 12 Months Ending in April					
2019	188,045	146,331	68,162	757	403,295
2020	186,086	142,181	64,025	716	393,009

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 2018 and prior years are final. Values for 2020 and 2019 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, 2010 - April 2020 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	12.89	10.66	6.88	9.68	10.48
2018	12.87	10.67	6.92	9.70	10.53
2019	13.04	10.66	6.83	9.73	10.60
Year 2018					
January	12.22	10.49	6.94	9.39	10.41
February	12.63	10.65	6.78	9.78	10.42
March	12.97	10.51	6.63	9.40	10.34
April	12.88	10.46	6.57	9.47	10.18
May	13.12	10.51	6.79	9.39	10.35
June	13.03	10.84	7.17	10.23	10.75
July	13.13	11.00	7.32	10.05	10.99
August	13.26	11.03	7.25	9.50	11.01
Sept	13.01	10.72	7.05	10.05	10.66
October	12.85	10.77	6.87	9.79	10.41
November	12.90	10.54	6.85	9.70	10.35
December	12.43	10.33	6.67	9.71	10.21
Year 2019					
January	12.48	10.30	6.58	9.86	10.29
February	12.73	10.54	6.69	10.29	10.45
March	12.86	10.45	6.72	9.28	10.39
April	13.29	10.51	6.52	9.48	10.30
May	13.34	10.51	6.70	9.49	10.42
June	13.36	10.88	6.91	10.06	10.80
July	13.29	11.01	7.19	9.88	11.06
August	13.33	11.01	7.45	9.72	11.12
Sept	13.18	10.97	7.10	9.84	10.89
October	12.84	10.74	6.86	9.75	10.46
November	13.04	10.52	6.73	9.56	10.41
December	12.69	10.31	6.37	9.52	10.27
Year 2020					
January	12.79	10.28	6.33	9.35	10.29
February	12.85	10.36	6.42	9.42	10.29
March	13.08	10.41	6.40	9.77	10.29
April	13.28	10.42	6.41	9.69	10.42
Year to Date					
2018	12.63	10.53	6.73	9.51	10.34
2019	12.80	10.45	6.63	9.73	10.36
2020	12.98	10.36	6.39	9.54	10.32
Rolling 12 Months Ending in April					
2019	12.92	10.65	6.89	9.78	10.54
2020	13.10	10.64	6.76	9.67	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 2018 and prior years are final. Values for 2020 and 2019 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, April 2020 and 2019 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	3,509	3,197	3,298	3,916	1,105	1,232	35	40	7,948	8,384
Connecticut	936	822	671	902	214	232	8	11	1,829	1,966
Maine	401	369	287	338	182	197	0	0	870	903
Massachusetts	1,450	1,332	1,654	1,915	418	477	26	27	3,547	3,751
New Hampshire	351	325	288	324	139	154	0	0	778	803
Rhode Island	208	195	272	282	52	62	2	2	535	541
Vermont	163	154	127	155	99	111	0	0	389	421
Middle Atlantic	9,551	8,658	9,966	11,525	5,324	5,698	206	309	25,048	26,190
New Jersey	1,947	1,626	2,247	2,736	477	488	20	25	4,691	4,875
New York	3,558	3,391	5,224	5,634	1,292	1,365	160	222	10,233	10,612
Pennsylvania	4,047	3,642	2,496	3,154	3,554	3,845	27	63	10,124	10,703
East North Central	12,867	11,833	11,531	13,559	11,896	14,707	43	50	36,338	40,149
Illinois	2,898	2,747	3,163	3,746	2,915	3,164	39	45	9,014	9,703
Indiana	2,150	2,016	1,446	1,739	2,646	3,400	1	2	6,244	7,157
Michigan	2,522	2,249	2,336	2,903	1,511	2,424	0	1	6,370	7,577
Ohio	3,634	3,260	3,011	3,396	3,159	3,784	3	3	9,807	10,444
Wisconsin	1,662	1,562	1,575	1,773	1,665	1,934	0	0	4,902	5,269
West North Central	7,202	6,610	6,689	7,595	6,650	7,241	3	4	20,545	21,450
Iowa	1,017	868	810	890	1,824	1,999	0	0	3,651	3,757
Kansas	834	766	994	1,140	780	891	0	0	2,608	2,797
Minnesota	1,654	1,555	1,471	1,706	1,447	1,671	1	2	4,572	4,934
Missouri	2,209	2,051	1,944	2,241	819	924	2	2	4,975	5,217
Nebraska	698	648	617	707	786	802	0	0	2,101	2,157
North Dakota	404	349	503	521	789	735	0	0	1,696	1,605
South Dakota	387	373	349	390	205	220	0	0	941	983
South Atlantic	25,210	23,231	21,467	23,919	9,872	11,216	76	101	56,625	58,466
Delaware	341	318	300	331	142	135	0	0	783	785
District of Columbia	165	156	514	588	16	16	24	23	720	783
Florida	9,988	8,677	6,991	7,628	1,290	1,360	6	7	18,275	17,673
Georgia	3,638	3,567	3,012	3,520	2,197	2,583	11	13	8,858	9,683
Maryland	1,807	1,578	1,869	2,119	269	306	22	41	3,968	4,044
North Carolina	3,797	3,630	3,125	3,635	1,726	2,145	1	1	8,649	9,411
South Carolina	1,921	1,891	1,323	1,621	1,910	2,239	0	0	5,154	5,751
Virginia	2,797	2,742	3,833	3,944	1,196	1,259	12	15	7,839	7,960
West Virginia	756	671	500	532	1,125	1,174	0	0	2,380	2,377
East South Central	7,562	7,360	5,927	6,753	6,955	7,792	0	0	20,443	21,904
Alabama	1,976	1,939	1,422	1,661	2,305	2,634	0	0	5,703	6,235
Kentucky	1,676	1,601	1,228	1,406	2,021	2,294	0	0	4,925	5,301
Mississippi	1,180	1,137	913	990	1,273	1,342	0	0	3,367	3,468
Tennessee	2,729	2,682	2,364	2,697	1,356	1,522	0	0	6,448	6,901
West South Central	14,256	12,866	13,698	14,131	14,793	15,238	15	16	42,762	42,251
Arkansas	1,128	1,149	769	858	1,272	1,360	0	0	3,169	3,366
Louisiana	2,041	1,834	1,668	1,805	2,893	2,882	1	1	6,603	6,522
Oklahoma	1,452	1,290	1,219	1,517	1,566	1,656	0	0	4,237	4,463
Texas	9,636	8,593	10,042	9,952	9,062	9,340	14	15	28,753	27,900
Mountain	6,899	6,395	6,584	7,576	6,384	6,538	13	14	19,879	20,524
Arizona	2,283	2,105	1,966	2,272	1,104	1,038	1	1	5,354	5,415
Colorado	1,373	1,293	1,357	1,580	1,248	1,270	8	9	3,985	4,151
Idaho	648	590	445	483	620	597	0	0	1,713	1,670
Montana	452	408	360	407	395	352	0	0	1,207	1,167
Nevada	810	767	801	936	879	969	0	1	2,491	2,673
New Mexico	449	422	610	706	714	717	0	0	1,772	1,845
Utah	651	600	786	908	709	736	4	4	2,151	2,248
Wyoming	233	211	259	285	715	859	0	0	1,206	1,355
Pacific Contiguous	10,009	9,369	11,047	12,535	6,166	6,378	59	79	27,281	28,361
California	5,561	5,186	7,856	8,898	3,365	3,453	48	71	16,829	17,607
Oregon	1,488	1,369	1,139	1,296	947	982	2	2	3,576	3,650
Washington	2,960	2,814	2,053	2,341	1,854	1,943	8	6	6,875	7,104
Pacific Noncontiguous	375	344	380	452	335	374	0	0	1,089	1,171
Alaska	170	151	204	213	98	92	0	0	473	456
Hawaii	205	193	175	239	237	283	0	0	617	715
U.S. Total	97,440	89,864	90,587	101,960	69,480	76,413	451	614	257,958	268,851

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 April 2020 and 2019 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	15,208	15,601	15,452	16,668	4,814	5,046	174	192	35,647	37,508
Connecticut	4,039	4,178	3,519	3,862	904	959	51	61	8,512	9,060
Maine	1,708	1,756	1,305	1,464	835	924	0	0	3,848	4,143
Massachusetts	6,281	6,394	7,721	8,148	1,830	1,869	114	122	15,947	16,533
New Hampshire	1,549	1,573	1,265	1,391	594	611	0	0	3,407	3,575
Rhode Island	905	948	1,043	1,157	208	228	9	9	2,166	2,343
Vermont	725	752	598	647	443	456	0	0	1,767	1,854
Middle Atlantic	41,704	43,910	45,901	50,128	23,280	23,363	1,120	1,364	112,005	118,765
New Jersey	8,045	8,281	11,097	11,977	2,034	2,159	93	104	21,268	22,522
New York	15,635	16,128	23,023	24,077	5,271	5,502	878	1,004	44,808	46,711
Pennsylvania	18,024	19,501	11,781	14,073	15,975	15,703	149	256	45,930	49,533
East North Central	59,289	61,873	54,647	58,111	55,852	59,546	245	252	170,034	179,783
Illinois	13,709	14,411	15,080	16,079	12,988	13,486	222	226	41,999	44,202
Indiana	10,472	11,104	7,003	7,515	12,680	13,495	7	7	30,161	32,122
Michigan	10,878	11,053	11,337	12,205	8,278	9,472	2	2	30,496	32,732
Ohio	16,850	17,696	13,949	14,693	14,549	15,383	14	16	45,362	47,788
Wisconsin	7,381	7,610	7,278	7,620	7,357	7,709	0	0	22,016	22,939
West North Central	34,787	36,549	31,403	33,198	28,389	28,358	16	18	94,594	98,124
Iowa	4,878	5,108	3,861	4,074	7,635	7,571	0	0	16,374	16,753
Kansas	3,875	4,075	4,503	4,824	3,315	3,511	0	0	11,692	12,411
Minnesota	7,585	7,837	7,033	7,396	6,468	6,710	8	9	21,094	21,952
Missouri	11,179	11,800	9,094	9,736	3,514	3,596	8	9	23,795	25,140
Nebraska	3,472	3,709	2,947	3,106	3,273	3,128	0	0	9,692	9,943
North Dakota	1,980	2,092	2,357	2,370	3,297	2,975	0	0	7,633	7,436
South Dakota	1,819	1,929	1,608	1,693	888	867	0	0	4,314	4,489
South Atlantic	108,882	111,481	92,856	96,006	42,879	44,219	439	440	245,056	252,146
Delaware	1,552	1,688	1,304	1,360	597	590	0	0	3,452	3,637
District of Columbia	740	814	2,262	2,484	76	61	109	101	3,187	3,460
Florida	35,951	34,707	28,222	28,615	5,259	5,135	26	28	69,458	68,485
Georgia	17,124	17,254	13,600	14,161	9,611	10,158	52	55	40,386	41,627
Maryland	8,613	9,386	8,446	9,080	1,083	1,191	178	182	18,320	19,839
North Carolina	18,065	18,707	14,354	14,838	8,065	8,369	6	6	40,490	41,919
South Carolina	9,198	9,176	6,250	6,437	8,152	8,680	0	0	23,600	24,293
Virginia	13,842	15,588	16,154	16,581	5,241	5,264	68	67	35,305	37,500
West Virginia	3,798	4,163	2,265	2,451	4,796	4,773	0	0	10,858	11,386
East South Central	36,605	37,912	26,593	27,782	30,275	31,236	0	0	93,472	96,930
Alabama	9,392	9,574	6,393	6,691	10,317	10,685	0	0	26,102	26,950
Kentucky	8,396	8,862	5,710	6,020	8,712	9,063	0	0	22,817	23,945
Mississippi	5,492	5,622	3,884	4,006	5,352	5,355	0	0	14,728	14,983
Tennessee	13,325	13,855	10,607	11,066	5,894	6,132	0	0	29,825	31,052
West South Central	62,903	64,523	57,604	57,331	61,245	60,088	61	62	181,812	182,004
Arkansas	5,763	6,082	3,374	3,567	5,403	5,477	0	0	14,541	15,126
Louisiana	8,853	8,894	7,085	7,293	11,491	11,387	3	4	27,433	27,578
Oklahoma	6,852	7,229	5,405	5,988	6,595	6,237	0	0	18,852	19,454
Texas	41,434	42,319	41,740	40,483	37,755	36,987	57	58	120,986	119,847
Mountain	29,425	29,518	29,064	30,208	26,355	25,768	58	63	84,901	85,556
Arizona	8,831	8,805	8,192	8,595	4,319	4,275	4	3	21,346	21,677
Colorado	6,082	6,044	6,269	6,555	5,210	5,010	35	41	17,595	17,650
Idaho	3,126	3,154	2,039	2,085	2,208	2,126	0	0	7,373	7,365
Montana	2,000	2,111	1,624	1,717	1,489	1,513	0	0	5,113	5,342
Nevada	3,254	3,296	3,568	3,517	3,865	3,807	2	3	10,689	10,622
New Mexico	2,109	2,111	2,711	2,794	2,988	2,713	0	0	7,809	7,618
Utah	2,931	2,889	3,468	3,708	3,037	2,871	17	17	9,453	9,485
Wyoming	1,091	1,107	1,193	1,237	3,239	3,454	0	0	5,522	5,798
Pacific Contiguous	46,668	48,371	47,981	50,572	25,405	25,473	278	285	120,332	124,702
California	25,320	26,393	33,266	35,092	13,987	13,736	233	250	72,806	75,470
Oregon	7,128	7,357	5,277	5,433	3,829	3,792	9	9	16,242	16,591
Washington	14,220	14,621	9,439	10,047	7,589	7,946	37	26	31,284	32,640
Pacific Noncontiguous	1,636	1,526	1,772	1,825	1,506	1,471	0	0	4,915	4,822
Alaska	792	731	924	922	429	391	0	0	2,145	2,045
Hawaii	845	795	848	903	1,078	1,080	0	0	2,770	2,777
U.S. Total	437,107	451,264	403,273	421,829	299,999	304,569	2,390	2,678	1,142,769	1,180,340

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, April 2020 and 2019 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	773	700	533	637	140	161	3	4	1,449	1,502
Connecticut	220	192	127	160	29	33	1	2	378	386
Maine	67	66	36	43	16	19	0	0	120	129
Massachusetts	337	304	260	310	58	68	1	1	655	684
New Hampshire	68	67	44	53	18	20	0	0	130	140
Rhode Island	49	44	44	47	8	10	0	0	102	101
Vermont	32	27	21	25	11	12	0	0	64	63
Middle Atlantic	1,483	1,377	1,184	1,360	336	374	24	33	3,027	3,144
New Jersey	310	267	272	338	47	50	2	2	631	657
New York	616	594	692	740	69	75	20	26	1,397	1,435
Pennsylvania	557	516	219	282	221	249	2	5	999	1,052
East North Central	1,769	1,636	1,189	1,398	796	1,024	3	4	3,757	4,061
Illinois	398	388	292	345	186	211	3	3	879	947
Indiana	271	262	160	193	186	255	0	0	617	710
Michigan	407	347	274	325	117	174	0	0	798	846
Ohio	445	407	291	340	183	237	0	0	920	984
Wisconsin	248	232	172	195	125	147	0	0	544	574
West North Central	846	795	636	711	468	498	0	0	1,950	2,004
Iowa	130	115	87	85	113	110	0	0	329	310
Kansas	109	102	104	118	54	64	0	0	267	284
Minnesota	218	208	153	179	112	129	0	0	483	517
Missouri	227	216	159	182	48	56	0	0	434	455
Nebraska	77	74	56	63	59	60	0	0	192	197
North Dakota	41	37	45	47	66	61	0	0	152	145
South Dakota	45	43	33	36	16	17	0	0	94	96
South Atlantic	3,040	2,851	1,997	2,268	609	680	6	8	5,653	5,807
Delaware	44	42	29	35	10	11	0	0	83	87
District of Columbia	20	22	62	73	1	1	2	2	87	99
Florida	1,169	1,032	649	724	95	103	1	1	1,914	1,860
Georgia	415	411	300	346	113	139	1	1	829	896
Maryland	239	225	187	217	21	23	2	3	448	469
North Carolina	455	448	279	323	109	121	0	0	843	892
South Carolina	251	247	138	166	110	125	0	0	500	538
Virginia	356	341	305	332	81	87	1	1	744	761
West Virginia	89	83	48	51	68	70	0	0	205	204
East South Central	875	866	639	724	378	445	0	0	1,892	2,035
Alabama	254	259	165	196	133	162	0	0	553	618
Kentucky	187	175	129	140	102	119	0	0	417	434
Mississippi	138	136	97	106	70	79	0	0	305	321
Tennessee	296	295	248	281	73	85	0	0	616	662
West South Central	1,644	1,486	1,082	1,148	736	792	1	1	3,463	3,426
Arkansas	120	115	68	74	69	77	0	0	257	266
Louisiana	189	176	143	161	131	155	0	0	463	492
Oklahoma	149	144	92	110	65	75	0	0	306	329
Texas	1,185	1,050	780	803	471	485	1	1	2,437	2,339
Mountain	816	766	618	705	367	390	1	1	1,802	1,862
Arizona	292	273	199	231	60	63	0	0	551	566
Colorado	167	156	138	157	86	91	1	1	391	405
Idaho	62	59	34	38	35	34	0	0	130	130
Montana	51	46	38	43	18	18	0	0	106	106
Nevada	96	95	61	70	41	50	0	0	197	216
New Mexico	57	52	59	66	38	39	0	0	154	157
Utah	67	62	65	73	40	41	0	0	173	176
Wyoming	26	24	26	28	49	55	0	0	100	107
Pacific Contiguous	1,589	1,361	1,463	1,646	547	529	5	7	3,604	3,543
California	1,138	936	1,179	1,325	402	378	4	6	2,724	2,645
Oregon	164	151	104	117	56	61	0	0	324	330
Washington	286	274	180	204	88	90	1	1	556	568
Pacific Noncontiguous	105	101	96	116	79	92	0	0	280	309
Alaska	38	35	39	43	15	17	0	0	92	95
Hawaii	67	67	57	72	64	75	0	0	188	214
U.S. Total	12,939	11,939	9,438	10,712	4,457	4,984	44	58	26,877	27,693

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.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through April 2020 and 2019 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	3,318	3,370	2,505	2,783	613	674	19	21	6,455	6,849
Connecticut	931	937	612	678	124	136	8	10	1,674	1,762
Maine	286	311	165	195	76	92	0	0	527	597
Massachusetts	1,444	1,458	1,259	1,371	256	276	10	9	2,969	3,115
New Hampshire	304	318	197	229	77	83	0	0	578	630
Rhode Island	212	219	174	208	33	38	2	2	420	467
Vermont	141	127	98	102	48	49	0	0	287	278
Middle Atlantic	6,456	6,732	5,383	5,826	1,475	1,561	122	150	13,437	14,269
New Jersey	1,270	1,329	1,323	1,445	201	219	8	9	2,801	3,003
New York	2,716	2,791	3,045	3,141	280	308	104	122	6,146	6,362
Pennsylvania	2,470	2,612	1,014	1,239	995	1,034	11	20	4,490	4,905
East North Central	7,850	8,102	5,479	5,917	3,657	4,177	17	18	17,003	18,214
Illinois	1,782	1,842	1,343	1,442	836	906	15	16	3,976	4,205
Indiana	1,267	1,356	760	814	855	1,003	1	1	2,883	3,174
Michigan	1,736	1,677	1,301	1,373	600	693	0	0	3,636	3,743
Ohio	1,984	2,139	1,290	1,461	822	989	1	1	4,097	4,590
Wisconsin	1,081	1,088	786	827	545	587	0	0	2,411	2,503
West North Central	3,876	4,002	2,876	3,009	1,976	2,004	1	1	8,730	9,016
Iowa	592	604	381	383	464	456	0	0	1,437	1,442
Kansas	480	494	455	471	234	258	0	0	1,168	1,222
Minnesota	971	1,009	703	750	485	518	1	1	2,159	2,278
Missouri	1,088	1,121	729	777	208	219	1	1	2,026	2,118
Nebraska	355	369	257	268	244	238	0	0	856	875
North Dakota	189	198	202	206	273	250	0	0	665	653
South Dakota	202	207	149	154	68	66	0	0	419	428
South Atlantic	12,910	13,178	8,609	9,071	2,579	2,733	34	35	24,131	25,018
Delaware	196	210	124	138	42	46	0	0	363	394
District of Columbia	94	109	271	307	6	5	10	11	381	431
Florida	4,209	4,128	2,640	2,747	385	394	2	2	7,237	7,272
Georgia	1,913	1,905	1,320	1,365	491	547	2	3	3,727	3,820
Maryland	1,154	1,262	846	948	84	94	13	14	2,096	2,319
North Carolina	2,076	2,155	1,254	1,305	481	502	0	0	3,811	3,962
South Carolina	1,155	1,150	637	659	459	496	0	0	2,251	2,305
Virginia	1,682	1,820	1,305	1,380	346	363	6	5	3,339	3,568
West Virginia	430	439	211	222	285	284	0	0	927	945
East South Central	4,141	4,259	2,861	2,975	1,649	1,780	0	0	8,651	9,014
Alabama	1,182	1,203	737	772	572	616	0	0	2,491	2,591
Kentucky	899	920	584	592	444	484	0	0	1,927	1,996
Mississippi	626	638	414	429	309	321	0	0	1,350	1,388
Tennessee	1,434	1,498	1,125	1,181	323	359	0	0	2,883	3,038
West South Central	7,017	7,107	4,545	4,654	3,084	3,147	4	4	14,650	14,913
Arkansas	581	579	284	308	285	317	0	0	1,151	1,204
Louisiana	802	817	614	647	526	584	0	0	1,942	2,049
Oklahoma	656	696	391	441	278	304	0	0	1,325	1,441
Texas	4,978	5,016	3,255	3,258	1,995	1,943	4	4	10,232	10,220
Mountain	3,389	3,428	2,639	2,787	1,511	1,570	5	6	7,544	7,791
Arizona	1,070	1,094	787	857	232	259	0	0	2,090	2,210
Colorado	726	727	609	645	362	360	3	4	1,700	1,736
Idaho	301	307	151	159	118	119	0	0	570	585
Montana	225	229	168	174	71	93	0	0	465	497
Nevada	390	397	272	273	184	192	0	0	846	863
New Mexico	261	262	261	268	159	150	0	0	681	681
Utah	298	293	278	293	169	168	2	2	747	756
Wyoming	117	119	112	117	217	229	0	0	446	465
Pacific Contiguous	7,340	7,158	6,454	6,584	2,273	2,181	25	25	16,092	15,948
California	5,211	4,984	5,147	5,217	1,684	1,546	20	21	12,062	11,770
Oregon	775	791	472	486	227	243	1	1	1,474	1,521
Washington	1,354	1,383	836	880	362	392	4	2	2,556	2,657
Pacific Noncontiguous	453	428	443	458	357	355	0	0	1,252	1,241
Alaska	176	162	181	183	71	67	0	0	428	413
Hawaii	276	266	262	275	286	288	0	0	824	829
U.S. Total	56,749	57,765	41,794	44,065	19,175	20,182	228	261	117,945	122,273

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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, April 2020 and 2019 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	22.02	21.89	16.15	16.28	12.69	13.11	8.46	9.24	18.23	17.92
Connecticut	23.50	23.35	18.94	17.73	13.71	14.12	16.30	17.16	20.65	19.65
Maine	16.80	17.92	12.64	12.86	8.97	9.71	--	--	13.79	14.24
Massachusetts	23.24	22.86	15.70	16.19	13.77	14.34	5.12	5.37	18.48	18.25
New Hampshire	19.38	20.65	15.31	16.21	12.92	12.98	--	--	16.72	17.39
Rhode Island	23.37	22.37	16.32	16.59	15.74	15.83	22.09	19.12	19.03	18.60
Vermont	19.53	17.19	16.67	15.88	10.82	10.42	--	--	16.38	14.92
Middle Atlantic	15.53	15.91	11.88	11.80	6.31	6.56	11.40	10.75	12.08	12.01
New Jersey	15.93	16.41	12.11	12.36	9.76	10.14	8.95	8.91	13.44	13.47
New York	17.33	17.53	13.25	13.13	5.31	5.47	12.28	11.88	13.65	13.52
Pennsylvania	13.76	14.17	8.79	8.95	6.21	6.49	8.01	7.49	9.87	9.83
East North Central	13.75	13.83	10.31	10.31	6.69	6.96	6.79	7.69	10.34	10.12
Illinois	13.73	14.12	9.24	9.20	6.38	6.66	6.64	7.52	9.75	9.76
Indiana	12.60	13.00	11.06	11.09	7.03	7.50	10.69	11.66	9.88	9.92
Michigan	16.14	15.45	11.71	11.20	7.75	7.17	11.44	10.66	12.53	11.17
Ohio	12.25	12.49	9.67	10.00	5.79	6.27	6.14	7.31	9.38	9.42
Wisconsin	14.89	14.85	10.92	11.02	7.48	7.60	15.48	14.91	11.10	10.90
West North Central	11.75	12.03	9.50	9.36	7.04	6.87	7.21	8.15	9.49	9.34
Iowa	12.74	13.24	10.68	9.54	6.17	5.51	--	--	9.00	8.25
Kansas	13.02	13.35	10.45	10.35	6.98	7.14	--	--	10.23	10.15
Minnesota	13.19	13.38	10.39	10.51	7.71	7.74	7.91	9.86	10.55	10.47
Missouri	10.29	10.53	8.18	8.14	5.87	6.08	6.75	6.45	8.73	8.72
Nebraska	11.05	11.40	9.00	8.89	7.55	7.52	--	--	9.14	9.13
North Dakota	10.20	10.63	8.87	8.96	8.39	8.35	--	--	8.96	9.04
South Dakota	11.57	11.53	9.46	9.36	7.79	7.58	--	--	9.96	9.78
South Atlantic	12.06	12.27	9.30	9.48	6.17	6.07	8.49	8.09	9.98	9.93
Delaware	12.98	13.25	9.59	10.49	7.16	7.81	--	--	10.63	11.15
District of Columbia	12.41	14.29	12.12	12.43	8.22	8.42	9.80	10.41	12.02	12.66
Florida	11.71	11.89	9.29	9.50	7.38	7.57	8.25	8.32	10.48	10.52
Georgia	11.40	11.52	9.97	9.84	5.16	5.36	4.76	4.94	9.36	9.26
Maryland	13.22	14.25	10.00	10.26	7.66	7.67	8.48	7.65	11.30	11.59
North Carolina	11.99	12.34	8.94	8.89	6.30	5.63	8.23	8.29	9.75	9.48
South Carolina	13.07	13.07	10.46	10.22	5.77	5.60	--	--	9.69	9.36
Virginia	12.74	12.43	7.95	8.42	6.81	6.89	9.34	8.18	9.48	9.56
West Virginia	11.81	12.36	9.56	9.57	6.07	6.01	--	--	8.62	8.60
East South Central	11.57	11.76	10.78	10.72	5.43	5.71	--	--	9.25	9.29
Alabama	12.87	13.36	11.63	11.82	5.77	6.15	--	--	9.69	9.91
Kentucky	11.14	10.91	10.49	9.97	5.04	5.18	--	--	8.48	8.18
Mississippi	11.69	12.00	10.62	10.74	5.51	5.87	--	--	9.06	9.27
Tennessee	10.84	11.01	10.49	10.42	5.36	5.60	--	--	9.56	9.59
West South Central	11.53	11.55	7.90	8.12	4.98	5.20	6.67	6.76	8.10	8.11
Arkansas	10.67	10.01	8.83	8.65	5.44	5.63	12.75	12.46	8.12	7.90
Louisiana	9.25	9.62	8.56	8.91	4.54	5.37	7.87	9.66	7.01	7.54
Oklahoma	10.28	11.17	7.53	7.25	4.14	4.54	--	--	7.22	7.38
Texas	12.30	12.22	7.77	8.07	5.20	5.19	6.60	6.55	8.47	8.38
Mountain	11.82	11.98	9.39	9.30	5.75	5.96	9.54	9.11	9.07	9.07
Arizona	12.78	12.95	10.11	10.15	5.44	6.03	8.83	9.01	10.28	10.45
Colorado	12.13	12.09	10.15	9.94	6.90	7.13	8.96	8.51	9.81	9.75
Idaho	9.51	9.93	7.66	7.78	5.59	5.63	--	--	7.61	7.77
Montana	11.23	11.24	10.49	10.50	4.51	5.04	--	--	8.81	9.11
Nevada	11.79	12.42	7.56	7.48	4.65	5.18	11.41	7.50	7.91	8.06
New Mexico	12.61	12.26	9.71	9.31	5.39	5.50	--	--	8.70	8.51
Utah	10.35	10.31	8.22	8.04	5.65	5.51	10.73	10.56	8.02	7.82
Wyoming	11.04	11.20	9.89	9.85	6.84	6.41	--	--	8.30	7.88
Pacific Contiguous	15.87	14.52	13.24	13.13	8.87	8.30	9.05	8.19	13.21	12.49
California	20.47	18.05	15.01	14.89	11.96	10.96	8.87	8.05	16.18	15.02
Oregon	11.02	11.03	9.14	9.06	5.92	6.25	9.37	9.26	9.07	9.04
Washington	9.67	9.72	8.77	8.70	4.77	4.62	10.02	9.38	8.08	7.99
Pacific Noncontiguous	28.00	29.39	25.34	25.57	23.51	24.51	--	--	25.70	26.36
Alaska	22.26	22.93	19.32	20.31	14.78	18.27	--	--	19.43	20.77
Hawaii	32.77	34.45	32.37	30.26	27.15	26.54	--	--	30.50	29.92
U.S. Total	13.28	13.29	10.42	10.51	6.41	6.52	9.69	9.48	10.42	10.30

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 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through April 2020 and 2019 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD	April 2020 YTD	April 2019 YTD
New England	21.82	21.60	16.21	16.70	12.73	13.36	10.95	10.88	18.11	18.26
Connecticut	23.05	22.44	17.38	17.56	13.67	14.20	15.54	16.31	19.67	19.44
Maine	16.75	17.69	12.67	13.31	9.05	9.93	--	--	13.69	14.41
Massachusetts	22.99	22.81	16.31	16.83	13.96	14.77	8.35	7.53	18.62	18.84
New Hampshire	19.61	20.21	15.59	16.44	13.03	13.65	--	--	16.97	17.62
Rhode Island	23.41	23.11	16.66	17.98	15.65	16.72	17.93	19.30	19.39	19.94
Vermont	19.44	16.88	16.29	15.82	10.89	10.74	--	--	16.23	15.00
Middle Atlantic	15.48	15.33	11.73	11.62	6.34	6.68	10.93	11.01	12.00	12.01
New Jersey	15.79	16.05	11.92	12.07	9.86	10.16	8.49	8.67	13.17	13.33
New York	17.37	17.31	13.23	13.05	5.32	5.59	11.82	12.12	13.72	13.62
Pennsylvania	13.70	13.39	8.61	8.81	6.23	6.59	7.24	7.63	9.78	9.90
East North Central	13.24	13.09	10.03	10.18	6.55	7.01	6.98	7.13	10.00	10.13
Illinois	13.00	12.78	8.90	8.97	6.43	6.72	6.88	6.97	9.47	9.51
Indiana	12.10	12.21	10.85	10.83	6.74	7.43	10.45	11.02	9.56	9.88
Michigan	15.95	15.17	11.47	11.25	7.25	7.31	10.93	10.29	11.92	11.43
Ohio	11.78	12.09	9.25	9.94	5.65	6.43	6.13	7.06	9.03	9.61
Wisconsin	14.64	14.30	10.80	10.86	7.40	7.61	14.13	13.58	10.95	10.91
West North Central	11.14	10.95	9.16	9.06	6.96	7.07	7.72	8.06	9.23	9.19
Iowa	12.14	11.82	9.87	9.39	6.08	6.02	--	--	8.78	8.61
Kansas	12.38	12.11	10.10	9.76	7.05	7.33	--	--	9.99	9.85
Minnesota	12.80	12.87	10.00	10.14	7.49	7.72	9.15	9.68	10.24	10.38
Missouri	9.74	9.50	8.01	7.98	5.93	6.08	6.42	6.33	8.51	8.42
Nebraska	10.22	9.95	8.72	8.63	7.45	7.60	--	--	8.83	8.80
North Dakota	9.55	9.46	8.58	8.69	8.29	8.39	--	--	8.71	8.79
South Dakota	11.10	10.75	9.28	9.10	7.68	7.65	--	--	9.72	9.53
South Atlantic	11.86	11.82	9.27	9.45	6.01	6.18	7.71	7.98	9.85	9.92
Delaware	12.65	12.45	9.55	10.16	7.00	7.79	--	--	10.50	10.84
District of Columbia	12.64	13.42	12.00	12.34	8.16	8.47	9.45	10.40	11.97	12.47
Florida	11.71	11.89	9.36	9.60	7.32	7.68	8.11	8.38	10.42	10.62
Georgia	11.17	11.04	9.71	9.64	5.11	5.39	4.48	4.73	9.23	9.18
Maryland	13.40	13.45	10.01	10.45	7.74	7.91	7.29	7.50	11.44	11.69
North Carolina	11.49	11.52	8.74	8.80	5.96	6.00	7.86	8.30	9.41	9.45
South Carolina	12.56	12.54	10.19	10.23	5.63	5.72	--	--	9.54	9.49
Virginia	12.15	11.68	8.08	8.32	6.60	6.90	8.34	8.08	9.46	9.52
West Virginia	11.33	10.54	9.32	9.07	5.95	5.96	--	--	8.53	8.30
East South Central	11.31	11.23	10.76	10.71	5.45	5.70	--	--	9.26	9.30
Alabama	12.58	12.57	11.53	11.54	5.55	5.77	--	--	9.54	9.62
Kentucky	10.71	10.38	10.23	9.84	5.10	5.34	--	--	8.45	8.34
Mississippi	11.41	11.34	10.67	10.72	5.77	5.99	--	--	9.17	9.26
Tennessee	10.76	10.81	10.61	10.68	5.49	5.86	--	--	9.67	9.78
West South Central	11.16	11.02	7.89	8.12	5.04	5.24	6.74	6.71	8.06	8.19
Arkansas	10.09	9.51	8.43	8.64	5.28	5.79	11.40	11.45	7.92	7.96
Louisiana	9.06	9.19	8.67	8.87	4.58	5.13	8.71	9.18	7.08	7.43
Oklahoma	9.57	9.63	7.24	7.37	4.21	4.87	--	--	7.03	7.41
Texas	12.01	11.85	7.80	8.05	5.28	5.25	6.61	6.53	8.46	8.53
Mountain	11.52	11.61	9.08	9.23	5.73	6.09	9.25	9.42	8.89	9.11
Arizona	12.12	12.42	9.61	9.98	5.37	6.06	8.43	8.88	9.79	10.20
Colorado	11.94	12.02	9.71	9.84	6.95	7.19	8.63	9.10	9.66	9.83
Idaho	9.64	9.72	7.43	7.63	5.33	5.59	--	--	7.74	7.94
Montana	11.25	10.87	10.36	10.16	4.80	6.14	--	--	9.09	9.30
Nevada	11.98	12.06	7.62	7.76	4.76	5.05	8.15	7.41	7.91	8.12
New Mexico	12.38	12.41	9.61	9.61	5.32	5.54	--	--	8.72	8.93
Utah	10.18	10.14	8.03	7.89	5.55	5.86	10.84	10.57	7.91	7.97
Wyoming	10.69	10.76	9.40	9.49	6.70	6.62	--	--	8.07	8.02
Pacific Contiguous	15.73	14.80	13.45	13.02	8.95	8.56	8.93	8.70	13.37	12.79
California	20.58	18.89	15.47	14.87	12.04	11.26	8.78	8.61	16.57	15.60
Oregon	10.87	10.75	8.94	8.95	5.92	6.40	9.31	9.09	9.08	9.17
Washington	9.52	9.46	8.86	8.76	4.77	4.93	9.82	9.38	8.17	8.14
Pacific Noncontiguous	27.66	28.05	24.97	25.12	23.67	24.13	--	--	25.46	25.75
Alaska	22.29	22.21	19.54	19.84	16.51	17.22	--	--	19.95	20.18
Hawaii	32.68	33.43	30.89	30.52	26.51	26.63	--	--	29.73	29.84
U.S. Total	12.98	12.80	10.36	10.45	6.39	6.63	9.54	9.73	10.32	10.36

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: 2010 - April 2020

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2010	125,717,935	17,674,338	747,747	239	144,140,259
2011	126,143,072	17,638,062	727,920	92	144,509,146
2012	126,832,343	17,729,029	732,385	83	145,293,840
2013	127,777,153	17,679,562	831,790	75	146,288,580
2014	128,680,416	17,853,995	839,212	79	147,373,702
2015	129,811,718	17,985,690	835,536	78	148,633,022
2016	131,068,760	18,148,353	838,059	86	150,055,258
2017	132,579,747	18,359,427	840,329	86	151,779,589
2018	133,893,321	18,605,393	840,321	83	153,339,118
2019	135,281,297	18,628,622	915,863	82	154,825,863
Year 2018					
January	133,302,446	18,552,003	838,797	82	152,693,328
February	132,923,513	18,440,673	811,940	82	152,176,208
March	133,852,602	18,574,947	822,275	82	153,249,906
April	133,417,773	18,526,543	824,075	82	152,768,473
May	134,121,801	18,613,438	851,023	82	153,586,344
June	133,935,311	18,615,355	858,759	83	153,409,508
July	133,883,159	18,623,955	860,910	83	153,368,107
August	134,433,813	18,686,099	866,859	83	153,986,854
Sept	133,791,062	18,594,023	844,187	83	153,229,355
October	134,377,594	18,717,481	844,839	83	153,939,997
November	134,155,451	18,636,211	823,868	83	153,615,613
December	134,524,109	18,682,871	835,705	83	154,042,768
Year 2019					
January	134,972,174	18,580,112	897,450	82	154,449,818
February	133,461,982	18,478,289	879,263	82	152,819,616
March	135,217,902	18,574,930	884,470	82	154,677,384
April	134,971,489	18,578,316	893,513	83	154,443,401
May	135,484,211	18,649,646	914,451	80	155,048,388
June	135,133,768	18,574,956	920,845	82	154,629,651
July	135,511,673	18,673,405	947,372	82	155,132,532
August	135,592,324	18,660,912	942,782	81	155,196,099
Sept	135,276,670	18,628,637	934,919	81	154,840,307
October	136,222,066	18,757,776	936,342	81	155,916,265
November	135,280,702	18,639,325	909,876	82	154,829,985
December	136,250,600	18,747,157	929,076	82	155,926,915
Year 2020					
January	136,144,897	18,680,499	935,087	82	155,760,565
February	135,425,123	18,619,364	919,229	82	154,963,798
March	136,675,134	18,790,316	936,499	82	156,402,031
April	136,648,590	18,747,305	942,664	82	156,338,641
Rolling 12 Months Ending in April					
2019	134,320,487	18,615,090	861,737	83	153,797,397
2020	135,803,813	18,680,775	930,762	82	155,415,431

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2018 and prior years are final. Values for 2020 and 2019 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: April 2020 and 2019

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	6,463,836	6,384,384	909,246	896,735	19,376	19,953	6	6	7,392,464	7,301,078
Connecticut	1,520,646	1,510,249	154,818	154,467	4,122	4,200	3	3	1,679,589	1,668,919
Maine	724,623	698,926	101,850	97,296	2,735	2,975	0	0	829,208	799,197
Massachusetts	2,830,689	2,801,265	423,439	419,500	7,531	7,723	2	2	3,261,661	3,228,490
New Hampshire	631,313	624,259	108,980	108,279	3,133	3,147	0	0	743,426	735,685
Rhode Island	440,118	433,397	60,786	59,748	1,717	1,767	1	1	502,622	494,913
Vermont	316,447	316,288	59,373	57,445	138	141	0	0	375,958	373,874
Middle Atlantic	16,319,265	16,250,585	2,386,723	2,361,204	32,735	29,036	19	21	18,738,742	18,640,846
New Jersey	3,607,775	3,594,594	531,316	524,201	11,591	11,692	6	7	4,150,688	4,130,494
New York	7,262,774	7,231,296	1,134,389	1,116,947	6,467	6,590	8	8	8,403,638	8,354,841
Pennsylvania	5,448,716	5,424,695	721,018	720,056	14,677	10,754	5	6	6,184,416	6,155,511
East North Central	20,534,412	20,363,348	2,536,814	2,514,475	47,461	46,830	10	10	23,118,697	22,924,663
Illinois	5,359,349	5,335,976	625,031	619,380	3,968	3,991	3	3	5,988,351	5,959,350
Indiana	2,914,018	2,881,826	361,188	357,554	15,926	15,163	1	1	3,291,133	3,254,544
Michigan	4,450,190	4,399,468	553,717	547,722	NM	NM	2	2	5,009,523	4,952,786
Ohio	5,038,893	5,007,825	633,107	630,873	16,931	16,996	2	2	5,688,933	5,655,696
Wisconsin	2,771,962	2,738,253	363,771	358,946	NM	NM	2	2	3,140,757	3,102,287
West North Central	9,719,339	9,609,153	1,484,891	1,470,104	116,615	115,361	3	3	11,320,848	11,194,621
Iowa	1,425,016	1,405,909	249,236	246,633	NM	NM	0	0	1,681,220	1,659,499
Kansas	1,293,330	1,282,104	237,460	235,443	24,791	25,012	0	0	1,555,581	1,542,559
Minnesota	2,467,077	2,431,532	296,369	293,032	NM	NM	1	1	2,772,023	2,732,998
Missouri	2,857,868	2,834,087	387,786	384,023	6,511	6,658	2	2	3,252,167	3,224,770
Nebraska	879,670	866,790	163,090	161,601	57,626	56,357	0	0	1,100,386	1,084,748
North Dakota	384,921	382,252	75,122	74,469	8,999	8,847	0	0	469,042	465,568
South Dakota	411,457	406,479	75,828	74,903	NM	NM	0	0	490,429	484,479
South Atlantic	28,777,518	28,355,010	3,862,667	3,828,559	78,158	78,329	13	13	32,718,356	32,261,911
Delaware	440,895	434,444	55,610	55,271	562	569	0	0	497,067	490,284
District of Columbia	287,943	281,089	26,676	26,438	1	1	3	3	314,623	307,531
Florida	9,705,737	9,566,791	1,264,390	1,253,450	20,330	20,373	2	2	10,990,459	10,840,616
Georgia	4,515,864	4,441,251	592,348	586,973	19,348	19,395	1	1	5,127,561	5,047,620
Maryland	2,373,371	2,350,865	255,630	254,955	8,795	8,774	5	5	2,637,801	2,614,599
North Carolina	4,708,586	4,625,871	710,816	703,195	9,684	9,749	1	1	5,429,087	5,338,816
South Carolina	2,373,881	2,329,145	375,896	370,797	4,177	4,170	0	0	2,753,954	2,704,112
Virginia	3,511,383	3,466,466	435,312	432,341	3,797	3,797	1	1	3,950,493	3,902,605
West Virginia	859,858	859,088	145,989	145,139	11,464	11,501	0	0	1,017,311	1,015,728
East South Central	8,636,973	8,535,501	1,422,510	1,409,130	21,939	22,076	0	0	10,081,422	9,966,707
Alabama	2,303,199	2,274,723	373,010	370,806	8,143	8,170	0	0	2,684,352	2,653,699
Kentucky	2,032,271	2,014,037	310,016	306,199	5,336	5,470	0	0	2,347,623	2,325,706
Mississippi	1,346,643	1,325,993	239,857	239,585	7,598	7,588	0	0	1,594,098	1,573,166
Tennessee	2,954,860	2,920,748	499,627	492,540	862	848	0	0	3,455,349	3,414,136
West South Central	16,574,654	16,392,507	2,244,473	2,236,303	331,100	293,755	6	6	19,150,233	18,922,571
Arkansas	1,419,830	1,406,087	195,342	193,532	30,644	28,927	2	2	1,645,818	1,628,548
Louisiana	2,133,290	2,112,688	296,196	293,496	18,541	18,569	1	1	2,448,028	2,424,754
Oklahoma	1,821,030	1,800,841	289,643	286,654	19,241	18,474	0	0	2,129,914	2,105,969
Texas	11,200,504	11,072,891	1,463,292	1,462,621	262,674	227,785	3	3	12,926,473	12,763,300
Mountain	10,110,047	9,940,795	1,423,978	1,407,342	89,050	87,597	5	5	11,623,080	11,435,739
Arizona	2,882,418	2,830,705	329,162	324,444	NM	6,400	2	2	3,217,540	3,161,551
Colorado	2,394,233	2,358,383	371,968	367,494	NM	14,493	1	1	2,781,065	2,740,371
Idaho	776,218	756,130	113,921	111,716	29,103	28,835	0	0	919,242	896,681
Montana	525,683	517,465	113,694	111,703	NM	NM	0	0	645,924	635,597
Nevada	1,218,162	1,199,385	167,971	165,964	NM	NM	1	1	1,389,566	1,368,760
New Mexico	918,553	909,634	140,832	140,751	NM	8,568	0	0	1,067,963	1,058,953
Utah	1,115,753	1,092,905	127,337	126,411	10,624	9,585	1	1	1,253,715	1,228,902
Wyoming	279,027	276,188	59,093	58,859	9,945	9,877	0	0	348,065	344,924
Pacific Contiguous	18,780,994	18,412,407	2,360,879	2,340,325	203,983	198,361	20	19	21,345,876	20,951,112
California	13,797,847	13,545,386	1,709,801	1,704,646	147,103	142,538	13	12	15,654,764	15,392,582
Oregon	1,804,221	1,773,408	243,897	240,646	26,825	26,528	2	2	2,074,945	2,040,584
Washington	3,178,926	3,093,613	407,181	395,033	30,055	29,295	5	5	3,616,167	3,517,946
Pacific Noncontiguous	731,552	727,799	115,124	114,139	NM	NM	0	0	848,923	844,153
Alaska	291,964	290,178	55,205	54,376	NM	NM	0	0	348,596	345,962
Hawaii	439,588	437,621	59,919	59,763	820	807	0	0	500,327	498,191
U.S. Total	136,648,590	134,971,489	18,747,305	18,578,316	942,664	893,513	82	83	156,338,641	154,443,401

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
NM = Not Meaningful due to large relative standard error or excessive percentage change.
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.

Chapter 6

Capacity

Table 6.1. Electric Generating Summer Capacity Changes (MW), March 2020 to April 2020

		As of End of March 2020	Activity During April 2020 as Reported to EIA		As of End of April 2020	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		Reductions		Planned Net Change		Capacity	
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*	*105,889.5*	*333.2*	*114.9*	*106,107.8*	*218.3*	*2,552.6*	*9,499.0*	*1,591.4*	*22,125.2*	*0.0*	*0.0*	*1,591.4*	*22,125.2*	*107,699.2*	*128,233.0*
..... *Offshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*29.3*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*0.0*	*0.0*	*12.0*	*0.0*	*0.0*	*0.0*	*12.0*	*29.3*	*41.3*
..... Wind (Summer Capacity)	Utility Scale Facilities	105,918.8	333.2	114.9	106,137.1	218.3	2,552.6	9,499.0	1,591.4	22,137.2	0.0	0.0	1,591.4	22,137.2	107,728.5	128,274.3
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*37,438.5*	*585.9*	*107.7*	*37,916.7*	*478.2*	*2,345.5*	*6,471.9*	*857.2*	*11,709.9*	*0.0*	*0.0*	*857.2*	*11,709.9*	*38,773.9*	*49,626.6*
..... *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*	*405.6*	*0.0*	*0.0*	*405.6*	*0.0*	*0.2*	*0.2*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*405.6*	*405.6*
..... Solar Subtotal	Utility Scale Facilities	39,196.6	585.9	107.7	39,674.8	478.2	2,345.7	6,472.1	857.2	11,709.9	0.0	0.0	857.2	11,709.9	40,532.0	51,384.7
..... Conventional Hydroelectric	Utility Scale Facilities	79,787.6	19.3	44.8	79,762.1	-25.5	15.8	-132.9	0.0	305.1	0.0	3.4	0.0	301.7	79,762.1	80,063.8
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,402.9*	*0.1*	*4.9*	*8,398.1*	*-4.8*	*-90.8*	*-169.2*	*0.0*	*0.0*	*0.0*	*20.0*	*0.0*	*-20.0*	*8,398.1*	*8,378.1*
..... *Landfill Gas*	*Utility Scale Facilities*	*1,985.7*	*4.0*	*0.0*	*1,989.7*	*4.0*	*-46.2*	*-67.2*	*0.0*	*3.4*	*15.1*	*84.0*	*-15.1*	*-80.6*	*1,974.6*	*1,909.1*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,125.7*	*0.0*	*0.0*	*2,125.7*	*0.0*	*-63.6*	*-73.6*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*2,125.7*	*2,125.7*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*733.0*	*2.8*	*113.0*	*622.8*	*-110.2*	*-111.2*	*-117.6*	*0.0*	*50.8*	*0.0*	*2.0*	*0.0*	*48.8*	*622.8*	*671.6*
..... Biomass Sources Subtotal	Utility Scale Facilities	13,247.3	6.9	117.9	13,136.3	-111.0	-311.8	-427.6	0.0	54.2	15.1	106.0	-15.1	-51.8	13,121.2	13,084.5
..... Geothermal	Utility Scale Facilities	2,557.7	0.0	0.0	2,557.7	0.0	98.6	98.6	0.0	0.0	0.0	0.0	0.0	0.0	2,557.7	2,557.7
... Renewable Sources Subtotal	***Utility Scale Facilities***	***240,708.0***	***945.3***	***385.3***	***241,268.0***	***560.0***	***4,700.9***	***15,509.2***	***2,448.6***	***34,206.4***	***15.1***	***109.4***	***2,433.5***	***34,097.0***	***243,701.5***	***275,365.0***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*272,636.3*	*1,309.8*	*119.4*	*273,826.7*	*1,190.4*	*3,290.1*	*7,629.3*	*1,820.5*	*3,531.6*	*9.0*	*29.0*	*1,811.5*	*3,502.6*	*275,638.2*	*277,329.3*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*128,842.1*	*54.9*	*73.4*	*128,823.6*	*-18.5*	*-53.2*	*468.0*	*0.0*	*1,654.4*	*12.0*	*399.6*	*-12.0*	*1,254.8*	*128,811.6*	*130,078.4*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*70,547.7*	*139.1*	*255.0*	*70,431.8*	*-115.9*	*-1,520.5*	*-3,574.0*	*0.0*	*18.2*	*132.0*	*308.3*	*-132.0*	*-290.1*	*70,299.8*	*70,141.7*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*5,123.8*	*41.1*	*6.3*	*5,158.6*	*34.8*	*227.3*	*276.1*	*1.1*	*91.3*	*0.0*	*31.1*	*1.1*	*60.2*	*5,159.7*	*5,218.8*
..... *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*	*204.7*	*36.6*	*3.5*	*237.8*	*33.1*	*60.0*	*62.8*	*0.0*	*14.8*	*0.0*	*0.0*	*0.0*	*14.8*	*237.8*	*252.6*
..... Natural Gas Subtotal	Utility Scale Facilities	477,464.6	1,581.5	457.6	478,588.5	1,123.9	2,003.7	4,862.2	1,821.6	5,310.3	153.0	768.0	1,668.6	4,542.3	480,257.1	483,130.8
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*225,043.1*	*66.1*	*46.0*	*225,063.2*	*20.1*	*-3,422.2*	*-11,026.3*	*0.0*	*21.0*	*830.0*	*6,776.4*	*-830.0*	*-6,755.4*	*224,233.2*	*218,307.8*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*756.0*	*0.0*	*0.0*	*756.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*756.0*	*756.0*
..... Coal Subtotal	Utility Scale Facilities	225,799.1	66.1	46.0	225,819.2	20.1	-3,422.2	-11,026.3	0.0	21.0	830.0	6,776.4	-830.0	-6,755.4	224,989.2	219,063.8
..... Petroleum Coke	Utility Scale Facilities	1,452.4	0.0	7.5	1,444.9	-7.5	-20.3	-87.3	0.0	0.0	0.0	0.0	0.0	0.0	1,444.9	1,444.9
..... Petroleum Liquids	Utility Scale Facilities	30,301.7	129.1	33.1	30,397.7	96.0	-234.6	-266.1	5.0	10.1	0.0	26.9	5.0	-16.8	30,402.7	30,380.9
..... Other Gases	Utility Scale Facilities	2,542.5	0.0	0.0	2,542.5	0.0	-6.4	-6.4	0.0	0.0	0.0	0.0	0.0	0.0	2,542.5	2,542.5
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***737,560.3***	***1,776.7***	***544.2***	***738,792.8***	***1,232.5***	***-1,679.8***	***-6,523.9***	***1,826.6***	***5,341.4***	***983.0***	***7,571.3***	***843.6***	***-2,229.9***	***739,636.4***	***736,562.9***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,882.1	18.0	0.0	22,900.1	18.0	21.9	78.9	0.0	182.3	0.0	0.0	0.0	182.3	22,900.1	23,082.4
..... Flywheels	Utility Scale Facilities	47.0	0.0	0.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0	47.0
..... Batteries	Utility Scale Facilities	1,036.0	9.9	0.0	1,045.9	9.9	30.7	102.4	3.8	837.3	0.0	0.0	3.8	837.3	1,049.7	1,883.2
..... Other Energy Storage	Utility Scale Facilities		1.9	0.0	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,965.1***	***29.8***	***0.0***	***23,994.9***	***29.8***	***54.5***	***183.2***	***3.8***	***1,019.6***	***0.0***	***0.0***	***3.8***	***1,019.6***	***23,998.7***	***25,014.5***
... Nuclear	***Utility Scale Facilities***	***98,119.0***	***0.0***	***1,016.1***	***97,102.9***	***-1,016.1***	***-967.3***	***-2,443.7***	***0.0***	***20.0***	***0.0***	***1,639.3***	***0.0***	***-1,619.3***	***97,102.9***	***95,483.6***
... All Other	***Utility Scale Facilities***	***1,731.6***	***0.0***	***0.0***	***1,731.6***	***0.0***	***236.1***	***284.0***	***0.0***	***0.0***	***0.0***	***0.0***	***0.0***	***0.0***	***1,731.6***	***1,731.6***
TOTAL	**UTILITY SCALE FACILITIES**	**1,102,084.0**	**2,751.8**	**1,945.6**	**1,102,890.2**	**806.2**	**2,344.4**	**7,008.8**	**4,279.0**	**40,587.4**	**998.1**	**9,320.0**	**3,280.9**	**31,267.4**	**1,106,171.1**	**1,134,157.6**
..... *Estimated Small Scale Solar Photovoltaic*	*Small Scale Facilities*	*24,258.8*			*24,581.0*	*322.1*	*1,370.1*	*4,019.8*								
..... Estimated Total Solar Photovoltaic	All Facilities	61,697.3			62,497.7	800.3	3,715.6	10,491.7								
... Estimated Total Solar	***All Facilities***	***63,455.4***			***64,255.8***	***800.3***	***3,715.8***	***10,491.9***								

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 - April 2020

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
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	25,209.0	16,147.8	41,356.8
2018	30,120.5	19,547.1	49,667.6
2019	35,571.2	23,210.8	58,782.0
Year 2018			
January	25,968.4	16,647.9	42,616.3
February	26,067.6	16,888.9	42,956.5
March	26,592.1	17,172.4	43,764.5
April	26,859.7	17,431.2	44,290.9
May	27,291.3	17,714.7	45,006.0
June	27,451.7	17,988.5	45,440.2
July	27,590.1	18,239.9	45,830.0
August	27,674.0	18,519.6	46,193.6
Sept	27,989.5	18,780.9	46,770.4
October	28,158.3	19,059.8	47,218.1
November	28,690.2	19,320.0	48,010.2
December	30,120.5	19,547.1	49,667.6
Year 2019			
January	30,924.8	19,727.0	50,651.8
February	31,132.5	19,967.1	51,099.6
March	31,355.3	20,284.2	51,639.5
April	31,444.8	20,561.2	52,006.0
May	31,508.0	20,870.6	52,378.6
June	31,826.6	21,137.2	52,963.8
July	32,053.9	21,473.3	53,527.2
August	32,276.1	21,790.9	54,067.0
Sept	32,491.1	22,102.7	54,593.8
October	32,987.2	22,428.1	55,415.3
November	33,647.2	22,710.0	56,357.2
December	35,571.2	23,210.8	58,782.0
Year 2020			
January	36,613.2	23,582.8	60,196.0
February	37,110.1	23,919.3	61,029.4
March	37,438.5	24,258.8	61,697.3
April	37,916.7	24,581.0	62,497.7

Values are preliminary.
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
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 - April 2020

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	9,626.8	5,155.8	1,365.1	16,147.8
2018	11,720.4	6,271.4	1,555.4	19,547.1
2019	14,228.7	7,185.7	1,796.4	23,210.8
Year 2018				
January	9,817.0	5,460.2	1,370.7	16,647.9
February	9,977.5	5,530.9	1,380.4	16,888.9
March	10,144.5	5,629.9	1,398.0	17,172.4
April	10,301.4	5,712.2	1,417.5	17,431.2
May	10,476.8	5,801.6	1,436.2	17,714.7
June	10,643.5	5,891.0	1,454.0	17,988.5
July	10,810.7	5,967.0	1,462.2	18,239.9
August	10,991.8	6,055.4	1,472.4	18,519.6
Sept	11,157.7	6,132.3	1,491.0	18,780.9
October	11,354.3	6,204.2	1,501.4	19,059.8
November	11,529.1	6,261.2	1,529.7	19,320.0
December	11,720.4	6,271.4	1,555.4	19,547.1
Year 2019				
January	11,898.3	6,249.0	1,579.7	19,727.0
February	12,069.5	6,306.8	1,590.9	19,967.1
March	12,270.7	6,402.5	1,611.1	20,284.2
April	12,454.0	6,467.9	1,639.2	20,561.2
May	12,650.2	6,553.7	1,666.7	20,870.6
June	12,840.4	6,608.8	1,688.0	21,137.2
July	13,089.5	6,686.9	1,696.9	21,473.3
August	13,308.1	6,769.8	1,713.0	21,790.9
Sept	13,525.8	6,841.2	1,735.6	22,102.7
October	13,760.8	6,917.3	1,750.0	22,428.1
November	13,985.3	6,959.3	1,765.4	22,710.0
December	14,228.7	7,185.7	1,796.4	23,210.8
Year 2020				
January	14,491.2	7,270.6	1,821.0	23,582.8
February	14,746.6	7,326.0	1,846.7	23,919.3
March	14,963.4	7,428.8	1,866.6	24,258.8
April	15,182.6	7,528.9	1,869.5	24,581.0

Values are preliminary.
Improved renewable data reporting has resulted in realignment of the commercial and industrial sectors.
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.A. Net Summer Capacity of Utility Scale Units by Technology and by State, April 2020 and 2019 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	6,018.0	5,939.5	24,221.4	23,144.3	1,797.4	1,797.4	67.3	37.8	3,323.5	3,997.1	48.0	48.0	35,475.6	34,964.1
Connecticut	458.7	420.8	7,874.8	7,273.4	29.4	29.4	1.6	1.6	2,073.1	2,073.1	26.0	26.0	10,463.6	9,824.3
Maine	2,230.5	2,347.1	2,499.3	2,478.8	0.0	0.0	16.2	16.2	0.0	0.0	22.0	22.0	4,768.0	4,864.1
Massachusetts	1,516.5	1,425.3	9,576.7	9,124.6	1,768.0	1,768.0	38.6	17.0	0.0	673.6	0.0	0.0	12,899.8	13,008.5
New Hampshire	956.5	928.1	2,289.9	2,289.9	0.0	0.0	0.0	0.0	1,250.4	1,250.4	0.0	0.0	4,496.8	4,468.4
Rhode Island	171.1	150.2	1,835.1	1,832.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,006.2	1,982.3
Vermont	684.7	668.0	145.6	145.5	0.0	0.0	10.9	3.0	0.0	0.0	0.0	0.0	841.2	816.5
Middle Atlantic	11,641.2	11,382.2	73,326.0	72,489.7	3,383.3	3,380.6	143.5	143.5	16,940.5	18,697.9	11.2	11.2	105,445.7	106,105.1
New Jersey	1,121.1	1,033.1	12,239.9	12,157.3	420.0	420.0	42.1	42.1	3,467.1	3,500.2	11.2	11.2	17,301.4	17,163.9
New York	7,545.3	7,487.7	26,982.2	26,910.7	1,411.3	1,408.6	53.0	53.0	4,380.2	5,400.7	0.0	0.0	40,372.0	41,260.7
Pennsylvania	2,974.8	2,861.4	34,103.9	33,421.7	1,552.0	1,552.0	48.4	48.4	9,093.2	9,797.0	0.0	0.0	47,772.3	47,680.5
East North Central	13,805.5	12,914.2	109,109.2	112,155.6	2,249.0	2,174.0	194.7	189.7	19,007.1	19,001.8	187.1	187.1	144,552.6	146,622.4
Illinois	5,734.1	4,966.6	27,062.2	29,056.5	0.0	0.0	132.7	132.7	11,582.4	11,582.4	78.0	78.0	44,589.4	45,816.2
Indiana	2,685.3	2,658.0	23,840.9	23,876.4	0.0	0.0	28.0	23.0	0.0	0.0	88.0	88.0	26,642.2	26,645.4
Michigan	3,065.1	2,993.9	20,046.2	20,215.1	2,249.0	2,174.0	1.0	1.0	4,089.6	4,089.6	0.0	0.0	29,450.9	29,473.6
Ohio	1,193.1	1,058.3	25,213.8	25,946.3	0.0	0.0	33.0	33.0	2,134.0	2,134.0	0.0	0.0	28,573.9	29,171.6
Wisconsin	1,127.9	1,237.4	12,946.1	13,061.3	0.0	0.0	0.0	0.0	1,201.1	1,195.8	21.1	21.1	15,296.2	15,515.6
West North Central	34,048.2	29,910.5	58,779.6	59,181.2	657.0	657.0	20.1	20.1	5,443.4	5,443.4	22.8	22.8	98,971.1	95,235.0
Iowa	10,675.7	8,970.1	9,766.7	9,808.2	0.0	0.0	1.1	1.1	601.4	601.4	0.0	0.0	21,044.9	19,380.8
Kansas	6,375.4	5,684.7	8,846.1	9,024.8	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	16,447.3	15,935.3
Minnesota	5,529.2	5,229.4	10,239.6	10,149.5	0.0	0.0	16.0	16.0	1,657.0	1,657.0	16.7	16.7	17,458.5	17,068.6
Missouri	1,579.0	1,579.0	17,431.1	17,672.0	657.0	657.0	2.2	2.2	1,190.0	1,190.0	0.0	0.0	20,859.3	21,100.2
Nebraska	2,495.7	2,332.9	6,197.2	6,201.8	0.0	0.0	0.0	0.0	770.0	770.0	0.0	0.0	9,462.9	9,304.7
North Dakota	4,198.3	3,637.6	4,601.4	4,633.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,805.0	8,276.5
South Dakota	3,194.9	2,476.8	1,697.5	1,691.3	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	4,893.2	4,168.9
South Atlantic	23,739.7	20,650.3	161,236.1	162,098.8	7,906.4	7,905.2	78.4	76.5	24,688.6	24,706.6	468.9	408.7	218,118.1	215,846.1
Delaware	50.9	47.4	3,323.9	3,330.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,374.8	3,377.8
District of Columbia	20.4	17.9	20.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	34.4
Florida	4,337.4	3,211.2	53,463.7	52,630.9	0.0	0.0	15.9	14.0	3,626.0	3,626.0	312.9	348.7	61,755.9	59,830.8
Georgia	4,771.8	4,023.2	26,100.8	27,054.5	1,863.4	1,862.2	1.0	1.0	4,061.0	4,061.0	0.0	0.0	36,798.0	37,001.9
Maryland	1,249.7	1,200.5	11,726.6	11,965.4	0.0	0.0	7.0	7.0	1,707.8	1,725.8	6.0	6.0	14,697.1	14,904.7
North Carolina	7,359.3	6,825.6	22,180.8	22,011.5	86.0	86.0	1.0	1.0	5,149.6	5,149.6	54.0	54.0	34,830.7	34,127.7
South Carolina	2,688.6	2,224.5	11,764.1	12,161.3	2,716.0	2,716.0	4.0	4.0	6,576.2	6,576.2	0.0	0.0	23,748.9	23,682.0
Virginia	2,231.3	2,069.7	18,917.7	19,140.4	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	96.0	0.0	28,054.0	28,019.1
West Virginia	1,030.3	1,030.3	13,737.9	13,787.9	0.0	0.0	49.5	49.5	0.0	0.0	0.0	0.0	14,817.7	14,867.7
East South Central	8,896.0	8,891.3	61,817.1	62,900.6	1,616.3	1,616.3	1.0	1.0	11,449.1	11,449.1	1.4	1.4	83,780.9	84,859.7
Alabama	4,103.8	4,163.0	19,627.9	19,552.3	0.0	0.0	1.0	1.0	5,525.4	5,525.4	0.0	0.0	29,258.1	29,241.7
Kentucky	1,247.6	1,245.2	17,276.9	18,290.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,524.5	19,535.5
Mississippi	520.5	463.0	12,670.0	12,867.7	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	14,592.9	14,733.1
Tennessee	3,024.1	3,020.1	12,242.3	12,190.3	1,616.3	1,616.3	0.0	0.0	4,522.7	4,522.7	0.0	0.0	21,405.4	21,349.4
West South Central	43,719.7	39,193.1	139,880.4	139,045.3	286.0	286.0	161.5	99.8	8,910.7	8,910.7	735.6	512.5	193,693.9	188,047.4
Arkansas	1,642.7	1,697.1	11,281.0	11,242.4	28.0	28.0	12.0	0.0	1,817.8	1,817.8	0.0	0.0	14,781.5	14,785.3
Louisiana	615.0	615.5	22,075.2	20,005.5	0.0	0.0	0.5	0.5	2,132.9	2,132.9	516.6	288.5	25,340.2	23,042.9
Oklahoma	9,141.0	9,041.0	18,108.7	18,155.1	258.0	258.0	10.0	0.0	0.0	0.0	0.0	0.0	27,517.7	27,454.1
Texas	32,321.0	27,839.5	88,415.5	89,642.3	0.0	0.0	139.0	99.3	4,960.0	4,960.0	219.0	224.0	126,054.5	122,765.1
Mountain	28,778.4	27,429.1	59,551.3	62,484.5	778.8	778.8	54.3	56.1	3,937.0	3,937.0	123.7	123.0	93,223.5	94,808.5
Arizona	5,337.0	5,101.1	17,505.7	19,623.1	216.3	216.3	42.0	42.0	3,937.0	3,937.0	0.0	0.0	27,038.0	28,919.5
Colorado	5,138.9	4,956.7	10,932.9	11,063.0	562.5	562.5	10.5	10.5	0.0	0.0	9.1	9.1	16,653.9	16,601.8
Idaho	4,067.4	4,068.5	1,127.1	1,127.1	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,209.3	5,210.4
Montana	3,665.8	3,571.2	2,125.1	2,744.9	0.0	0.0	0.0	0.0	0.0	0.0	40.0	40.0	5,830.9	6,356.1
Nevada	4,099.6	3,758.8	7,821.6	7,821.6	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	11,927.7	11,586.9
New Mexico	2,807.9	2,483.7	5,964.4	5,956.3	0.0	0.0	1.8	3.6	0.0	0.0	0.7	0.0	8,774.8	8,443.6
Utah	1,660.3	1,602.7	7,302.2	7,374.2	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	9,002.7	9,017.1
Wyoming	2,001.5	1,886.4	6,772.3	6,774.3	0.0	0.0	0.0	0.0	0.0	0.0	12.4	12.4	8,786.2	8,673.1
Pacific Contiguous	69,380.5	68,238.4	46,508.4	47,587.1	4,225.9	4,225.9	265.8	258.8	3,403.0	3,403.0	106.3	106.3	123,889.9	123,819.5
California	32,122.1	31,194.5	37,451.4	38,519.2	3,911.9	3,911.9	254.6	247.6	2,240.0	2,240.0	106.3	106.3	76,086.3	76,219.5
Oregon	12,525.8	12,272.4	4,315.2	4,326.1	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,846.0	16,603.5
Washington	24,732.6	24,771.5	4,741.8	4,741.8	314.0	314.0	6.2	6.2	1,163.0	1,163.0	0.0	0.0	30,957.6	30,996.5
Pacific Noncontiguous	1,240.8	1,210.2	4,363.3	4,229.6	0.0	0.0	108.2	107.2	0.0	0.0	26.6	26.6	5,738.9	5,573.6
Alaska	538.2	538.2	2,192.0	2,171.3	0.0	0.0	47.2	46.2	0.0	0.0	0.0	0.0	2,777.4	2,755.7
Hawaii	702.6	672.0	2,171.3	2,058.3	0.0	0.0	61.0	61.0	0.0	0.0	26.6	26.6	2,961.5	2,817.9
U.S. Total	241,268.0	225,758.8	738,792.8	745,316.7	22,900.1	22,821.2	1,094.8	990.5	97,102.9	99,546.6	1,731.6	1,447.6	1,102,890.2	1,095,881.4

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, April 2020 and 2019 (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	
	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	1,462.8	1,424.8	1,180.6	1,017.3	0.0	0.0	1,957.6	1,960.1	1,417.0	1,537.3	0.0	0.0	6,018.0	5,939.5	2,730.7	2,260.8	3,911.3	3,278.1	3,911.3	3,278.1
Connecticut	1.0	1.0	138.4	95.0	0.0	0.0	119.4	122.2	199.9	202.6	0.0	0.0	458.7	420.8	541.5	434.4	679.9	529.4	679.9	529.4
Maine	921.6	921.6	5.6	5.6	0.0	0.0	734.0	733.0	569.3	686.9	0.0	0.0	2,230.5	2,347.1	58.2	49.1	63.8	54.7	63.8	54.7
Massachusetts	105.7	96.1	859.6	777.3	0.0	0.0	266.3	267.0	284.9	284.9	0.0	0.0	1,516.5	1,425.3	1,710.1	1,485.2	2,569.7	2,262.5	2,569.7	2,262.5
New Hampshire	211.5	183.1	0.0	0.0	0.0	0.0	504.0	504.0	241.0	241.0	0.0	0.0	956.5	928.1	107.7	87.5	107.7	87.5	107.7	87.5
Rhode Island	72.8	72.8	55.5	34.6	0.0	0.0	2.7	2.7	40.1	40.1	0.0	0.0	171.1	150.2	189.0	95.1	244.5	129.7	244.5	129.7
Vermont	150.2	150.2	121.5	104.8	0.0	0.0	331.2	331.2	81.8	81.8	0.0	0.0	684.7	668.0	124.2	109.5	245.7	214.3	245.7	214.3
Middle Atlantic	3,453.3	3,467.3	1,480.3	1,162.3	0.0	0.0	5,474.1	5,473.2	1,233.5	1,279.4	0.0	0.0	11,641.2	11,382.2	3,797.6	3,145.9	5,277.9	4,308.2	5,277.9	4,308.2
New Jersey	7.6	7.6	892.3	785.9	0.0	0.0	12.3	12.3	208.9	227.3	0.0	0.0	1,121.1	1,033.1	1,757.8	1,505.0	2,650.1	2,290.9	2,650.1	2,290.9
New York	1,985.7	2,089.7	497.1	312.6	0.0	0.0	4,562.2	4,561.3	500.3	524.1	0.0	0.0	7,545.3	7,487.7	1,637.7	1,307.3	2,134.8	1,619.9	2,134.8	1,619.9
Pennsylvania	1,460.0	1,370.0	90.9	63.8	0.0	0.0	899.6	899.6	524.3	528.0	0.0	0.0	2,974.8	2,861.4	402.2	333.6	493.1	397.4	493.1	397.4
East North Central	11,226.9	10,332.1	539.3	469.9	0.0	0.0	878.8	859.9	1,160.5	1,252.3	0.0	0.0	13,805.5	12,914.2	741.6	461.3	1,280.9	931.2	1,280.9	931.2
Illinois	5,568.2	4,803.7	43.6	40.6	0.0	0.0	34.1	34.1	88.2	88.2	0.0	0.0	5,734.1	4,966.6	259.1	102.8	302.7	143.4	302.7	143.4
Indiana	2,309.8	2,309.8	244.3	217.0	0.0	0.0	60.4	60.4	70.8	70.8	0.0	0.0	2,685.3	2,658.0	107.9	79.9	352.2	296.9	352.2	296.9
Michigan	2,185.7	2,061.8	102.0	100.2	0.0	0.0	273.4	269.9	504.0	562.0	0.0	0.0	3,065.1	2,993.9	106.9	72.1	208.9	172.3	208.9	172.3
Ohio	843.5	718.4	109.0	88.2	0.0	0.0	101.9	101.9	138.7	149.8	0.0	0.0	1,193.1	1,058.3	174.3	140.3	283.3	228.5	283.3	228.5
Wisconsin	319.7	438.4	40.4	23.9	0.0	0.0	409.0	393.6	358.8	381.5	0.0	0.0	1,127.9	1,237.4	93.4	66.2	133.8	90.1	133.8	90.1
West North Central	29,280.5	25,269.0	1,055.4	886.6	0.0	0.0	3,296.7	3,296.7	415.6	458.2	0.0	0.0	34,048.2	29,910.5	462.7	359.5	1,518.1	1,246.1	1,518.1	1,246.1
Iowa	10,492.6	8,791.8	16.1	10.5	0.0	0.0	146.4	146.4	20.6	21.4	0.0	0.0	10,675.7	8,970.1	129.0	99.4	145.1	109.9	145.1	109.9
Kansas	6,329.2	5,658.5	30.2	10.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	6,375.4	5,684.7	27.6	21.5	57.8	31.7	57.8	31.7
Minnesota	4,049.2	3,850.5	927.7	784.8	0.0	0.0	205.9	205.9	346.4	388.2	0.0	0.0	5,529.2	5,229.4	76.5	64.9	1,004.2	849.7	1,004.2	849.7
Missouri	954.3	954.3	62.1	62.1	0.0	0.0	548.5	548.5	14.1	14.1	0.0	0.0	1,579.0	1,579.0	216.6	164.0	278.7	226.1	278.7	226.1
Nebraska	2,180.8	2,018.3	18.3	18.0	0.0	0.0	280.9	280.9	15.7	15.7	0.0	0.0	2,495.7	2,332.9	11.6	8.6	29.9	26.6	29.9	26.6
North Dakota	3,678.5	3,117.8	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	4,198.3	3,637.6	0.5	0.4	0.5	0.4	0.5	0.4
South Dakota	1,595.9	877.8	1.0	1.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	3,194.9	2,476.8	0.9	0.7	1.9	1.7	1.9	1.7
South Atlantic	1,086.3	1,086.3	11,116.6	8,145.8	0.0	0.0	7,201.2	7,224.4	4,335.6	4,193.8	0.0	0.0	23,739.7	20,650.3	2,263.9	1,849.4	13,380.5	9,995.2	13,380.5	9,995.2
Delaware	2.0	2.0	36.7	33.2	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	50.9	47.4	85.4	81.2	122.1	114.4	122.1	114.4
District of Columbia	0.0	0.0	8.4	5.9	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	20.4	17.9	70.1	49.5	78.5	55.4	78.5	55.4
Florida	0.0	0.0	3,109.8	1,975.9	0.0	0.0	43.5	54.5	1,184.1	1,180.8	0.0	0.0	4,337.4	3,211.2	573.0	358.4	3,682.8	2,334.3	3,682.8	2,334.3
Georgia	0.0	0.0	1,681.0	1,026.6	0.0	0.0	2,031.0	2,047.2	1,059.8	949.4	0.0	0.0	4,771.8	4,023.2	NM	175.7	NM	1,202.3	NM	1,202.3
Maryland	190.0	190.0	328.8	279.6	0.0	0.0	590.0	590.0	140.9	140.9	0.0	0.0	1,249.7	1,200.5	789.1	737.6	1,117.9	1,017.2	1,117.9	1,017.2
North Carolina	208.0	208.0	4,581.3	4,056.7	0.0	0.0	2,006.0	2,002.0	564.0	558.9	0.0	0.0	7,359.3	6,825.6	201.9	152.8	4,783.2	4,209.5	4,783.2	4,209.5
South Carolina	0.0	0.0	810.2	374.1	0.0	0.0	1,323.9	1,323.9	554.5	526.5	0.0	0.0	2,688.6	2,224.5	240.7	213.2	1,050.9	587.3	1,050.9	587.3
Virginia	0.0	0.0	560.4	393.8	0.0	0.0	866.0	866.0	804.9	809.9	0.0	0.0	2,231.3	2,069.7	107.1	73.4	667.5	467.2	667.5	467.2
West Virginia	686.3	686.3	0.0	0.0	0.0	0.0	340.8	340.8	3.2	3.2	0.0	0.0	1,030.3	1,030.3	9.8	7.7	9.8	7.7	9.8	7.7
East South Central	29.1	29.1	620.5	559.0	0.0	0.0	7,055.3	7,055.5	1,191.1	1,247.7	0.0	0.0	8,896.0	8,891.3	109.0	98.5	729.5	657.5	729.5	657.5
Alabama	0.0	0.0	194.1	194.1	0.0	0.0	3,291.8	3,292.0	617.9	676.9	0.0	0.0	4,103.8	4,163.0	NM	NM	NM	NM	NM	NM
Kentucky	0.0	0.0	26.1	26.1	0.0	0.0	1,146.9	1,146.9	74.6	72.2	0.0	0.0	1,247.6	1,245.2	31.8	24.1	57.9	50.2	57.9	50.2
Mississippi	0.0	0.0	218.1	160.6	0.0	0.0	0.0	0.0	302.4	302.4	0.0	0.0	520.5	463.0	9.4	7.9	227.5	168.5	227.5	168.5
Tennessee	29.1	29.1	182.2	178.2	0.0	0.0	2,616.6	2,616.6	196.2	196.2	0.0	0.0	3,024.1	3,020.1	59.2	58.0	241.4	236.2	241.4	236.2
West South Central	36,732.4	32,856.8	2,831.7	2,102.0	0.0	0.0	2,991.4	2,991.4	1,164.2	1,242.9	0.0	0.0	43,719.7	39,193.1	944.7	715.8	3,776.4	2,817.8	3,776.4	2,817.8
Arkansas	0.0	0.0	112.2	100.0	0.0	0.0	1,265.8	1,265.8	264.7	331.3	0.0	0.0	1,642.7	1,697.1	33.2	19.8	145.4	119.8	145.4	119.8
Louisiana	0.0	0.0	1.1	1.1	0.0	0.0	192.0	192.0	421.9	422.4	0.0	0.0	615.0	615.5	148.5	140.6	149.6	141.7	149.6	141.7
Oklahoma	8,170.7	8,070.7	30.5	30.5	0.0	0.0	863.6	863.6	76.2	76.2	0.0	0.0	9,141.0	9,041.0	14.4	10.4	44.9	40.9	44.9	40.9
Texas	28,561.7	24,786.1	2,687.9	1,970.4	0.0	0.0	670.0	670.0	401.4	413.0	0.0	0.0	32,321.0	27,839.5	748.6	545.1	3,436.5	2,515.5	3,436.5	2,515.5
Mountain	10,040.5	9,560.6	6,770.8	5,931.1	474.1	473.9	10,662.8	10,650.2	171.2	174.3	659.0	639.0	28,778.4	27,429.1	2,897.8	2,452.4	9,668.6	8,383.5	10,142.7	8,857.4
Arizona	267.3	267.3	2,022.5	1,786.8	295.6	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	5,337.0	5,101.1	1,506.8	1,301.7	3,529.3	3,088.5	3,824.9	3,383.9
Colorado	3,763.1	3,698.5	663.0	543.1	0.0	0.0	684.1	686.4	28.7	28.7	0.0	0.0	5,138.9	4,956.7	400.6	367.9	1,063.6	911.0	1,063.6	911.0
Idaho	970.4	970.4	242.0	240.0	0.0	0.0	2,764.2	2,764.2	80.8	83.9	10.0	10.0	4,067.4	4,068.5	49.1	31.2	291.1	271.2	291.1	271.2
Montana	863.2	783.5	17.0	17.0	0.0	0.0	2,782.6	2,767.7	3.0	3.0	0.0	0.0	3,665.8	3,571.2	18.8	14.7	35.8	31.7	35.8	31.7
Nevada	150.0	150.0	2,142.5	1,821.7	178.5	178.5	1,051.4	1,051.4	9.8	9.8	567.4	547.4	4,099.6	3,758.8	449.2	339.8	2,591.7	2,161.5	2,770.2	2,340.0
New Mexico	2,035.9	1,815.4	675.1	571.4	0.0	0.0	82.9	82.9	5.4	5.4	8.6	8.6	2,807.9	2,483.7	175.8	145.4	850.9	716.8	850.9	716.8
Utah	388.2	388.2	916.7	859.1	0.0	0.0	269.6	269.6	12.8	12.8	73.0	73.0	1,660.3	1,602.7	290.2	246.5	1,206.9	1,105.6	1,206.9	1,105.6
Wyoming	1,602.4	1,487.3	92.0	92.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	2,001.5	1,886.4	7.2	5.2	99.2	97.2	99.2	97.2
Pacific Contiguous	12,559.1	12,345.9	12,053.8	11,046.7	1,284.0	1,284.0	39,741.2	39,880.6	1,886.7	1,904.1	1,855.7	1,777.1	69,380.5	68,238.4	9,941.2	8,598.7	21,995.0	19,645.4	23,279.0	20,929.4
California	6,029.2	6,057.5	11,583.8	10,706.7	1,284.0	1,284.0	10,201.6	10,184.0	1,187.3	1,204.7	1,836.2	1,757.6	32,122.1	31,194.5	9,576.8	8,265.8	21,160.6	18,972.5	22,444.6	20,256.5
Oregon	3,424.0	3,215.3	450.3	320.3	0.0	0.0	8,317.0	8,402.3	315.0	315.0	19.5	19.5	12,525.8	12,272.4	181.8	180.4	632.1	500.7	632.1	500.7
Washington	3,105.9	3,073.1	19.7	19.7	0.0	0.0	21,222.6	21,294.3	384.4	384.4	0.0	0.0	24,732.6	24,771.5	182.6	152.5	202.3	172.2	202.3	172.2
Pacific Noncontiguous	266.2	266.2	267.7	124.1	0.0	0.0	503.0	503.0	160.9	273.9	43.0	43.0	1,240.8	1,210.2	691.6	618.8	959.3	742.9	959.3	742.9
Alaska	60.6	60.6	0.0	0.0	0.0	0.0	470.6	470.6	7.0	7.0	0.0	0.0	538.2	538.2	5.8	3.4	5.8	3.4	5.8	3.4
Hawaii	205.6	205.6	267.7	124.1	0.0	0.0	32.4	32.4	153.9	266.9	43.0	43.0	702.6	672.0	685.8	615.5	953.5	739.6	953.5	739.6
U.S. Total	106,137.1	96,638.1	37,916.7	31,444.8	1,758.1	1,757.9	79,762.1	79,895.0	13,136.3	13,563.9	2,557.7	2,459.1	241,268.0	225,758.8	24,581.0	20,561.2	62,497.7	52,006.0	64,255.8	53,763.9

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

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

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, April 2020 and 2019 (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	
	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019	April 2020	April 2019
New England	14,288.1	13,638.1	1,596.8	1,154.0	1,104.1	1,116.3	917.3	917.3	0.0	0.0	6,315.1	6,318.6	0.0	0.0	24,221.4	23,144.3
Connecticut	3,991.6	3,413.4	579.2	563.0	885.7	878.7	383.4	383.4	0.0	0.0	2,034.9	2,034.9	0.0	0.0	7,874.8	7,273.4
Maine	1,285.6	1,284.3	144.3	144.3	12.5	12.5	0.0	0.0	0.0	0.0	1,056.9	1,037.7	0.0	0.0	2,499.3	2,478.8
Massachusetts	5,962.7	5,895.2	857.1	430.5	180.5	199.7	0.0	0.0	0.0	0.0	2,576.4	2,599.2	0.0	0.0	9,576.7	9,124.6
New Hampshire	1,258.0	1,258.0	3.8	3.8	0.0	0.0	533.9	533.9	0.0	0.0	494.2	494.2	0.0	0.0	2,289.9	2,289.9
Rhode Island	1,790.2	1,787.2	12.4	12.4	25.4	25.4	0.0	0.0	0.0	0.0	7.1	7.1	0.0	0.0	1,835.1	1,832.1
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	145.6	145.5	0.0	0.0	145.6	145.5
Middle Atlantic	35,388.6	32,631.0	7,897.9	7,900.5	14,076.9	14,449.3	10,456.8	11,960.7	11.6	78.6	5,363.5	5,338.9	130.7	130.7	73,326.0	72,489.7
New Jersey	8,579.0	8,541.5	2,844.3	2,826.3	66.9	46.9	463.0	463.0	11.6	11.6	246.1	239.0	29.0	29.0	12,239.9	12,157.3
New York	9,924.0	8,893.9	3,181.2	3,165.7	9,674.8	9,675.0	652.1	1,631.5	0.0	0.0	3,550.1	3,544.6	0.0	0.0	26,982.2	26,910.7
Pennsylvania	16,885.6	15,195.6	1,872.4	1,908.5	4,335.2	4,727.4	9,341.7	9,866.2	0.0	67.0	1,567.3	1,555.3	101.7	101.7	34,103.9	33,421.7
East North Central	21,687.4	21,659.3	26,659.4	26,676.5	5,593.8	5,743.3	51,488.3	54,280.2	247.6	247.6	2,347.8	2,455.8	1,084.9	1,092.9	109,109.2	112,155.6
Illinois	3,580.2	3,580.2	10,530.4	10,510.1	1,626.7	1,629.8	10,615.5	12,626.0	0.0	0.0	672.9	673.9	36.5	36.5	27,062.2	29,056.5
Indiana	3,866.0	3,828.0	3,281.3	3,355.1	730.3	730.0	15,245.7	15,245.7	0.0	0.0	98.3	98.3	619.3	619.3	23,840.9	23,876.4
Michigan	4,425.0	4,413.6	3,852.9	3,874.0	2,416.0	2,558.5	8,590.3	8,608.3	47.2	47.2	464.8	463.5	250.0	250.0	20,046.2	20,215.1
Ohio	7,037.8	7,026.4	5,636.7	5,575.1	190.7	185.1	11,496.0	12,246.0	142.0	142.0	531.5	584.6	179.1	187.1	25,213.8	25,946.3
Wisconsin	2,778.4	2,811.1	3,358.1	3,362.2	630.1	639.9	5,540.8	5,554.2	58.4	58.4	580.3	635.5	0.0	0.0	12,946.1	13,061.3
West North Central	6,816.7	6,642.1	11,596.7	11,733.4	3,669.7	3,803.2	32,811.8	33,079.3	32.0	39.5	3,844.3	3,875.3	8.4	8.4	58,779.6	59,181.2
Iowa	1,776.6	1,781.0	1,231.4	1,259.4	553.6	539.2	5,358.9	5,371.7	32.0	39.5	814.2	817.4	0.0	0.0	9,766.7	9,808.2
Kansas	266.0	266.0	2,158.1	2,156.8	1,185.6	1,357.8	4,678.5	4,679.8	0.0	0.0	557.9	564.4	0.0	0.0	8,846.1	9,024.8
Minnesota	2,346.0	2,172.0	2,544.8	2,668.8	423.8	381.6	4,157.9	4,157.9	0.0	0.0	767.1	769.2	0.0	0.0	10,239.6	10,149.5
Missouri	1,794.9	1,794.9	3,394.7	3,396.8	869.5	878.5	10,266.5	10,486.5	0.0	0.0	1,105.5	1,115.3	0.0	0.0	17,431.1	17,672.0
Nebraska	338.2	338.2	1,149.0	1,149.0	521.7	525.8	3,867.0	3,867.0	0.0	0.0	321.3	321.8	0.0	0.0	6,197.2	6,201.8
North Dakota	0.0	0.0	414.0	408.0	106.8	111.6	4,009.0	4,042.4	0.0	0.0	63.2	63.2	8.4	8.4	4,601.4	4,633.6
South Dakota	295.0	290.0	704.7	694.6	8.7	8.7	474.0	474.0	0.0	0.0	215.1	224.0	0.0	0.0	1,697.5	1,691.3
South Atlantic	61,992.1	60,793.4	31,919.4	32,018.1	7,271.3	6,970.1	51,075.1	53,083.2	142.8	142.8	8,700.4	8,956.2	135.0	135.0	161,236.1	162,098.8
Delaware	1,504.0	1,511.0	316.4	317.2	844.4	843.1	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,323.9	3,330.4
District of Columbia	0.0	0.0	20.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	16.5
Florida	31,958.7	31,221.0	7,825.7	7,755.1	2,521.7	2,493.2	7,802.0	7,804.0	59.0	59.0	3,296.6	3,298.6	0.0	0.0	53,463.7	52,630.9
Georgia	8,009.5	7,992.9	7,803.2	7,791.0	842.9	842.9	8,416.0	9,398.5	83.8	83.8	945.4	945.4	0.0	0.0	26,100.8	27,054.5
Maryland	2,845.7	2,849.1	1,939.2	1,994.0	1,416.1	1,513.1	4,270.0	4,330.0	0.0	0.0	1,255.6	1,279.2	0.0	0.0	11,726.6	11,965.4
North Carolina	5,616.2	5,068.0	6,050.4	6,050.7	1.0	1.0	10,011.2	10,389.2	0.0	0.0	502.0	502.6	0.0	0.0	22,180.8	22,011.5
South Carolina	3,185.0	3,185.0	2,625.2	2,754.9	950.0	546.0	4,769.0	5,212.0	0.0	0.0	234.9	463.4	0.0	0.0	11,764.1	12,161.3
Virginia	8,873.0	8,966.4	4,245.3	4,245.3	579.7	615.3	2,878.9	2,971.5	0.0	0.0	2,340.8	2,341.9	0.0	0.0	18,917.7	19,140.4
West Virginia	0.0	0.0	1,093.4	1,093.4	115.5	115.5	12,518.0	12,568.0	0.0	0.0	11.0	11.0	0.0	0.0	13,737.9	13,787.9
East South Central	21,772.3	21,746.2	12,712.7	12,669.7	4,321.2	4,503.8	22,884.4	23,844.1	0.0	0.0	106.7	117.0	19.8	19.8	61,817.1	62,900.6
Alabama	9,729.8	9,699.0	2,575.8	2,575.8	1,975.6	1,939.1	5,284.3	5,276.0	0.0	0.0	42.6	42.6	19.8	19.8	19,627.9	19,552.3
Kentucky	1,763.0	1,763.0	4,931.2	4,976.6	260.0	260.0	10,310.8	11,278.8	0.0	0.0	11.9	11.9	0.0	0.0	17,276.9	18,290.3
Mississippi	7,824.4	7,829.1	1,373.2	1,336.8	2,019.4	2,238.5	1,444.0	1,444.0	0.0	0.0	9.0	19.3	0.0	0.0	12,670.0	12,867.7
Tennessee	2,455.1	2,455.1	3,832.5	3,780.5	66.2	66.2	5,845.3	5,845.3	0.0	0.0	43.2	43.2	0.0	0.0	12,242.3	12,190.3
West South Central	62,484.0	60,229.5	14,677.3	14,414.9	30,644.2	31,839.4	30,128.1	30,600.4	938.9	954.7	169.1	175.6	838.8	830.8	139,880.4	139,045.3
Arkansas	4,609.8	4,608.8	702.8	702.8	796.0	796.0	5,163.4	5,122.6	0.0	0.0	9.0	12.2	0.0	0.0	11,281.0	11,242.4
Louisiana	9,514.2	7,430.6	2,368.1	2,349.6	6,030.1	6,050.2	2,837.1	2,833.7	875.1	890.9	43.2	43.1	407.4	407.4	22,075.2	20,005.5
Oklahoma	7,317.2	7,307.2	1,630.5	1,686.9	5,831.6	5,764.1	3,255.0	3,322.5	0.0	0.0	74.4	74.4	0.0	0.0	18,108.7	18,155.1
Texas	41,042.8	40,882.9	9,975.9	9,675.6	17,986.5	19,229.1	18,872.6	19,321.6	63.8	63.8	42.5	45.9	431.4	423.4	88,415.5	89,642.3
Mountain	22,554.4	22,539.8	9,130.3	9,058.4	3,634.7	3,615.4	23,726.5	26,765.5	52.0	52.0	349.9	349.9	103.5	103.5	59,551.3	62,484.5
Arizona	9,916.5	9,908.6	2,891.1	2,786.4	1,278.6	1,258.6	3,329.0	5,579.0	0.0	0.0	90.5	90.5	0.0	0.0	17,505.7	19,623.1
Colorado	3,249.5	3,249.5	2,538.0	2,568.1	639.0	639.0	4,340.0	4,440.0	0.0	0.0	166.4	166.4	0.0	0.0	10,932.9	11,063.0
Idaho	547.7	547.7	552.0	552.0	13.5	13.5	8.5	8.5	0.0	0.0	5.4	5.4	0.0	0.0	1,127.1	1,127.1
Montana	0.0	0.0	315.8	321.6	72.2	72.2	1,683.6	2,297.6	52.0	52.0	0.0	0.0	1.5	1.5	2,125.1	2,744.9
Nevada	5,445.0	5,445.0	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	7,821.6	7,821.6
New Mexico	1,471.7	1,465.0	957.0	956.9	847.7	846.4	2,640.0	2,640.0	0.0	0.0	48.0	48.0	0.0	0.0	5,964.4	5,956.3
Utah	1,830.0	1,830.0	537.2	534.2	328.2	328.2	4,579.0	4,654.0	0.0	0.0	27.8	27.8	0.0	0.0	7,302.2	7,374.2
Wyoming	94.0	94.0	153.6	153.6	10.9	12.9	6,406.0	6,406.0	0.0	0.0	5.8	5.8	102.0	102.0	6,772.3	6,774.3
Pacific Contiguous	26,365.9	25,838.8	12,002.0	12,099.0	5,447.3	6,957.5	1,982.0	1,982.0	20.0	17.0	469.8	471.4	221.4	221.4	46,508.4	47,587.1
California	20,358.3	19,820.3	11,148.8	11,245.8	5,191.3	6,701.5	57.0	57.0	20.0	17.0	454.6	456.2	221.4	221.4	37,451.4	38,519.2
Oregon	3,372.0	3,382.9	133.8	133.8	224.4	224.4	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	4,315.2	4,326.1
Washington	2,635.6	2,635.6	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	4,741.8	4,741.8
Pacific Noncontiguous	477.2	479.2	631.1	631.1	175.0	175.0	348.9	332.8	0.0	0.0	2,731.1	2,605.1	0.0	6.4	4,363.3	4,229.6
Alaska	477.2	479.2	631.1	631.1	175.0	175.0	168.9	152.8	0.0	0.0	739.8	733.2	0.0	0.0	2,192.0	2,171.3
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,991.3	1,871.9	0.0	6.4	2,171.3	2,058.3
U.S. Total	273,826.7	266,197.4	128,823.6	128,355.6	75,938.2	79,173.3	225,819.2	236,845.5	1,444.9	1,532.2	30,397.7	30,663.8	2,542.5	2,548.9	738,792.8	745,316.7

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, 2020

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	1	61012	AES Distributed Energy	IPP	AES Tonawanda Solar LLC	NY	63161	TNWDA	2.0	Solar Photovoltaic	SUN	PV
2020	1	63115	AZ Solar 1, LLC	IPP	OE_AZ1	AZ	63349	AZ1	32.5	Solar Photovoltaic	SUN	PV
2020	1	63049	Cannon Garden LLC	IPP	Cannon Garden Solar	MN	63252	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	1	63120	Cubera Solar, LLC	IPP	Cubera Solar, LLC	NC	63346	PGR06	2.0	Solar Photovoltaic	SUN	PV
2020	1	62801	DG Linden New Jersey LLC	IPP	DG Infineum	NJ	62958	INFNM	2.0	Solar Photovoltaic	SUN	PV
2020	1	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT7	153.0	Natural Gas Fired Combined Cycle	NG	CT
2020	1	61785	EDP Renewables North America LLC	IPP	Sun Streams, LLC	AZ	60827	GEN01	160.0	Solar Photovoltaic	SUN	PV
2020	1	60496	Enerparc Inc.	IPP	Brush Solar Center	OR	61844	BRUSH	2.8	Solar Photovoltaic	SUN	PV
2020	1	12685	Entergy Mississippi LLC	Electric Utility	Hinds Energy Facility	MS	55218	H04BS	36.4	Natural Gas Fired Combustion Turbine	NG	GT
2020	1	6452	Florida Power & Light Co	Electric Utility	Babcock Preserve	FL	62634	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Blue Heron Solar	FL	62631	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Cattle Ranch	FL	62632	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Northern Preserve Solar	FL	62645	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Sweetbay Solar Center	FL	62394	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	6452	Florida Power & Light Co	Electric Utility	Twin Lakes	FL	62633	1	74.5	Solar Photovoltaic	SUN	PV
2020	1	62856	Forefront Power, LLC	IPP	White CSG	MD	63085	15124	2.0	Solar Photovoltaic	SUN	PV
2020	1	61374	Foxtail Wind, LLC	Electric Utility	Foxtail Wind, LLC	ND	61747	1	150.0	Onshore Wind Turbine	WND	WT
2020	1	63114	GA Solar 3, LLC	IPP	OE_GA3	GA	63350	GA3	57.5	Solar Photovoltaic	SUN	PV
2020	1	62062	GD Richmond Buttonwoods I, LLC	IPP	GD Richmond Buttonwoods I, LLC	RI	62567	GDBUT	1.3	Solar Photovoltaic	SUN	PV
2020	1	62061	GD West Greenwich Victory I, LLC	IPP	GD West Greenwich Victory I, LLC	RI	62568	GDVIC	1.8	Solar Photovoltaic	SUN	PV
2020	1	61194	Generate Capital	IPP	Kelly Bridge Road Community Solar Farm	NY	62154	12	2.0	Solar Photovoltaic	SUN	PV
2020	1	61194	Generate Capital	IPP	Sacket Lake Rd #1 Community Solar Farm	NY	62158	11	2.0	Solar Photovoltaic	SUN	PV
2020	1	61728	GlidePath Power Operations LLC	IPP	Prospect Storage	TX	62753	BESS	9.9	Batteries	MWH	BA
2020	1	60025	Greenbacker Renewable Energy Corporation	IPP	Sol Phoenix	MD	62331	SOLPH	2.5	Solar Photovoltaic	SUN	PV
2020	1	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN2	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	1	60986	Imperial Valley Solar 2, LLC	IPP	Mount Signal Solar Farm II	CA	61353	IVS2	153.5	Solar Photovoltaic	SUN	PV
2020	1	9417	Interstate Power and Light Co	Electric Utility	Whispering Willow North	IA	62079	1	201.3	Onshore Wind Turbine	WND	WT
2020	1	62838	LSE Dorado, LLC	IPP	Goose Pond Solar	MA	62992	GPNOR	2.0	Solar Photovoltaic	SUN	PV
2020	1	62838	LSE Dorado, LLC	IPP	Goose Pond Solar	MA	62992	GPSOU	2.0	Solar Photovoltaic	SUN	PV
2020	1	12341	MidAmerican Energy Co	Electric Utility	Palo Alto Wind Farm	IA	63053	PAWF	250.0	Onshore Wind Turbine	WND	WT
2020	1	61925	Middlesex-Yates Solar, LLC	IPP	Daum Solar	NY	62412	DAUM	4.0	Solar Photovoltaic	SUN	PV
2020	1	63048	Misae Lessee LLC	IPP	Misae Solar	TX	62249	77777	240.0	Solar Photovoltaic	SUN	PV
2020	1	56990	NJR Clean Energy Ventures Corporation	IPP	Franklin Solar	NJ	63149	FRANK	8.8	Solar Photovoltaic	SUN	PV
2020	1	56990	NJR Clean Energy Ventures Corporation	IPP	Pohatcong Solar Farm	NJ	63150	POHAT	8.0	Solar Photovoltaic	SUN	PV
2020	1	62796	Paulding Wind Farm IV LLC	IPP	Timber Road IV	OH	62944	TRIV	125.1	Onshore Wind Turbine	WND	WT
2020	1	62964	Prawer Community Solar LLC	IPP	Prawer Project CSG	MN	63176	TC3	1.0	Solar Photovoltaic	SUN	PV
2020	1	16191	Robbins Lumber Inc	Industrial	Robbins Lumber	ME	50230	WEG	8.5	Wood/Wood Waste Biomass	WDS	ST
2020	1	60975	SR Innovation, LLC	IPP	SR Innovation - NIKE PV	TN	61332	NIKE2	1.7	Solar Photovoltaic	SUN	PV
2020	1	62966	STAG St. Paul Community Solar LLC	IPP	STAG St. Paul Project CSG	MN	63178	TC3	1.0	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	Mtn. Solar 3 CSG	CO	63379	X0134	1.5	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	USS Cheyenne Solar LLC CSG	MN	63145	CHYNE	1.0	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	USS Greenhouse Solar LLC CSG	MN	63143	GRHSE	1.0	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	USS Turkey Solar LLC CSG	MN	63148	TURKY	1.0	Solar Photovoltaic	SUN	PV
2020	1	62906	Syncarpha Questa I, LLC	IPP	Syncarpha Questa	NM	63125	SYNQU	1.6	Solar Photovoltaic	SUN	PV
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC10	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC6	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC7	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC8	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC9	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	1	20854	Winnebago County	Electric CHP	Winnebago County Landfill Gas	WI	50936	EG2R	0.6	Landfill Gas	LFG	IC
2020	2	61670	AES Huntington Beach Energy, LLC	IPP	AES Huntington Beach Energy Project	CA	62116	1A	194.0	Natural Gas Fired Combined Cycle	NG	CT
2020	2	61670	AES Huntington Beach Energy, LLC	IPP	AES Huntington Beach Energy Project	CA	62116	1B	194.0	Natural Gas Fired Combined Cycle	NG	CT
2020	2	61670	AES Huntington Beach Energy, LLC	IPP	AES Huntington Beach Energy Project	CA	62116	1S	215.0	Natural Gas Fired Combined Cycle	NG	CA
2020	2	61608	Agilon Energy Holdings II, LLC	IPP	Victoria City Power LLC	TX	61241	VC-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	2	61608	Agilon Energy Holdings II, LLC	IPP	Victoria City Power LLC	TX	61241	VC-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	2	62627	Alchemy Renewable Energy	IPP	Duus Solar, LLC	OR	63330	ORDUS	10.0	Solar Photovoltaic	SUN	PV
2020	2	62627	Alchemy Renewable Energy	IPP	Firwood Solar, LLC	OR	63331	ORFWD	10.0	Solar Photovoltaic	SUN	PV
2020	2	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	7	4.4	Natural Gas Internal Combustion Engine	NG	IC
2020	2	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV
2020	2	60496	Enerparc Inc.	IPP	Baker City Solar	OR	61854	BAKER	15.0	Solar Photovoltaic	SUN	PV
2020	2	63143	Falls Creek Garden LLC	IPP	Falls Creek Garden	MN	63394	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	62856	Forefront Power, LLC	IPP	Howell CSG	NY	63107	1725	2.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

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	2	61194	Generate Capital	IPP	Boas Rd #4 Community Solar Farm	NY	62533	1023	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Burritt Rd Community Solar Farm	NY	62480	635	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Villa Roma Rd #1	NY	62525	40	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Villa Roma Rd #2	NY	62526	41	2.0	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Washington St Community Solar Farm #1	NY	62472	617	2.2	Solar Photovoltaic	SUN	PV
2020	2	61194	Generate Capital	IPP	Washington St Community Solar Farm #4	NY	62471	1034	2.5	Solar Photovoltaic	SUN	PV
2020	2	63228	Gohman Community Solar LLC	IPP	Gohman Community Solar	MN	63484	GOHMN	1.1	Solar Photovoltaic	SUN	PV
2020	2	62106	Hidalgo Wind Farm II LLC	IPP	Hidalgo Wind Farm II	TX	62618	WT	50.4	Onshore Wind Turbine	WND	WT
2020	2	54769	INEOS USA LLC	Industrial	Power Island	TX	10154	GEN3	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	2	61620	IOS II LLC	IPP	IOS II-LAX9	CA	63414	IOSII	3.7	Solar Photovoltaic	SUN	PV
2020	2	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	PV1	2.6	Solar Photovoltaic	SUN	PV
2020	2	49893	Invenergy Services LLC	IPP	Camilla Solar Energy Project	GA	61785	CAMSR	171.4	Solar Photovoltaic	SUN	PV
2020	2	63213	Jemez Cuba LLC	IPP	Alcalde Solar Array	NM	63477	SOLAR	2.4	Solar Photovoltaic	SUN	PV
2020	2	61957	Kearny Mesa Storage LLC	IPP	Kearny Mesa Storage LLC	CA	62441	U1	1.0	Batteries	MWH	BA
2020	2	63158	Loon Garden LLC	IPP	Loon Garden	MN	63397	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	62915	Madison Energy Holdings LLC	IPP	Goodhue Community Solar One LLC CSG	MN	63380	52829	1.0	Solar Photovoltaic	SUN	PV
2020	2	62915	Madison Energy Holdings LLC	IPP	Goodhue Community Solar Three LLC CSG	MN	63417	52831	1.0	Solar Photovoltaic	SUN	PV
2020	2	12341	MidAmerican Energy Co	Electric Utility	Arbor Hill Wind Farm	IA	62132	1	60.0	Onshore Wind Turbine	WND	WT
2020	2	62832	Novel Herber Solar LLC CSG	IPP	Novel Herber Solar CSG	MN	62966	HERB	1.0	Solar Photovoltaic	SUN	PV
2020	2	60531	Standard Solar	IPP	USS Midtown Solar LLC CSG	MN	63146	MDTWN	1.0	Solar Photovoltaic	SUN	PV
2020	2	63144	Star Garden LLC	IPP	Star Garden	MN	63395	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	63131	Strandness Garden LLC	IPP	Strandness Garden	MN	63367	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	18454	Tampa Electric Co	Electric Utility	Little Manatee River Solar	FL	62750	GEN1	74.5	Solar Photovoltaic	SUN	PV
2020	2	60947	Tesla Inc.	IPP	Walnut Unified School District Walnut HS	CA	63510	PV1	1.8	Solar Photovoltaic	SUN	PV
2020	2	60947	Tesla Inc.	IPP	Walnut Unified School District Walnut HS	CA	63510	ST1	0.5	Batteries	MWH	BA
2020	2	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST
2020	2	62701	Vista Solar, Inc.	IPP	Shelter Creek Condominiums Solar	CA	62806	SCC01	2.4	Solar Photovoltaic	SUN	PV
2020	2	57354	X-Elio North America Inc	IPP	Lily Solar	SC	63548	1	70.0	Solar Photovoltaic	SUN	PV
2020	3	60571	AEP Onsite Partners	IPP	Galesburg Solar Array	IL	63399	GWA01	1.4	Solar Photovoltaic	SUN	PV
2020	3	61012	AES Distributed Energy	IPP	Hurteau Solar Project	MA	63468	BATT	1.3	Batteries	MWH	BA
2020	3	61012	AES Distributed Energy	IPP	Hurteau Solar Project	MA	63468	HURTU	2.0	Solar Photovoltaic	SUN	PV
2020	3	60281	Altus Power America Management, LLC	IPP	FastSun 10 CSG	MN	63038	FS10	1.0	Solar Photovoltaic	SUN	PV
2020	3	60281	Altus Power America Management, LLC	IPP	FastSun 11 CSG	MN	63037	FS11	1.0	Solar Photovoltaic	SUN	PV
2020	3	60281	Altus Power America Management, LLC	IPP	FastSun 9 CSG	MN	63040	FS9	1.0	Solar Photovoltaic	SUN	PV
2020	3	60146	Ameresco Federal Solutions	IPP	NASA Wallops Flight Facility Solar	VA	62948	CRPT5	0.1	Solar Photovoltaic	SUN	PV
2020	3	60146	Ameresco Federal Solutions	IPP	NASA Wallops Flight Facility Solar	VA	62948	CRPT6	0.1	Solar Photovoltaic	SUN	PV
2020	3	60146	Ameresco Federal Solutions	IPP	NASA Wallops Flight Facility Solar	VA	62948	CRPT7	0.1	Solar Photovoltaic	SUN	PV
2020	3	60146	Ameresco Federal Solutions	IPP	NASA Wallops Flight Facility Solar	VA	62948	TRCK1	4.0	Solar Photovoltaic	SUN	PV
2020	3	15399	Avangrid Renewables LLC	IPP	Otter Creek Wind Farm LLC	IL	61344	WT1	150.0	Onshore Wind Turbine	WND	WT
2020	3	56953	Bos Dairy, LLC	Industrial	Bos Dairy, LLC	IN	57625	BOS4	0.9	Natural Gas Internal Combustion Engine	NG	IC
2020	3	63157	Buffalo Garden LLC	IPP	Buffalo Garden	MN	63396	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	59365	Capital Power Corporation	IPP	Cardinal Point LLC	IL	59902	GEN	150.0	Onshore Wind Turbine	WND	WT
2020	3	60656	Chestnut Solar LLC	IPP	Chestnut Solar	NC	61011	PV1	74.9	Solar Photovoltaic	SUN	PV
2020	3	63177	Chub Garden LLC	IPP	Chub Garden Solar	MN	63430	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	8	3.3	Natural Gas Internal Combustion Engine	NG	IC
2020	3	18488	City of Taunton	Electric Utility	Cleary Flood Hybrid	MA	1682	BS1	2.9	Batteries	MWH	BA
2020	3	56769	Consolidated Edison Development Inc.	IPP	Lakehurst Solar	NJ	63503	LAKHS	9.6	Solar Photovoltaic	SUN	PV
2020	3	63338	Crown Solar Center, LLC	IPP	Crown	SC	63635	CROWN	3.0	Solar Photovoltaic	SUN	PV
2020	3	6455	Duke Energy Florida, LLC	Electric Utility	Columbia Solar Power Plant	FL	61982	PV1	74.9	Solar Photovoltaic	SUN	PV
2020	3	56201	Engie North America	IPP	East Fork Wind Project, LLC	KS	62220	WTGS	195.8	Onshore Wind Turbine	WND	WT
2020	3	56201	Engie North America	IPP	Jumbo Hill Wind Project	TX	62630	WTGS1	160.7	Onshore Wind Turbine	WND	WT
2020	3	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT
2020	3	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT
2020	3	11241	Entergy Louisiana LLC	Electric Utility	Lake Charles Power	LA	60927	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA
2020	3	62856	Forefront Power, LLC	IPP	Fresno Bullard High School	CA	63420	903	1.2	Solar Photovoltaic	SUN	PV
2020	3	62856	Forefront Power, LLC	IPP	Fresno Bullard High School	CA	63420	BA903	0.4	Batteries	MWH	BA
2020	3	62856	Forefront Power, LLC	IPP	Fresno Hoover High School	CA	63421	291	1.2	Solar Photovoltaic	SUN	PV
2020	3	62856	Forefront Power, LLC	IPP	Fresno Hoover High School	CA	63421	BA291	0.2	Batteries	MWH	BA
2020	3	63339	Fort Rock Solar I, LLC	IPP	Fort Rock I	OR	63636	FR1	9.9	Solar Photovoltaic	SUN	PV
2020	3	60025	Greenbacker Renewable Energy Corporation	IPP	Blue Star	MD	62332	BLUES	7.5	Solar Photovoltaic	SUN	PV
2020	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS CC, LLC	DC	63428	254	1.5	Solar Photovoltaic	SUN	PV
2020	3	60025	Greenbacker Renewable Energy Corporation	IPP	IGS FE Trenton, LLC	NJ	63626	229	1.5	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

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	3	9417	Interstate Power and Light Co	Electric Utility	Golden Plains	IA	62081	1	199.8	Onshore Wind Turbine	WND	WT
2020	3	62085	Mesquite Star LLC	IPP	Mesquite Star	TX	62587	MESQ	418.9	Onshore Wind Turbine	WND	WT
2020	3	63175	Mud Garden LLC	IPP	Mud Garden Solar	MN	63427	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	63185	Neighborhood Power Corp.	IPP	St Louis Solar	OR	63456	W9319	2.2	Solar Photovoltaic	SUN	PV
2020	3	62837	Novel DeCook Solar LLC CSG	IPP	Novel DeCook Solar CSG	MN	62979	DECO	1.0	Solar Photovoltaic	SUN	PV
2020	3	61758	Prevailing Wind Park, LLC	IPP	Prevailing Wind Park	SD	62247	PWPSD	220.0	Onshore Wind Turbine	WND	WT
2020	3	63187	Rush Springs Energy Storage	IPP	Rush Springs Energy Storage (BA)	OK	63458	RUSHE	10.0	Batteries	MWH	BA
2020	3	60163	Soltage LLC	IPP	Ace Solar	SC	61937	18	1.0	Solar Photovoltaic	SUN	PV
2020	3	62971	South Energy Investments LLC	IPP	South Windsor Fuel Cell	CT	63302	SWFC5	5.0	Other Natural Gas	NG	FC
2020	3	60531	Standard Solar	IPP	NY 26 Carthage CSG	NY	63224	X0140	5.0	Solar Photovoltaic	SUN	PV
2020	3	63171	Straight Garden LLC	IPP	Straight Garden Solar	MN	63424	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC1	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC2	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC3	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC4	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	24211	Tucson Electric Power Co	Electric Utility	H Wilson Sundt Generating Station	AZ	126	RIC5	18.2	Natural Gas Internal Combustion Engine	NG	IC
2020	3	62103	Whitney Hill Wind Power LLC	IPP	Whitney Hill Wind Power LLC	IL	62606	WTHWP	65.0	Onshore Wind Turbine	WND	WT
2020	4	59496	Allete Clean Energy	IPP	South Peak Wind	MT	62939	41001	80.0	Onshore Wind Turbine	WND	WT
2020	4	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	MN	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT
2020	4	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	IC5	18.5	Natural Gas Internal Combustion Engine	NG	IC
2020	4	17568	Cooperative Energy	Electric Utility	Benndale	MS	2068	BENU1	11.3	Natural Gas Internal Combustion Engine	NG	IC
2020	4	17568	Cooperative Energy	Electric Utility	Benndale	MS	2068	BENU2	11.3	Natural Gas Internal Combustion Engine	NG	IC
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	143.3	Natural Gas Fired Combined Cycle	NG	CA
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	143.3	Natural Gas Fired Combined Cycle	NG	CA
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	143.3	Natural Gas Fired Combined Cycle	NG	CA
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U004	195.4	Natural Gas Fired Combined Cycle	NG	CT
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U005	195.4	Natural Gas Fired Combined Cycle	NG	CT
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U006	195.4	Natural Gas Fired Combined Cycle	NG	CT
2020	4	61060	Cypress Creek Renewables	IPP	Huntley	SC	63271	1295	75.0	Solar Photovoltaic	SUN	PV
2020	4	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST8	102.0	Natural Gas Fired Combined Cycle	NG	CA
2020	4	58135	Ecos Energy LLC	IPP	Plainfield Solar 2	CT	63263	PLFD2	1.0	Solar Photovoltaic	SUN	PV
2020	4	63176	Erin Garden LLC	IPP	Erin Garden Solar	MN	63429	CSG	1.0	Solar Photovoltaic	SUN	PV
2020	4	6452	Florida Power & Light Co	Electric Utility	Echo River Solar	FL	62490	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	6452	Florida Power & Light Co	Electric Utility	Hibiscus Solar Energy Center	FL	62206	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	6452	Florida Power & Light Co	Electric Utility	Okeechobee Solar	FL	62491	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	6452	Florida Power & Light Co	Electric Utility	Southfork Solar	FL	62493	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	61944	GSRP	IPP	Chevron - Lost Hills	CA	63545	GEN1	30.0	Solar Photovoltaic	SUN	PV
2020	4	61194	Generate Capital	IPP	Washington St Community Solar Farm #3	NY	62473	1035	2.5	Solar Photovoltaic	SUN	PV
2020	4	63399	Hertzberg Community Solar	IPP	Hertzberg Community (CSG)	MN	63680	HERTZ	1.0	Solar Photovoltaic	SUN	PV
2020	4	63398	Laurel Village Community Solar LLC	IPP	Laurel Village (CSG)	MN	63679	LAUR	1.0	Solar Photovoltaic	SUN	PV
2020	4	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Johnson Corner Solar 1	KS	62993	KSJC1	20.0	Solar Photovoltaic	SUN	PV
2020	4	62915	Madison Energy Holdings LLC	IPP	Goodhue Community Solar Two LLC	MN	63533	52830	1.0	Solar Photovoltaic	SUN	PV
2020	4	62863	Novel Bartel Solar LLC CSG	IPP	Novel Bartel Solar CSG	MN	63004	BART	1.0	Solar Photovoltaic	SUN	PV
2020	4	62833	Novel Herickhoff Solar LLC CSG	IPP	Novel Herickhoff Solar CSG	MN	62967	HERIC	1.0	Solar Photovoltaic	SUN	PV
2020	4	62009	Palmer Solar LLC	IPP	Palmer Solar	CO	62495	20181	60.0	Solar Photovoltaic	SUN	PV
2020	4	63397	Paulson Community Solar LLC	IPP	Paulson Community (CSG)	MN	63678	PAUL	1.0	Solar Photovoltaic	SUN	PV
2020	4	16380	RTC Properties Inc	Commercial	River Terminal Development Solar	NJ	60843	RTD6	0.2	Solar Photovoltaic	SUN	PV
2020	4	60389	Rabbit Hill Energy Storage Project	IPP	Rabbit Hill Energy Storage Project	TX	60649	1	9.9	Batteries	MWH	BA
2020	4	63357	Sheriff Rd Solar LLC	IPP	Sheriff Road	MD	63654	SHRFF	1.1	Solar Photovoltaic	SUN	PV
2020	4	18454	Tampa Electric Co	Electric Utility	Wimauma Solar	FL	61667	1	74.5	Solar Photovoltaic	SUN	PV
2020	4	63173	Zumbro Garden LLC	IPP	Zumbro Solar Garden	MN	63426	CGS	1.0	Solar Photovoltaic	SUN	PV

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
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Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2020

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	1	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	1	189.0	Conventional Steam Coal	BIT	ST
2020	1	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	189.0	Conventional Steam Coal	BIT	ST
2020	1	9155	Inland Empire Energy Ctr LLC	IPP	Inland Empire Energy Center	CA	55853	1	345.0	Natural Gas Fired Combined Cycle	NG	CS
2020	1	9155	Inland Empire Energy Ctr LLC	IPP	Inland Empire Energy Center	CA	55853	2	345.0	Natural Gas Fired Combined Cycle	NG	CS
2020	1	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	1	307.0	Conventional Steam Coal	SUB	ST
2020	1	15298	Talen Montana LLC	IPP	Colstrip	MT	6076	2	307.0	Conventional Steam Coal	SUB	ST
2020	1	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	3	971.0	Conventional Steam Coal	BIT	ST
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Difwind Farms Ltd I	CA	54681	EXIS	7.3	Onshore Wind Turbine	WND	WT
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Difwind Farms Ltd II	CA	54682	EXIS	5.4	Onshore Wind Turbine	WND	WT
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Difwind Farms Ltd V	CA	54685	EXIS	11.6	Onshore Wind Turbine	WND	WT
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Terra-Gen 251 Wind LLC	CA	52161	WGNS	18.4	Onshore Wind Turbine	WND	WT
2020	1	2770	Terra-Gen Operating Co-Wind	IPP	Victory Garden Phase IV LLC	CA	52160	WGNS	22.0	Onshore Wind Turbine	WND	WT
2020	2	57463	Kimberly-Clark Worldwide Inc	Industrial	Fullerton Mill CHP	CA	58083	GTG1	12.0	Natural Gas Fired Combined Cycle	NG	CT
2020	2	57463	Kimberly-Clark Worldwide Inc	Industrial	Fullerton Mill CHP	CA	58083	STG1	1.0	Natural Gas Fired Combined Cycle	NG	CA
2020	2	2770	Terra-Gen Operating Co-Wind	IPP	Dutch Wind Energy	CA	57301	DEC	8.0	Onshore Wind Turbine	WND	WT
2020	3	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT5	14.6	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT6	15.6	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT7	14.5	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT8	16.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	1	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	10	49.0	Petroleum Liquids	DFO	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	2	48.0	Petroleum Liquids	DFO	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	3	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	4	48.0	Petroleum Liquids	DFO	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	6	43.0	Petroleum Liquids	DFO	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	7	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	3	3046	Duke Energy Progress - (NC)	Electric Utility	Darlington County	SC	3250	8	44.0	Petroleum Liquids	DFO	GT
2020	3	5860	Empire District Electric Co	Electric Utility	Asbury	MO	2076	1	198.0	Conventional Steam Coal	SUB	ST
2020	3	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	GEN5	8.5	Natural Gas Steam Turbine	NG	ST
2020	3	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	GEN6	8.5	Natural Gas Steam Turbine	NG	ST
2020	3	7049	General Electric Aircraft Engines	Industrial	General Electric Aircraft Engines	MA	10029	GEN7	6.8	Natural Gas Steam Turbine	NG	ST
2020	3	56046	High Plains Wind Power LLC	IPP	High Plains	TX	56834	1	10.0	Onshore Wind Turbine	WND	WT
2020	3	16668	Sabine Cogen LP	Electric CHP	Sabine Cogen	TX	55104	CTG1	33.1	Natural Gas Fired Combined Cycle	NG	CT
2020	3	16668	Sabine Cogen LP	Electric CHP	Sabine Cogen	TX	55104	CTG2	33.6	Natural Gas Fired Combined Cycle	NG	CT
2020	3	16668	Sabine Cogen LP	Electric CHP	Sabine Cogen	TX	55104	STG	20.0	Natural Gas Fired Combined Cycle	NG	CA
2020	3	22129	Somerset Operating Co LLC	IPP	Somerset Operating Co LLC	NY	6082	1	685.9	Conventional Steam Coal	BIT	ST
2020	3	2770	Terra-Gen Operating Co-Wind	IPP	Windland	CA	50386	WING	15.3	Onshore Wind Turbine	WND	WT
2020	4	6027	Entergy Nuclear Indian Point 2	IPP	Indian Point 2	NY	2497	2	1,016.1	Nuclear	NUC	ST

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
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Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	5	61012	AES Distributed Energy	IPP	Allis Medina Solar LLC	NY	63129	ALLIS	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	5	61012	AES Distributed Energy	IPP	Beals Medina Solar LLC	NY	63130	BEALS	3.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.5
2020	5	57416	Acciona Energy USA Global, LLC	IPP	Palmas Wind, LLC	TX	61773	PW	142.6	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	144.9
2020	5	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLSL3	136.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	136.8
2020	5	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLS4A	68.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	68.7
2020	5	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLS4B	68.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	68.7
2020	5	62835	Caden Energix Hickory LLC	IPP	Caden Energix Hickory LLC	VA	63084	ENX02	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2020	5	62835	Caden Energix Hickory LLC	IPP	Caden Energix Hickory LLC	VA	63084	ENX03	12.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	12.0
2020	5	62834	Caden Energix Pamplin LLC	IPP	Caden Energix Pamplin LLC	VA	63083	ENX04	15.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.7
2020	5	62900	Caden Energix Rives Road LLC	IPP	Caden Energix Rives Road LLC	VA	63087	ENX01	19.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.7
2020	5	2848	California Institute-Technology	Commercial	California Institute of Technology	CA	10262	GEN8	9.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	10.5
2020	5	7626	City of Greenfield - (IA)	Electric Utility	Greenfield	IA	1144	1	2.5	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.5
2020	5	7626	City of Greenfield - (IA)	Electric Utility	Greenfield	IA	1144	2	2.5	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.5
2020	5	62855	Clear Creek Wind, LLC	IPP	Clear Creek Wind	MO	63025	V110	22.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	22.0
2020	5	62855	Clear Creek Wind, LLC	IPP	Clear Creek Wind	MO	63025	V120	220.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	220.0
2020	5	56769	Consolidated Edison Development Inc.	IPP	CED Mason City Wind	IA	63521	MCW1	7.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	7.5
2020	5	60370	DG AMP Solar, LLC	IPP	DG AMP Rittman Rd	OH	62941	AMPRR	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6
2020	5	5109	DTE Electric Company	Electric Utility	Polaris Wind Park	MI	62290	1	168.6	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	168.6
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Debary Solar Power Plant	FL	62542	PV1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2020	5	62852	ESA Hamlet NC LLC	IPP	ESA Hamlet NC , LLC	NC	63377	PGR10	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	5	60496	Enerparc Inc.	IPP	Morgan Solar Center	OR	61855	MORGN	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2020	5	60496	Enerparc Inc.	IPP	Ontario Solar Center	OR	61860	ONTRO	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2020	5	60496	Enerparc Inc.	IPP	Vale Solar Center	OR	61856	VALE	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2020	5	62856	Forefront Power, LLC	IPP	Fresno Sunnyside High School	CA	63422	BA112	0.3	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.3
2020	5	61944	GSRP	IPP	Lafayette 2 - Internal Services Dept	CA	63527	GEN1	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2020	5	61944	GSRP	IPP	Lafayette 2 - MLK Jr. Hospital (MLK)	CA	63623	GEN1	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2020	5	62759	Geronimo Energy	IPP	Hydra Community Solar Garden, LLC	MN	63629	HYDRA	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	5	60719	Harvest Ridge Wind Farm	IPP	Broadlands Wind Farm	IL	61161	GEN01	202.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	202.0
2020	5	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG1	268.5	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	295.0
2020	5	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG2	268.5	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	295.0
2020	5	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	STG1	437.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	443.7
2020	5	9234	Indiana Municipal Power Agency	Electric Utility	Gas City Solar Park	IN	62767	SGASC	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2020	5	9234	Indiana Municipal Power Agency	Electric Utility	Scottsburg Solar Park	IN	62766	SCCOT	7.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	7.1
2020	5	49893	Invenergy Services LLC	IPP	Beech Ridge II Wind Energy Center	WV	62482	GEN1	56.2	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	56.2
2020	5	63172	Leven Garden LLC	IPP	Leven Garden Solar	MN	63425	CGS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	5	63001	MN CSG 2, LLC	IPP	Woodbury Solar	MN	63231	PV	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2020	5	62915	Madison Energy Holdings LLC	IPP	Houston/Winona Community Solar One LLC	MN	63534	52827	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	5	62915	Madison Energy Holdings LLC	IPP	Nicollet Community Solar One LLC	MN	63120	52828	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	5	62915	Madison Energy Holdings LLC	IPP	Winona Community Solar One LLC	MN	63532	52837	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	5	63174	Maston Garden LLC	IPP	Maston Garden Solar	MN	63434	CGS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	5	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN16	1.1	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	1.3
2020	5	56990	NJR Clean Energy Ventures Corporation	IPP	Campus Drive Solar	NJ	63334	CAMPS	3.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.7
2020	5	62849	Novel Byron Solar LLC CSG	IPP	Novel Byron Solar CSG	MN	62985	BYRN	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	5	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L1	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2020	5	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L2	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2020	5	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L3	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2020	5	62128	OEE XXX LLC	Industrial	Zephyr Wind Project - 2.0	OH	62653	T1	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2020	5	62128	OEE XXX LLC	Industrial	Zephyr Wind Project - 2.0	OH	62653	T2	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2020	5	62128	OEE XXX LLC	Industrial	Zephyr Wind Project - 2.0	OH	62653	T3	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2020	5	62788	Oberon Solar IA	IPP	Oberon IA	TX	62933	OBR1A	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	5	62789	Oberon Solar IB	IPP	Oberon IB	TX	62932	OBR1B	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2020	5	63183	Oxy Renewable Energy LLC	IPP	Oxy Renewable Energy - Goldsmith	TX	63388	SOLAR	16.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	16.8
2020	5	56215	RWE Renewables Americas LLC	IPP	Peyton Creek Wind Farm LLC	TX	62417	WT1	220.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	220.0
2020	5	63189	Rock County Wind Fuel, LLC	IPP	Rock County Wind Fuel, LLC	MN	63460	RCWF	5.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	5.0
2020	5	61634	SR Terrell, LLC	IPP	SR Terrell	GA	62058	TERRL	74.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.0
2020	5	62113	Sage Draw Wind, LLC	IPP	Sage Draw Wind	TX	62620	SD	338.4	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	338.4
2020	5	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Industries (2042-RD)	CA	63416	GEN1	8.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	8.4
2020	5	17650	Southern Power Co	IPP	Reading Wind Project	KS	60999	READW	200.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.1
2020	5	60531	Standard Solar	IPP	USS Christoffer Solar LLC CSG	MN	63152	CHRST	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	5	60531	Standard Solar	IPP	USS Solar Sources LLC CSG	MN	63151	SOURC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	5	60531	Standard Solar	IPP	USS Westeros Solar LLC CSG	MN	63140	USSWS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	5	60970	SunShare Management	IPP	Linden 01 CSG	MN	63179	KANE1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	5	60970	SunShare Management	IPP	Linden 02 CSG	MN	63182	LIND2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	5	60970	SunShare Management	IPP	Linden 03 CSG	MN	63183	LIND3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	5	62822	Syncarpha Blandford, LLC	IPP	Syncarpha Blandford Hybrid CSG	MA	62975	SYBLB	3.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.5
2020	5	62905	Syncarpha Taos I, LLC	IPP	Syncarpha Taos	NM	63123	SYNTA	3.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.1
2020	5	62919	TPE King Solar Holdings1 LLC	IPP	King CSG	RI	63135	KING2	7.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.8
2020	5	62828	TWE Bowman Solar Project, LLC	IPP	TWE Bowman Solar Project	SC	62828	BOW	73.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	75.0
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	232.9
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	232.9
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	257.4
2020	6	61524	226HC 8me LLC	IPP	Holstein 1 Solar Farm	TX	61962	HSF01	200.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	200.0
2020	6	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	50.0
2020	6	61012	AES Distributed Energy	IPP	Cronin Road Solar 1, LLC	MA	63011	CRONI	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2020	6	61012	AES Distributed Energy	IPP	Cycz Solar Project	MA	63472	BATT	1.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.3
2020	6	61012	AES Distributed Energy	IPP	Cycz Solar Project	MA	63472	CYCZ	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	6	61012	AES Distributed Energy	IPP	Finchville Solar, LLC	NY	62999	FINCH	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2020	6	61012	AES Distributed Energy	IPP	McDougle-Mitchell Solar Project	MA	63470	BATT	2.9	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.9
2020	6	61012	AES Distributed Energy	IPP	McDougle-Mitchell Solar Project	MA	63470	MCDMT	4.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.5
2020	6	61012	AES Distributed Energy	IPP	Partridge Hill Solar	MA	63264	PART3	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	6	61012	AES Distributed Energy	IPP	Partridge Solar Project	MA	63435	BATT	1.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.3
2020	6	61012	AES Distributed Energy	IPP	Partridge Solar Project	MA	63435	PRTDG	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	6	61012	AES Distributed Energy	IPP	Ryan Road Solar LLC	MA	63044	ORCHA	4.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.3

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	6	61012	AES Distributed Energy	IPP	W. Orange Rd Solar LLC	MA	63047	HEYES	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	6	63019	AGA TAG Solar III LLC	IPP	AGA TAG Solar III LLC	SC	63243	SCAG	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	6	62747	Acorn I Energy Storage LLC	IPP	Acorn I Energy Storage LLC	CA	62874	ACOR1	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	6	63208	Bighorn Solar, LLC	IPP	Bighorn Solar	OR	63467	PGR16	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2020	6	63205	Brush Creek Solar, LLC	IPP	Brush Creek Solar	OR	63464	PGR19	2.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.2
2020	6	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	GT2	115.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	135.0
2020	6	63260	Cobb Electric Membership Corporation	IPP	Solar BESS Hybrid	GA	63535	SOLAR	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2020	6	63260	Cobb Electric Membership Corporation	IPP	Solar BESS Hybrid	GA	63535	TEST	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	49846	Covanta Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.1
2020	6	62803	Cove Mountain Solar 2 LLC	IPP	Cove Mountain Solar 2	UT	62470	GEN01	122.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	122.0
2020	6	61060	Cypress Creek Renewables	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	6	61060	Cypress Creek Renewables	IPP	Wagyu	TX	63273	1215	120.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	120.0
2020	6	5248	Dominion Energy Inc	Electric Utility	Myrtle Solar	VA	63746	MYSO	15.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.0
2020	6	63207	Drift Creek Solar, LLC	IPP	Drift Creek Solar	OR	63466	PGR18	2.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.2
2020	6	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville-Rock Hill Battery	NC	63064	ES1	8.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	8.8
2020	6	61420	ENGIE Storage Services NA LLC	Commercial	Pacific Union College BESS	CA	61795	12649	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2020	6	61420	ENGIE Storage Services NA LLC	Commercial	San Diego International Airport BESS	CA	62754	BA	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	8.9
2020	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	8.9
2020	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	8.9
2020	6	58135	Ecos Energy LLC	IPP	Dickinson Solar (CT)	CT	63245	DCKN	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	6	58135	Ecos Energy LLC	IPP	Sydney Solar	CT	63244	SYDN	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	6	13478	Entergy New Orleans, LLC	Electric Utility	New Orleans Power	LA	60928	1	250.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	250.0
2020	6	63081	Exus North America Management Partners LLC	IPP	Bearkat II Wind Energy LLC	TX	63342	BKII	162.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	162.1
2020	6	62856	Forefront Power, LLC	IPP	DGS Wasco State Prison	CA	63418	1122	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2020	6	62856	Forefront Power, LLC	IPP	Reed Road Solar	IL	63071	1822	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2020	6	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG2	97.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	102.0
2020	6	61873	GA Solar 4	IPP	Twiggs Solar	GA	61696	TWIGG	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	6	60025	Greenbacker Renewable Energy Corporation	IPP	Renew Solar ABC Sacramento LLC	CA	62545	SACRA	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2020	6	63292	Harmony Florida Solar LLC	IPP	Harmony Solar	FL	63582	HFS	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	6	62638	Helen Solar LLC	IPP	Helen Solar CSG	MN	62706	SC	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2020	6	62046	High Lonesome Wind Power, LLC	IPP	High Lonesome Wind Power, LLC	TX	62562	HILO	449.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	449.5
2020	6	62046	High Lonesome Wind Power, LLC	IPP	High Lonesome Wind Power, LLC	TX	62562	HILO2	50.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	50.0
2020	6	9234	Indiana Municipal Power Agency	Electric Utility	Crawfordsville Solar Park 4	IN	62776	SCRA4	2.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.3
2020	6	9234	Indiana Municipal Power Agency	Electric Utility	Tell City Solar Park	IN	62790	STEL2	3.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.2
2020	6	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Whitetail Solar 3	PA	62991	PAWT3	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2020	6	61219	Longroad Energy Services LLC	IPP	Prospero Solar	TX	62755	PROSP	300.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	300.0
2020	6	63206	Minke Solar, LLC	IPP	Minke Solar	OR	63465	PGR20	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2020	6	63204	Mohea Solar Energy Center, LLC	IPP	Mohea Solar Energy Center, LLC	SC	63463	PGR14	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	6	63185	Neighborhood Power Corp.	IPP	Dunn Road Solar	OR	63642	W9736	1.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.8
2020	6	62640	Northfield Solar LLC	IPP	Northfield Solar CSG	MN	62708	SC	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	6	62864	Novel Haley Solar LLC CSG	IPP	Novel Haley Solar CSG	MN	63005	HALY	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	6	62847	Novel Pederson Solar LLC CSG	IPP	Novel Pederson Solar CSG	MN	62983	PED	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	6	63202	Pika Solar, LLC	IPP	Pika Solar	OR	63462	PGR17	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2020	6	62047	Roadrunner Solar, LLC	IPP	Roadrunner, LLC	TX	62561	RODR1	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82059	124.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	124.0
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82060	79.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	79.0
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82061	23.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	23.0
2020	6	63074	Scout Clean Energy LLC	IPP	Heart of Texas Wind Project	TX	61032	HTX	180.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	180.0
2020	6	60531	Standard Solar	IPP	Town of Burrillville Solar	RI	62898	X0042	4.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.2
2020	6	60531	Standard Solar	IPP	USS B&B Solar LLC CSG	MN	63216	BB	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Chariot Solar LLC	MN	63171	CHROT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Mayhew Solar LLC CSG	MN	63144	MAYHW	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Milkweed Solar LLC CSG	MN	63142	MLKWD	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Monarch Solar LLC CSG	MN	63147	MNRCH	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Sunrise Solar LLC CSG	MN	63141	SNRSE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	63290	Taylor Creek Solar LLC	IPP	Taylor Creek Solar	FL	63583	TCS	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	6	61980	Valta Energy	IPP	Mauka FIT One	HI	58662	3501	3.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.5
2020	6	62637	Walcott Solar LLC	IPP	Walcott Solar CSG	MN	62707	SC	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	6	62641	Warsaw Solar LLC	IPP	Warsaw Solar CSG	MN	62709	SC	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	6	58106	Western Michigan University	Commercial	Western Michigan University Power Plant	MI	58161	EG-10	2.5	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.5
2020	6	58106	Western Michigan University	Commercial	Western Michigan University Power Plant	MI	58161	EG-9	2.5	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.5
2020	7	63190	1009 Yadkin Solar, LLC	IPP	1009 Yadkin Solar	NC	63445	1009	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2020	7	61012	AES Distributed Energy	IPP	Lane Ave Solar LLC	MA	63041	HANRA	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2020	7	61012	AES Distributed Energy	IPP	Randall Solar Project	MA	63475	BATT	3.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.3
2020	7	61012	AES Distributed Energy	IPP	Randall Solar Project	MA	63475	RAND	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2020	7	61012	AES Distributed Energy	IPP	Wilbur Woods Solar LLC	MA	63048	DESMO	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	7	59613	BayWa r.e. Solar Projects LLC	IPP	Fern Solar LLC	NC	62798	FERN	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2020	7	62772	CA ODEVI LLC	IPP	Windsor Floating Solar	CA	62902	WUS15	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2020	7	63073	Chicot Solar, LLC	IPP	Chicot Solar	AR	63295	CHICO	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2020	7	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SFC1	3.7	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	3.7
2020	7	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SFC2	3.7	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	3.7
2020	7	56769	Consolidated Edison Development Inc.	IPP	CED Champaign Solar LLC	IL	62681	CSIL	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2020	7	56769	Consolidated Edison Development Inc.	IPP	CED Peoria Solar	IL	63656	PS1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	7	62800	DG Edison New Jersey LLC	IPP	DG Iron Mountain	NJ	62957	IRNMT	5.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.4
2020	7	15470	Duke Energy Indiana, LLC	Electric Utility	Nabb Battery Energy Storage System	IN	62862	ES1	5.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	5.0
2020	7	60853	ET CAP OR HOLDINGS LLC	IPP	OR Solar 2, LLC	OR	61200	ORSR2	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2020	7	58135	Ecos Energy LLC	IPP	Apple Hill Solar	VT	61037	APPL	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	7	62856	Forefront Power, LLC	IPP	Harmony Road Solar	IL	63069	1823	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2020	7	62856	Forefront Power, LLC	IPP	Square Barn Solar	IL	63070	1820	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2020	7	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TBG1	97.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	102.0
2020	7	63406	Freight Line Solar, LLC	IPP	Freight Line Solar, LLC	NC	63693	13503	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	7	7140	Georgia Power Co	Electric Utility	Kings Bay Solar Facility	GA	59864	BESS	1.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.5

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	7	7140	Georgia Power Co	Electric Utility	Moody Air Force Base Solar	GA	62377	1	49.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	49.5
2020	7	63408	Holly Swamp Solar, LLC	IPP	Holly Swamp Solar, LLC	NC	63695	13502	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	7	61251	LA3 West Baton Rouge, L.L.C.	IPP	LA3 West Baton Rouge Solar Facility	LA	61646	LA3WB	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	7	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Whitetail Solar 2	PA	62990	PAWT2	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2020	7	61219	Longroad Energy Services LLC	IPP	El Campo Wind	TX	62765	CAMPO	242.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	242.8
2020	7	11479	Madison Gas & Electric Co	Electric Utility	Middleton Airport Solar	WI	62731	1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	7	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	25.0
2020	7	62869	Novel Benedix Solar LLC CSG	IPP	Novel Benedix Solar CSG	MN	63010	BNDX	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	7	62865	Novel Holmquist Solar LLC CSG	IPP	Novel Holmquist Solar CSG	MN	63006	HOLM	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	7	62866	Novel MNDot Solar LLC CSG	IPP	Novel MNDot Solar CSG	MN	63007	MNDT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	7	62868	Novel Peter Solar LLC CSG	IPP	Novel Peter Solar CSG	MN	63009	PETR	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	7	62867	Novel Winegar Partnership Solar CSG	IPP	Novel Winegar Partnership Solar CSG	MN	63008	WINE	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	7	14063	Oklahoma Gas & Electric Co	Electric Utility	Chickasaw Nation Solar Farm	OK	63500	CVS1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	7	14063	Oklahoma Gas & Electric Co	Electric Utility	Choctaw Nation Solar Farm	OK	63499	CVS1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	7	63405	PG Solar, LLC	IPP	PG Solar, LLC	NC	63692	13504	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	7	61678	RE Rambler LLC	IPP	Rambler	TX	62141	RMBLR	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	7	56215	RWE Renewables Americas LLC	IPP	Cranell Wind Farm LLC	TX	62416	WT1	220.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	220.0
2020	7	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG4	3.5	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	3.5
2020	7	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG5	3.5	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	3.5
2020	7	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG6	3.5	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	3.5
2020	7	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG7	3.5	Other Waste Biomass	OBG	IC	(U) Under construction, less than or equal to 50 percent complete	3.5
2020	7	61677	Sol Systems	IPP	Ruff Solar LLC	NC	62594	11625	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	22.0
2020	7	17650	Southern Power Co	IPP	Skookumchuck Wind Facility	WA	63205	1	136.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	136.0
2020	7	62825	Syncarpha Northbridge II, LLC	IPP	Syncarpha Northbridge II Hybrid	MA	62978	SYN2S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	7	62955	USS Hancock Solar	IPP	USS Hancock Solar LLC CSG	MN	63167	HNCCK	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	7	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center	CA	60698	GT1	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2020	7	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center	CA	60698	GT2	45.9	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2020	8	63186	1001 Ebenezer Church Solar, LLC	IPP	1001 Ebenezer Church Solar	NC	63444	1001	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2020	8	60281	Altus Power America Management, LLC	IPP	FastSun 19 CSG	MN	63033	FS19	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	8	60281	Altus Power America Management, LLC	IPP	FastSun 2 CSG	MN	62696	FS2	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	8	62993	Aviator Wind, LLC	IPP	Aviator Wind	TX	63209	AVTOR	525.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	525.0
2020	8	63415	CO Buffalo Flats LLC	IPP	Rawhide Prairie Solar	CO	63722	BA1	1.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.0
2020	8	63415	CO Buffalo Flats LLC	IPP	Rawhide Prairie Solar	CO	63722	PV1	22.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	22.0
2020	8	63072	Cerro Gordo Wind Farm	IPP	Cerro Gordo Wind Farm	IA	63287	CGWF	42.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	42.0
2020	8	1515	City of Bellevue - (IA)	Electric Utility	Bellevue	IA	1126	1A	1.7	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.8
2020	8	59550	Croda Inc.	Industrial	Croda Atlas Point CHP	DE	59783	91199	2.0	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	8	61060	Cypress Creek Renewables	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.0
2020	8	61060	Cypress Creek Renewables	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	8	58970	Ecoplexus, Inc	IPP	HWY 158 PV	NC	63566	HW158	9.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	9.0
2020	8	56201	Engie North America	IPP	ENGIE Long Draw Solar LLC	TX	62845	SP1	225.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	225.0
2020	8	62856	Forefront Power, LLC	IPP	Fresno Sunnyside High School	CA	63422	1122	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2020	8	62856	Forefront Power, LLC	IPP	Mooseheart School Solar	IL	63073	1817	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	8	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	40.0
2020	8	60025	Greenbacker Renewable Energy Corporation	IPP	Solar Hagerstown	MD	62912	137	7.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2020	8	49893	Invenergy Services LLC	IPP	Millican Solar Energy LLC	OR	63050	GEN1	71.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	71.4
2020	8	49893	Invenergy Services LLC	IPP	Prineville Solar Energy LLC	OR	63049	GEN1	46.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	46.2
2020	8	63185	Neighborhood Power Corp.	IPP	Mt Hope Solar	OR	63663	W0053	2.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.5
2020	8	63185	Neighborhood Power Corp.	IPP	River Valley Solar	OR	63665	W0054	1.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.9
2020	8	63185	Neighborhood Power Corp.	IPP	Williams Acres Solar	OR	63664	W0055	2.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.5
2020	8	13484	New York Methodist Hospital	IPP	New York Methodist Hospital	NY	52091	CCHEG	1.5	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	1.5
2020	8	63014	Novel Debra Solar LLC	IPP	Novel Debra Solar LLC CSG	MN	63247	DEBRA	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	8	62848	Novel Jewison Solar LLC CSG	IPP	Novel Jewison Solar CSG	MN	62984	JEWI	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	8	62850	Novel Kanewischer Solar LLC CSG	IPP	Novel Kanewischer Solar CSG	MN	62986	KANE	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	63015	Novel Loren Solar LLC	IPP	Novel Loren Solar LLC CSG	MN	63248	LOREN	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	8	62846	Novel Schmoll Farms Solar LLC CSG	IPP	Novel Schmoll Farms Solar CSG	MN	62982	SCHM	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	63017	Novel Wayne Solar LLC	IPP	Novel Wayne Solar LLC CSG	MN	63249	WAYNE	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4A	122.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	122.0
2020	8	62633	Plum Creek Wind, LLC	IPP	Plum Creek Wind Project (NE)	NE	62711	PLUM	230.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	230.0
2020	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
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	37.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	41.5
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	37.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	41.5
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	37.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	41.5
2020	8	60531	Standard Solar	IPP	USS Cougar Solar LLC CSG	MN	63158	COUGR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS Flower Solar LLC CSG	MN	63159	FLOWR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS Horne North Solar LLC CSG	MN	63154	HORNN	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS Horne South Solar LLC CSG	MN	63155	HORNS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS JJ Clay Solar LLC CSG	MN	63156	JJCLY	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS Verde Solar LLC CSG	MN	63157	VERDE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62819	Syncarpha Halifax, LLC	IPP	Syncarpha Halifax Hybrid	MA	62973	SYHAS	1.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.7
2020	8	62821	Syncarpha Northampton, LLC	IPP	Syncarpha Northampton Hybrid	MA	62976	SYNOS	3.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.6
2020	8	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
2020	8	62946	USS All In Solar LLC	IPP	USS All In Solar LLC CSG	MN	63160	ALLIN	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62958	USS Kass Solar LLC	IPP	USS Kass Solar LLC	MN	63170	KASS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62701	Vista Solar, Inc.	IPP	Guittard Chocolates	CA	63190	GCHOC	1.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.5
2020	8	62701	Vista Solar, Inc.	IPP	Hopkinton Phase 2	RI	63191	HTP2	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2020	8	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSPV	3.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.4
2020	8	62748	Wildcat I Energy Storage LLC	IPP	Wildcat I Energy Storage LLC	CA	62875	WILD1	3.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.0
2020	9	61012	AES Distributed Energy	IPP	Greenwich Solar 1, LLC	NY	63411	RTE40	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	9	59474	BQ Energy LLC	IPP	Yeoman Creek	IL	61910	YEOM	8.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	8.8
2020	9	63373	Bitter Ridge Wind Farm, LLC	IPP	Bitter Ridge Wind Farm, LLC	IN	63666	BIT	130.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	130.0
2020	9	62805	Bluestone Farm Solar, LLC	IPP	Bluestone Solar	VA	62950	BLUE1	49.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.9
2020	9	63407	Butler Solar, LLC	IPP	Butler Solar, LLC	OR	63694	13501	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	9	56769	Consolidated Edison Development Inc.	IPP	Red Lake Falls Community Hybrid	MN	63689	RLFS	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)
2020	9	56769	Consolidated Edison Development Inc.	IPP	Red Lake Falls Community Hybrid	MN	63689	RLFW	4.6	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	4.6
2020	9	5109	DTE Electric Company	Electric Utility	Fairbanks Wind Park	MI	63600	1	72.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	72.5
2020	9	61610	Delaware River Solar, LLC	IPP	Route 22 Community Solar Farm	NY	62524	1444	3.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.7
2020	9	61610	Delaware River Solar, LLC	IPP	Yellow Mills Rd #1 Community Solar Farm	NY	62517	1142	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2020	9	61610	Delaware River Solar, LLC	IPP	Yellow Mills Rd #2 Community Solar Farm	NY	62518	1181	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2020	9	61610	Delaware River Solar, LLC	IPP	Yellow Mills Rd #3 Community Solar Farm	NY	62519	1244	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2020	9	5248	Dominion Energy Inc	Electric Utility	Grasshopper Solar	VA	62813	GRHS	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2020	9	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
2020	9	58970	Ecoplexus, Inc	IPP	Underwood PV2	NC	60998	UNWD2	16.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2020	9	62856	Forefront Power, LLC	IPP	UC Santa Cruz Solar	CA	63091	246	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2020	9	62720	Frontier Windpower II, LLC	IPP	Frontier Windpower II	OK	62837	FW2	351.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	351.8
2020	9	62759	Geronimo Energy	IPP	Aster Community Solar Garden, LLC	MN	63305	ASTER	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Geranium Solar, LLC	MN	63317	GERNM	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Hyacinth Solar, LLC	MN	63312	HYCIN	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Iris Solar, LLC (MN)	MN	63319	IRIS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Kerria Solar, LLC	MN	63315	KERIA	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62759	Geronimo Energy	IPP	Primrose Solar, LLC	MN	63314	PROSE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62696	Gichi Noodin Wind Farm, LLC	IPP	Gichi Noodin Wind Farm	MI	62815	GNWF1	72.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	72.8
2020	9	63084	Gulfwinds Generation, LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	9	61001	Hu Honua Bioenergy, LLC	IPP	Hu Honua Bioenergy Facility	HI	61364	HHB	32.0	Other Waste Biomass	OBS	ST	(V) Under construction, more than 50 percent complete	36.0
2020	9	9191	Idaho Power Co	Electric Utility	Shoshone Falls	ID	818	4	3.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	3.2
2020	9	9234	Indiana Municipal Power Agency	Electric Utility	Centerville Solar Park	IN	62794	SCENT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	9234	Indiana Municipal Power Agency	Electric Utility	Crawfordsville 5 Solar Park	IN	62793	SCRA5	9.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	9.7
2020	9	9417	Interstate Power and Light Co	Electric Utility	Richland	IA	62080	1	130.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	130.1
2020	9	63289	Key Capture Energy	IPP	NY3 Battery	NY	63585	NY3	3.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	3.0
2020	9	10273	Kimberly-Clark Corp	Industrial	Chester Operations	PA	50410	6	14.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	17.3
2020	9	62897	MSB Investors, LLC	Electric CHP	ReSource Center	CA	63094	SBAD1	1.1	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	1.1
2020	9	62897	MSB Investors, LLC	Electric CHP	ReSource Center	CA	63094	SBAD2	1.1	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	1.1
2020	9	62726	Mountain Breeze Wind, LLC	IPP	Mountain Breeze Wind, LLC	CO	62840	MTBRZ	170.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	170.0
2020	9	56990	NJR Clean Energy Ventures Corporation	IPP	ACCP NJ 1	NJ	63198	ACCP1	1.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.2
2020	9	56990	NJR Clean Energy Ventures Corporation	IPP	Galloway Landfill	NJ	63698	GALLO	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2020	9	56990	NJR Clean Energy Ventures Corporation	IPP	Monroe Solar Farm, LLC	NJ	63451	MONR1	13.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	13.1
2020	9	63331	Organic Energy Solutions, Inc.	Electric CHP	OES Biogas Power	CA	63622	OES01	1.3	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	1.3
2020	9	63331	Organic Energy Solutions, Inc.	Electric CHP	OES Biogas Power	CA	63622	OES02	1.3	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	1.3
2020	9	61521	Pegasus Wind, LLC	IPP	Pegasus Wind	MI	61916	PWEC2	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	9	61592	Pleinmont Solar 1 LLC	IPP	Pleinmont Solar 1	VA	62012	PLNM1	75.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	9	15466	Public Service Co of Colorado	Electric Utility	Cheyenne Ridge Wind Farm	CO	62952	CRW01	488.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	498.4
2020	9	56215	RWE Renewables Americas LLC	IPP	Raymond Wind Farm, LLC	TX	62909	ERAYM	200.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.2
2020	9	62047	Roadrunner Solar, LLC	IPP	Roadrunner, LLC	TX	62561	RODR2	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2020	9	62844	Spring Hope Solar 3, LLC	IPP	Spring Hope Solar 3, LLC	NC	62997	PGR09	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2020	9	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	9	62821	Syncarpha Northampton, LLC	IPP	Syncarpha Northampton Hybrid	MA	62976	SYNOB	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	9	62825	Syncarpha Northbridge II, LLC	IPP	Syncarpha Northbridge II Hybrid	MA	62978	SYN2B	3.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.0
2020	9	62044	TG High Prairie Wind, LLC	IPP	High Prairie Wind Farm	MO	62563	HPWF	400.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	400.0
2020	9	61534	Techren Solar III LLC	IPP	Techren Solar III LLC	NV	61931	TECH3	25.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	25.0
2020	9	61535	Techren Solar IV LLC	IPP	Techren Solar IV LLC	NV	61932	TECH4	25.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	25.0
2020	9	61890	Tenaska Nobles 2 Power Partners, LLC	IPP	Nobles 2 Wind Project	MN	62364	WT1	250.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.0
2020	9	24211	Tucson Electric Power Co	Electric Utility	Oso Grande Wind Farm	NM	63502	OGW24	33.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.8
2020	9	24211	Tucson Electric Power Co	Electric Utility	Oso Grande Wind Farm	NM	63502	OGW45	216.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	216.0
2020	9	62701	Vista Solar, Inc.	IPP	Bio-Rad	CA	63189	BIORD	2.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2020	10	63193	1045 Tomlin Mill Solar, LLC	IPP	1045 Tomlin Mill Solar	NC	63448	1045	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2020	10	63191	1073 Onslow Solar, LLC	IPP	1073 Onslow Solar	NC	63446	1073	4.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.7
2020	10	61012	AES Distributed Energy	IPP	Middletown Solar 1, LLC	NY	63415	BATT	1.6	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.6
2020	10	61012	AES Distributed Energy	IPP	Middletown Solar 1, LLC	NY	63415	CENTR	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2020	10	59474	BQ Energy LLC	IPP	West Valley East	NY	62738	WVE	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	10	59474	BQ Energy LLC	IPP	West Valley West	NY	62737	WVW	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	10	2265	Bristol-Myers Squibb Co	IPP	Bristol Myers Squibb Lawrenceville	NJ	58947	TG102	5.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	5.4
2020	10	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
2020	10	61610	Delaware River Solar, LLC	IPP	Big Tree Community Solar Farm	NY	62476	607	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	61610	Delaware River Solar, LLC	IPP	Route 19 #1 Community Solar Farm	NY	62500	1258	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	10	61610	Delaware River Solar, LLC	IPP	Route 19 #2 Community Solar Farm	NY	62502	1415	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	10	61610	Delaware River Solar, LLC	IPP	Route 5 & 20 Community Solar Farm	NY	62523	1093	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2020	10	61610	Delaware River Solar, LLC	IPP	State Route 64N Community Solar Farm	NY	62520	1089	1.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.2
2020	10	61610	Delaware River Solar, LLC	IPP	Telegraph Rd #1 Community Solar Farm	NY	62496	1268	3.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.8
2020	10	61610	Delaware River Solar, LLC	IPP	Telegraph Rd #2 Community Solar Farm	NY	62498	1413	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	10	57170	EDF Renewable Asset Holdings, Inc.	IPP	Coyote Wind LLC	TX	63655	COY	242.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	242.5
2020	10	56201	Engie North America	IPP	Prairie Hill Wind Project	TX	63100	WTG	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2020	10	63437	Helena Wind, LLC	IPP	Helena Wind	TX	63738	HEL	175.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	175.0
2020	10	63417	ISM Solar Cranston, LLC	IPP	ISM Solar Cranston	RI	63718	CR	3.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.4
2020	10	61853	Innogy Renewables US LLC	IPP	Scioto Ridge Wind Farm	OH	58780	1	249.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	249.8
2020	10	49893	Invenergy Services LLC	IPP	Harry Allen Solar Energy LLC	NV	63080	GEN1	118.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	118.8
2020	10	59685	JPMorgan Chase Bank	Commercial	South Campus Solar	DE	59922	G1789	1.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.8
2020	10	63244	KSI II Consolidated, LLC	IPP	County Route 11 Community Solar Farm	NY	62507	1419	4.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.1
2020	10	63244	KSI II Consolidated, LLC	IPP	Frey Rd #1 Community Solar Farm	NY	62504	1159	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	10	63244	KSI II Consolidated, LLC	IPP	Frey Rd #2 Community Solar Farm	NY	62521	1442	1.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.4
2020	10	63244	KSI II Consolidated, LLC	IPP	Furnace Rd Community Solar Farm	NY	62508	1420	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2020	10	63431	Las Majadas Wind Farm, LLC	IPP	Las Majadas Wind Farm	TX	63739	LMAJ	272.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	272.6
2020	10	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Wildflower Solar 1	CA	62988	CAWF1	13.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	13.0
2020	10	61219	Longroad Energy Services LLC	IPP	Weaver Wind	ME	63132	WEAVR	72.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	72.6
2020	10	63394	MSAP 13, LLC	IPP	MSAP 13	NY	63675	TROYL	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	10	63299	Ponderosa Wind, LLC	IPP	Ponderosa Wind Energy Center	OK	63590	PONDE	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	10	62778	Rattlesnake Flat, LLC	IPP	Rattlesnake	WA	62936	RAT	144.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	144.0
2020	10	63164	Robin Solar, LLC	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	10	63374	Sanford Airport Solar, LLC	IPP	Sanford Solar	ME	63667	SAS	49.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.4
2020	10	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	72.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	75.0
2020	10	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	72.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	75.0
2020	10	63432	SkyHigh 2 Solar	Commercial	Amazon - Moreno Valley	CA	63740	ONT6	2.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.2
2020	10	61677	Sol Systems	IPP	ESA Buies Creek, LLC	NC	63732	11630	2.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.8
2020	10	60568	Sugar Creek Wind One LLC	IPP	Sugar Creek Wind One LLC	IL	58924	SUG1	202.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	202.0
2020	10	62814	Syncarpha Leicester, LLC	IPP	Syncarpha Leicester Hybrid	MA	62972	SYLES	2.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.6
2020	10	62826	Syncarpha Puddon I, LLC	IPP	Syncarpha Puddon I Hybrid	MA	62969	SYP1S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	10	62827	Syncarpha Puddon II, LLC	IPP	Syncarpha Puddon II Hybrid	MA	62970	SYP2S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	10	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
2020	10	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	1	27.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	18.2
2020	10	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	2	27.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	18.2
2020	10	20856	Wisconsin Power & Light Co	Electric Utility	Kossuth	IA	62103	1	152.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	152.2
2020	11	63192	1008 Matthews Solar, LLC	IPP	1008 Matthews Solar	NC	63447	1008	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2020	11	61012	AES Distributed Energy	IPP	Alicea Solar Project	MA	63469	ALICA	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	11	61012	AES Distributed Energy	IPP	Alicea Solar Project	MA	63469	BATT	1.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.5
2020	11	61012	AES Distributed Energy	IPP	Annese Solar Project	MA	63474	ANNES	4.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.6
2020	11	61012	AES Distributed Energy	IPP	Annese Solar Project	MA	63474	BATT	3.2	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.2
2020	11	61012	AES Distributed Energy	IPP	West A&B Solar Project	MA	63473	BATT	1.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.8
2020	11	61012	AES Distributed Energy	IPP	West A&B Solar Project	MA	63473	WEST	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.5
2020	11	61683	Amadeus Wind LLC	IPP	Amadeus Wind Farm	TX	62142	AM-TX	250.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.0
2020	11	63419	Augusta Solar, LLC	IPP	Augusta Solar	SC	63720	PGR23	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	11	62881	Chambers Road Solar LLC	IPP	Chambers Road Solar	NY	62860	263	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	11	60609	Clean Focus Renewables, Inc.	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2020	11	56769	Consolidated Edison Development Inc.	IPP	Water Strider Solar	VA	63549	WSS	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	11	63064	Crowned Ridge Wind II LLC	IPP	Crowned Ridge Wind II Energy Center	SD	63269	CRW2	200.6	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.6
2020	11	5109	DTE Electric Company	Electric Utility	Isabella Wind Park	MI	63601	1	383.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	383.5
2020	11	58468	Dominion Renewable Energy	Electric Utility	Spring Grove I	VA	61986	SGIS	97.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	97.9
2020	11	56201	Engie North America	IPP	King Plains Wind Project	OK	63104	WTG	250.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.2
2020	11	56201	Engie North America	IPP	Triple H Wind Project	SD	63103	WTG	250.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.2
2020	11	62759	Geronimo Energy	IPP	Allium Community Solar Garden, LLC	MN	63304	ALIUM	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Bellflower Solar, LLC	MN	63318	BELLF	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Coral Bells Solar, LLC	MN	63313	CORAL	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Honeysuckle Solar, LLC	MN	63309	HONEY	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Lantana Solar, LLC	MN	63311	LANTA	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Marigold Community Solar Garden, LLC	MN	63308	MGOLD	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Westport Community Solar, LLC	MN	63307	WESTP	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	60222	Haida Energy, Inc.	Electric Utility	Hiilangaay Hydro	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	5.0
2020	11	62879	Hickory Grove #1 LLC	IPP	Hickory Grove #1	NY	62831	25	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	11	62880	Hickory Grove #2	IPP	Hickory Grove #2	NY	62832	309	1.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.7
2020	11	63404	Hunker Solar River, LLC	IPP	Hunker Solar River, LLC	PA	63691	13502	3.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.3
2020	11	9234	Indiana Municipal Power Agency	Electric Utility	Richmond Solar Park 4	IN	62791	SRIC4	7.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.1
2020	11	49893	Invenergy Services LLC	IPP	Crescent Valley Solar	NV	62888	GEN1	149.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	149.0
2020	11	49893	Invenergy Services LLC	IPP	Lovelock Solar	NV	62934	GEN1	190.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	190.0
2020	11	63128	Jordan Creek Wind Farm, LLC	IPP	Jordan Creek Wind Farm, LLC	IN	63389	JCW	400.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	400.0
2020	11	58201	Milford Solar LLC	IPP	Milford Solar 1	UT	62812	MS1	99.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	99.0
2020	11	62758	Orchard Windfarm, LLC	IPP	Orchard Windfarm, LLC	OR	62935	OCHW	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2020	11	14232	Otter Tail Power Co	Electric Utility	Merricourt Wind Energy Center	ND	57048	1	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	11	14354	PacifiCorp	Electric Utility	Ekola Flats	WY	62591	1	250.9	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	250.9
2020	11	14354	PacifiCorp	Electric Utility	TB Flats	WY	62516	1	503.2	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	503.2
2020	11	61677	Sol Systems	IPP	Eros Solar, LLC	NC	63733	11631	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	11	61677	Sol Systems	IPP	Ventura Solar, LLC	NC	63734	11632	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	11	60531	Standard Solar	IPP	USS KVPV Solar LLC	MN	63169	KVPV	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	60531	Standard Solar	IPP	USS Steamboat Solar LLC CSG	MN	63221	STMBT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	61668	Strauss Wind LLC	IPP	Strauss Wind Farm	CA	62113	ST-CA	98.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	98.8
2020	11	62814	Syncarpha Leicester, LLC	IPP	Syncarpha Leicester Hybrid	MA	62972	SYLEB	1.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.9
2020	11	62824	Syncarpha Northbridge I, LLC	IPP	Syncarpha Northbridge I Hybrid	MA	62977	SYN1S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	11	62826	Syncarpha Puddon I, LLC	IPP	Syncarpha Puddon I Hybrid	MA	62969	SYP1B	4.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	11	62827	Syncarpha Puddon II, LLC	IPP	Syncarpha Puddon II Hybrid	MA	62970	SYP2B	4.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	11	62954	USS Bush Solar LLC	IPP	USS Bush Solar LLC CSG	MN	63166	BUSH	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62973	USS Dot Com Solar LLC	IPP	USS Dot Com Solar LLC CSG	MN	63215	DOTCM	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	11	62956	USS Pheasant Solar LLC	IPP	USS Pheasant Solar LLC	MN	63168	PHSNT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62953	USS Reindeer Solar LLC	IPP	USS Reindeer Solar LLC CSG	MN	63165	RENDR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62978	USS Water City Solar LLC	IPP	USS Water City Solar LLC CSG	MN	63220	WTRCY	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2020	11	62977	USS Water Fowl Solar LLC	IPP	USS Water Fowl Solar LLC CSG	MN	63219	WTRFL	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2020	11	62976	USS Water Town Solar LLC	IPP	USS Water Town Solar LLC CSG	MN	63218	WTRTN	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2020	12	62685	10 Briggs Solar NG, LLC	IPP	10 Briggs Solar NG, LLC (East)	RI	62781	02818	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	12	62006	7X Energy, Inc.	IPP	Taygete Energy Project LLC	TX	62483	PV1	255.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	255.0
2020	12	62984	AC Power 2 LLC	IPP	AC Power 2	NJ	63196	ACP2	3.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.8
2020	12	57416	Acciona Energy USA Global, LLC	IPP	La Chalupa, LLC	TX	63624	LC	198.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	198.5
2020	12	62981	Aero Haven Solar LLC	IPP	Aero Haven Solar	NJ	63195	ACP3	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	12	62627	Alchemy Renewable Energy	IPP	Twittys Creek Solar, LLC	VA	63077	VATC	13.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	13.8
2020	12	59496	Allete Clean Energy	IPP	Diamond Spring, LLC	OK	63327	46001	303.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	303.0
2020	12	62119	Antelope Expansion 3A, LLC	IPP	Antelope Expansion 3A	CA	62673	ANX3A	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2020	12	62118	Antelope Expansion 3B, LLC	IPP	Antelope Expansion 3B	CA	62674	ANX3B	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2020	12	61949	Assembly Solar I, LLC	IPP	Assembly Solar Project	MI	62422	ASP01	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	12	63021	Aurora Wind Project, LLC	IPP	Aurora Wind Project	ND	63258	AURWP	298.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	298.8
2020	12	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	WT1	306.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	306.2
2020	12	15399	Avangrid Renewables LLC	IPP	Roaring Brook, LLC	NY	61041	WT1	78.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	78.0
2020	12	15399	Avangrid Renewables LLC	IPP	Tatanka Ridge	SD	61046	WT1	154.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	154.0
2020	12	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
2020	12	62680	BT Coniglio Solar LLC	IPP	Coniglio Solar	TX	62772	BTCON	135.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	135.0
2020	12	62681	BT Cooke Solar, LLC	IPP	Rippey Solar	TX	62773	BTCOO	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0

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	62682	BT Kellam Solar LLC	IPP	Kellam Solar	TX	62774	BTKEL	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2020	12	61714	Battle Solar	IPP	Battle Solar	SC	62182	24	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	12	56771	Black Hills Service Company LLC	Electric Utility	Corriedale Wind Energy	WY	63436	WTG	52.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	52.5
2020	12	63116	Bluebell Solar II, LLC	IPP	Bluebell Solar II	TX	63351	BBS2	115.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	115.0
2020	12	60816	Boston Medical Center	Commercial	Boston Medical Center CHP Plant	MA	61186	BATT	1.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62995	Broad Mountain Power LLC	IPP	Broad Mountain Wind Project	PA	63210	BROAD	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	12	62718	Broad River Solar, LLC	IPP	Broad River Solar, LLC	NC	62822	GEN1	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2020	12	63295	Brooten CSG1 LLC	IPP	Brooten CSG1, LLC	MN	63593	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63296	Buffalo Lake CSG1 LLC	IPP	Buffalo Lake CSG1, LLC	MN	63594	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	60714	Burke Wind LLC	IPP	Burke Wind, LLC	ND	61100	GE23	199.4	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	199.4
2020	12	59365	Capital Power Corporation	IPP	Nolin Hills Wind, LLC	OR	60070	GEN	350.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	350.0
2020	12	62872	Carolina Lily Solar, LLC	IPP	Carolina Lily Solar	NC	63016	1096	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	12	61817	Collard Holdings, LLC	IPP	Collard Holdings Solar	NC	62317	PV	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2020	12	62705	Concho Bluff LLC	IPP	Greasewood	TX	62804	GREA1	255.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	255.0
2020	12	4226	Consolidated Edison Co-NY Inc	Electric Utility	98th Street Battery Storage Station	NY	62839	ESS98	1.8	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.0
2020	12	57365	Consolidated Edison Solutions Inc	IPP	CES Marbletown Solar	NY	63729	MT1	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2020	12	4254	Consumers Energy Co	Electric Utility	Crescent Wind Park	MI	63686	GFWP	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	12	4254	Consumers Energy Co	Electric Utility	Gratiot Farms Wind Project	MI	63687	CWP	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	12	61978	Convergent Energy and Power LP	IPP	Henrietta D Energy Storage LLC	CA	60641	HDES1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2020	12	62802	Cove Mountain Solar LLC	IPP	Cove Mountain Solar	UT	62469	GEN01	58.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	58.0
2020	12	61060	Cypress Creek Renewables	IPP	Jester Solar	NC	60290	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2020	12	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
2020	12	61709	Desert Harvest, LLC	IPP	Desert Harvest, LLC	CA	62177	DH001	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2020	12	5248	Dominion Energy Inc	Electric Utility	Greensville Solar	VA	63745	GVSO	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2020	12	5248	Dominion Energy Inc	Electric Utility	Sadler Solar	VA	62814	SADL	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2020	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Gaston Solar Power Plant	NC	62669	PV1	25.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	25.0
2020	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Maiden Creek Solar Power Plant	NC	62668	PV1	69.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	69.3
2020	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	BAT1	300.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	300.0
2020	12	61785	EDP Renewables North America LLC	IPP	Crossing Trails Wind Farm	CO	62489	GEN1	104.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	104.0
2020	12	61785	EDP Renewables North America LLC	IPP	Headwaters Wind Farm II LLC	IN	62592	HWII	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2020	12	62667	East Line Solar, LLC	IPP	East Line Solar	AZ	62899	EASTL	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2020	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
2020	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
2020	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
2020	12	5860	Empire District Electric Co	Electric Utility	Kings Point Wind Energy Center	MO	62475	KPW1	149.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	149.4
2020	12	5860	Empire District Electric Co	Electric Utility	Neosho Ridge Wind Energy Center	KS	62481	NRW1	301.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	301.0
2020	12	5860	Empire District Electric Co	Electric Utility	North Fork Ridge Wind Energy Center	MO	62478	NFRW1	149.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	149.4
2020	12	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
2020	12	60496	Enerparc Inc.	IPP	Pawcatuck Solar Center, LLC	CT	62318	PAWCA	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2020	12	56201	Engie North America	IPP	Dakota Range III Wind Project	SD	63102	WTG	151.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	151.2
2020	12	56201	Engie North America	IPP	Las Lomas Wind Project	TX	63101	WTG	201.6	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	201.6
2020	12	59497	Eversource	IPP	Martha's Vineyard Community Battery	MA	62605	MVESS	4.9	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	4.9
2020	12	59497	Eversource	IPP	Outer Cape Community Battery	MA	62604	OCESS	25.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	25.0
2020	12	56615	First Solar Project Development	IPP	American Kings Solar, LLC	CA	60777	GEN01	123.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	123.0
2020	12	56625	Flat Water Wind Farm LLC	IPP	Flat Water Wind Farm LLC	NE	57283	WTG2	6.9	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	6.9
2020	12	63345	Flodquist Community Solar LLC	IPP	Flodquist Community Solar LLC	MN	63650	TC3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	6452	Florida Power & Light Co	Electric Utility	Egret Solar Center	FL	62925	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Lakeside Solar Center	FL	62922	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Magnolia Springs Solar Center	FL	62915	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Nassau Solar Center	FL	62914	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Trailside Solar Center	FL	62916	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Union Springs Solar Center	FL	62923	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	62856	Forefront Power, LLC	IPP	DGS Central California Womens Facility	CA	63419	1122	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	7140	Georgia Power Co	Electric Utility	Robins Air Force Base Solar	GA	61648	1	139.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	139.0
2020	12	62759	Geronimo Energy	IPP	Bingham Solar, LLC	MI	63321	BINGH	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2020	12	62759	Geronimo Energy	IPP	Temperance Solar, LLC	MI	63322	TEMPR	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2020	12	63108	Granby Solar, LLC	IPP	Granby Solar, LLC	MA	63338	4787	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2020	12	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH2	3.7	Other Natural Gas	NG	FC	(V) Under construction, more than 50 percent complete	3.7
2020	12	61594	Highlander Solar Station 1 LLC	IPP	Highlander Solar Station 1	VA	62014	HLND1	165.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	165.0
2020	12	61697	Hillcrest Solar I, LLC	IPP	Hillcrest Solar	OH	62200	HILLC	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	12	62134	Hunter Solar LLC	IPP	Hunter Solar LLC	UT	62656	HUSOL	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2020	12	61853	Innogy Renewables US LLC	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	126.0
2020	12	61853	Innogy Renewables US LLC	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	61853	Innogy Renewables US LLC	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
2020	12	61853	Innogy Renewables US LLC	IPP	Mason Dixon Wind Farm	PA	60212	1	79.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	79.9
2020	12	61853	Innogy Renewables US LLC	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
2020	12	61853	Innogy Renewables US LLC	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
2020	12	49893	Invenergy Services LLC	IPP	Deuel Harvest Wind Energy LLC	SD	62943	GEN1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2020	12	49893	Invenergy Services LLC	IPP	Hardin Solar Energy LLC	OH	63029	GEN1	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	12	49893	Invenergy Services LLC	IPP	Sundance Wind Project, LLC	OK	63489	GEN1	199.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	199.0
2020	12	49893	Invenergy Services LLC	IPP	Thunderhead Wind Energy LLC	NE	62956	GEN1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2020	12	49893	Invenergy Services LLC	IPP	Traverse Wind Project, LLC	OK	63479	GEN1	999.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	999.0
2020	12	61751	Juniper Solar	IPP	Juniper Solar	SC	62234	48	65.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	65.5
2020	12	62883	Kruger Energy Hertford, LLC	IPP	Kruger Energy Hertford, LLC	NC	63024	KEH	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2020	12	59195	Landfill Energy Systems	IPP	Zimmerman Energy	IN	59425	ZE#4	1.4	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2020	12	50123	Leeward Asset Management, LLC	IPP	Lone Tree Wind, LLC	IL	63251	LTW	79.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	79.0
2020	12	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Impact Solar 1	TX	63222	TXIM1	198.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	198.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	1	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	2	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	3	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	4	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	62661	Lock 12 Hydro Partners, LLC	IPP	Ravenna Hydroelectric Project	KY	62747	5	0.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.5
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear 3	CA	62463	GEN01	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)
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear 4	CA	62464	GEN01	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear 5	CA	62465	GEN01	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear Solar 1, LLC	CA	59870	GEN01	40.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	40.0
2020	12	63300	Lowry CSG2 LLC	IPP	Lowry CSG2, LLC	MN	63595	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62721	Maryneal Windpower, LLC	IPP	Maryneal Windpower	TX	62836	MNW	182.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	182.4
2020	12	61710	Maverick Solar, LLC	IPP	Maverick Solar, LLC	CA	62178	MAV01	225.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	225.0
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	11	0.4	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	12	0.4	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	13	0.4	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	14	0.4	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	0.4
2020	12	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN6	1.2	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	1.2
2020	12	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN7	1.2	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	1.2
2020	12	12341	MidAmerican Energy Co	Electric Utility	Contrail Wind Farm	IA	63639	COWF	112.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	112.4
2020	12	12341	MidAmerican Energy Co	Electric Utility	Diamond Trail Wind Farm	IA	63641	DTWF	252.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	252.5
2020	12	12341	MidAmerican Energy Co	Electric Utility	Palo Alto Wind Farm	IA	63053	PAWF2	90.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	90.0
2020	12	12341	MidAmerican Energy Co	Electric Utility	Southern Hills Wind Farm	IA	63640	SHWF	254.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	254.1
2020	12	62916	Mohave County Wind Farm	IPP	Mohave County Wind Farm	AZ	63114	MCWF	350.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	350.0
2020	12	60018	NET Power, LLC	IPP	NET Power La Porte Station	TX	60910	NPLPS	25.5	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	25.5
2020	12	15296	New York Power Authority	Electric Utility	Willis Battery Storage	NY	63238	WB1	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
2020	12	13781	Northern States Power Co - Minnesota	IPP	Blazing Star 2 Wind Farm	MN	61650	BLZS2	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	12	63294	Nutmeg Solar LLC	IPP	Nutmeg Solar	CT	63592	NUTMG	19.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.6
2020	12	14232	Otter Tail Power Co	Electric Utility	Astoria Station	SD	61144	1	245.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	349.0
2020	12	63279	Outlaw Wind Project LLC	IPP	Outlaw Wind Project LLC	MO	63574	GEN1	298.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	298.6
2020	12	63301	Paynesville CSG1 LLC	IPP	Paynesville CSG1, LLC	MN	63596	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62985	Pettinos Solar LLC	IPP	Pettinos Solar	NJ	63197	ACP4	1.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.2
2020	12	62689	Piney Creek, LLC	IPP	Piney Creek Solar	VA	62768	PCSOL	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2020	12	63302	Plato CSG1 LLC	IPP	Plato CSG1, LLC	MN	63597	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62873	Plott Hound Solar, LLC	IPP	Plott Hound Solar	NC	63015	1088	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	12	15248	Portland General Electric Co	Electric Utility	Faraday	OR	3045	7	9.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	9.0
2020	12	15248	Portland General Electric Co	Electric Utility	Faraday	OR	3045	8	9.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	9.0
2020	12	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV1	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2020	12	62780	RE Slate LLC	IPP	Slate	CA	63727	SLATE	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2020	12	56215	RWE Renewables Americas LLC	IPP	Boiling Springs Wind Farm	OK	62871	BGSPS	148.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	148.4
2020	12	56215	RWE Renewables Americas LLC	IPP	West Raymond Wind Farm LLC	TX	62855	WRAYM	239.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	239.8
2020	12	63141	Rancho Seco Solar II, LLC	IPP	Rancho Seco Solar II, LLC	CA	63387	RSS2	160.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	160.0
2020	12	62871	Ray Wilson Solar, LLC	IPP	Ray Wilson Solar	NC	63017	1090	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	12	61727	Reloj del Sol Wind Farm LLC	IPP	Reloj del Sol Wind Farm	TX	62207	RELOJ	209.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	209.4
2020	12	61590	Richmond Spider Solar LLC	IPP	Richmond Spider Solar	VA	62011	RMDSS	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	12	62761	Rosewater Wind Farm LLC	IPP	Rosewater Wind Farm	IN	62891	ROSEW	102.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	102.0
2020	12	62743	RoxWind LLC	IPP	RoxWind	ME	62857	WIND1	15.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	15.3
2020	12	61624	SR Snipesville	IPP	Snipesville	GA	62165	SNIPE	61.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	61.0
2020	12	63303	Sacred Heart CSG1 LLC	IPP	Sacred Heart CSG1, LLC	MN	63598	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63366	Schueler Community Solar LLC	IPP	Schueler Community Solar	MN	63658	TC3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63119	Scotch Bonnet Solar, LLC	IPP	Scotch Bonnet Solar, LLC	NC	63345	PGR07	4.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.5
2020	12	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2020	12	63365	Siems Community Solar LLC	IPP	Siems Solar Project	MN	63657	TC3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62146	Sigurd Solar LLC	IPP	Sigurd Solar LLC	UT	62666	SGSOL	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SKC	250.0	Onshore Wind Turbine	WND	WT	(OT) Other	250.0
2020	12	63137	Solar Frontier Americas Development	IPP	Mustang Two	CA	62015	M2BAR	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	12	63137	Solar Frontier Americas Development	IPP	Mustang Two	CA	62015	M2WHI	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2020	12	63137	Solar Frontier Americas Development	IPP	Pioneer Solar (CO), LLC	CO	61991	PI-QF	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	12	17609	Southern California Edison Co	Electric Utility	Cadillac Battery Energy Storage Facility	CA	63326	CAD1	3.5	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	3.5
2020	12	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
2020	12	17609	Southern California Edison Co	Electric Utility	DESI-2 Battery Storage Facility	CA	62460	DESI2	1.4	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.4
2020	12	17609	Southern California Edison Co	Electric Utility	Yorktown Battery Energy Storage Facility	CA	63325	YORK1	3.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	3.0
2020	12	17718	Southwestern Public Service Co	Electric Utility	Sagamore Wind	NM	63578	SWF01	522.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	522.0
2020	12	62717	Speedway Solar NC, LLC	IPP	Speedway Solar NC, LLC	NC	62821	GEN1	22.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	22.6
2020	12	63395	Spencer Solar Farm, LLC	IPP	Spencer Solar	MA	63676	SPENC	2.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.3
2020	12	60531	Standard Solar	IPP	USS Buckaroo Solar LLC CSG	MN	63153	BUCKR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63304	Stewart CSG1 LLC	IPP	Stewart CSG1, LLC	MN	63599	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62716	Stony Knoll Solar, LLC	IPP	Stony Knoll Solar, LLC	NC	62820	GEN1	22.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	22.6
2020	12	63396	Sturbridge Road Solar Farm, LLC	IPP	Sturbridge Road Solar	MA	63677	STURB	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	12	63106	Sutton Solar 2, LLC	IPP	Sutton Solar 2, LLC	MA	63336	6004	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	12	62819	Syncarpha Halifax, LLC	IPP	Syncarpha Halifax Hybrid	MA	62973	SYHAB	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	12	62824	Syncarpha Northbridge I, LLC	IPP	Syncarpha Northbridge I Hybrid	MA	62977	SYN1B	4.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	12	62919	TPE King Solar Holdings1 LLC	IPP	King CSG	RI	63135	KING1	7.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.0
2020	12	61954	Techren Solar V LLC	IPP	Techren Solar V	NV	62440	TECH5	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	12	63224	Tehachapi Plains Wind, LLC	IPP	Point Wind	CA	63482	PW1	64.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	64.5
2020	12	63433	USS Bluff Country Solar	IPP	USS Bluff Country Solar	MN	63741	USBCS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63328	USS Goodrich Solar	IPP	USS Goodrich Solar	IL	63620	USGCH	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2020	12	63327	USS Grandpa Solar	IPP	USS Grandpa Solar	IL	63619	USGPA	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2020	12	63436	USS Hubers Solar LLC	IPP	USS Hubers Solar LLC	MN	63744	HUBER	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63326	USS Solar Brick	IPP	USS Solar Brick	IL	63618	USBRK	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2020	12	63435	USS Solar Way LLC	IPP	USS Solar Way LLC	MN	63743	SOLWY	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63329	USS Sycamore Solar	IPP	USS Sycamore Solar	IL	63621	USSYC	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2020	12	63434	USS Viceroy Solar LLC	IPP	USS Viceroy Solar LLC	MN	63742	USVIC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	19876	Virginia Electric & Power Co	IPP	Desper Solar	VA	62730	1	88.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	88.2
2020	12	61522	Viridity Energy Solutions, Inc.	IPP	Vallecito	CA	62801	ORN34	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2020	12	63129	Wapello Solar LLC	IPP	Wapello Solar LLC	IA	63378	WAPLO	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2020	12	62668	Wheatridge Wind Energy, LLC	IPP	Wheatridge Wind	OR	62745	WIND	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2020	12	62079	White Cloud Wind Project, LLC	IPP	White Cloud Wind Project, LLC	MO	62624	WTCWF	236.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	236.5
2020	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
2020	12	62635	Wildcat Creek Wind Farm LLC	IPP	Wildcat Creek Wind Farm LLC	TX	62715	WCCWF	180.1	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	180.1

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	20860	Wisconsin Public Service Corp	Electric Utility	Two Creeks Solar	WI	63105	1	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2021	1	62160	AES ES Alamitos, LLC	IPP	AES ES ALAMITOS, LLC	CA	61204	ALMTS	100.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	100.0
2021	1	59315	Bradley Farm LLC	IPP	Bradley Farm (Dudley)	NC	62593	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2021	1	61978	Convergent Energy and Power LP	IPP	Orange County Energy Storage 2	CA	62497	OCES2	9.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	9.0
2021	1	61978	Convergent Energy and Power LP	IPP	Orange County Energy Storage 3	CA	62499	OCES3	6.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	6.0
2021	1	6455	Duke Energy Florida, LLC	Electric Utility	Santa Fe Solar Power Plant	FL	63517	PV1	42.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2021	1	6455	Duke Energy Florida, LLC	Electric Utility	Twin Rivers Solar Power Plant	FL	63518	PV1	42.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2021	1	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH3	3.7	Other Natural Gas	NG	FC	(V) Under construction, more than 50 percent complete	3.7
2021	1	62763	Hecate Grid, LLC	IPP	Hecate Energy Johanna Facility	CA	62889	HEGJF	20.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	20.0
2021	1	9234	Indiana Municipal Power Agency	Electric Utility	Columbia City Solar Park	IN	62769	SCOLU	4.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.3
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN7	9.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.0
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN8	9.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.0
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN9	9.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.0
2021	1	60685	Novel Energy Solutions	IPP	Hayfield Solar I LLC	MN	63724	HAYF1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-1	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-2	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-3	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-4	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-5	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-6	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63210	Saint Solar LLC	IPP	Saint Solar	AZ	63476	SAINT	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	1	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
2021	1	16609	San Diego Gas & Electric Co	Electric Utility	Top Gun Energy Storage	CA	61366	TGES	30.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	30.0
2021	1	63257	Solar Carver 1, LLC	IPP	Solar Carver 1	MA	63541	BCRV1	2.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.0
2021	1	63257	Solar Carver 1, LLC	IPP	Solar Carver 1	MA	63541	SCRV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	1	63243	Solar Carver 3, LLC	IPP	Solar Carver 3	MA	63506	BCRV3	1.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	1.0
2021	1	63243	Solar Carver 3, LLC	IPP	Solar Carver 3	MA	63506	SCRV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2021	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	1,105.0
2021	1	18454	Tampa Electric Co	Electric Utility	Durrance	FL	63495	1	60.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	60.0
2021	1	19876	Virginia Electric & Power Co	Electric Utility	Coastal Virginia Offshore Wind (CVOW)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(V) Under construction, more than 50 percent complete	12.0
2021	1	62808	Whitehorn Solar, LLC	IPP	Whitehorn Solar	VA	62959	WHIT1	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2021	2	59050	Algonquin Power Co	IPP	Maverick Creek Wind	TX	62853	MVRCK	524.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	524.4
2021	2	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	R1	18.4	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2021	2	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	R2	18.4	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2021	2	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	R3	18.4	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	18.8
2021	2	61060	Cypress Creek Renewables	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2021	2	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	GT200	17.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	21.7
2021	2	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	GT300	17.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	21.7
2021	2	60685	Novel Energy Solutions	IPP	Hayfield Solar III LLC	MN	63725	HAYF3	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2021	2	60685	Novel Energy Solutions	IPP	Pipestone City Solar LLC	MN	63726	PSCTY	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-1	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-2	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-3	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-4	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-5	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-6	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-7	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-8	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG-9	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	63082	ProEnergy Services	IPP	Topaz Generating	TX	63688	CTG10	48.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	60.5
2021	2	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
2021	3	62742	ENEL BELLA ENERGY STORAGE, LLC	IPP	Goleta Grid Resiliency	CA	63736	BESS1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2021	3	61888	Gloversville Community Solar LLC	IPP	Gloversville Landfill Solar	NY	62357	08158	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2021	3	14328	Pacific Gas & Electric Co.	Electric Utility	Elkhorn Battery Energy Storage System	CA	62564	ELKHO	182.5	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	182.5
2021	3	62646	Painter Energy Storage, LLC	IPP	Painter Energy Storage	CA	62729	PAIN1	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2021	3	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
2021	3	63424	Silverstrand Grid, LLC	IPP	Silverstrand Grid Energy Storage System	CA	63735	SLV01	11.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	11.0
2021	3	62820	Syncarpha Millbury, LLC	IPP	Syncarpha Millbury Hybrid	MA	62974	SYMIS	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2021	3	62812	Syncarpha Tewksbury, LLC	IPP	Syncarpha Tewksbury Hybrid	MA	62968	SYTKS	2.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.8
2021	3	62813	Syncarpha Westminster, LLC	IPP	Syncarpha Westminster Hybrid	MA	62971	SYWES	4.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.7
2021	3	19539	University of Iowa	Commercial	University of Iowa Main Power Plant	IA	54775	GEN12	5.8	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	5.8
2021	3	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
2021	3	62048	Westlands Almond LLC	IPP	Almond	CA	62546	ALMND	19.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	19.9
2021	3	63276	Woodfields Solar, LLC	IPP	Woodfields Solar	SC	63552	PGR21	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2021	4	63004	Abundant Solar Power Inc.	IPP	Deiter-STEU	NY	63226	2078	2.2	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.2
2021	4	63004	Abundant Solar Power Inc.	IPP	Gibson-STEU	NY	63227	8675	11.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	11.5
2021	4	63004	Abundant Solar Power Inc.	IPP	Wheaton-STEU	NY	63228	11410	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2021	4	60367	BRE NC Solar 3, LLC	IPP	BRE NC Solar 3	NC	60627	BEAM3	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	4	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG-1H	1.5	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	1.5
2021	4	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG-2H	1.5	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	1.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Discovery Solar Center	FL	63109	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Orange Blossom Solar Center	FL	62919	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Palm Bay Solar	FL	62921	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Pelican Solar Center	FL	62924	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Rodeo Solar Center	FL	62917	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Sabal Palm Solar Center	FL	63110	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2021	4	49893	Invenergy Services LLC	IPP	Badger Hollow Solar Farm LLC	WI	62955	GEN1	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
2021	4	55983	Luminant Generation Company LLC	IPP	Brightside	TX	63223	UNIT1	50.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.7
2021	4	11806	Massachusetts Mun Wholes Electric Co	Electric Utility	MMWEC Simple Cycle Gas Turbine	MA	63559	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	65.0
2021	4	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
2021	4	56545	Pattern Operators LP	IPP	G.S.E. One LLC	TX	62505	1	82.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	83.0
2021	4	63275	Samoset Solar, LLC	IPP	Samoset Solar	ME	63551	PGR21	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	4	62813	Syncarpha Westminster, LLC	IPP	Syncarpha Westminster Hybrid	MA	62971	SYWEB	2.9	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.9

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	5	63012	2W Permian Solar, LLC	IPP	2W Permian Solar Project	TX	63255	2WPBA	40.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	40.0
2021	5	63012	2W Permian Solar, LLC	IPP	2W Permian Solar Project	TX	63255	2WPSO	420.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	420.0
2021	5	61608	Agilon Energy Holdings II, LLC	IPP	Victoria Port Power II LLC	TX	61966	VP2-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2021	5	61608	Agilon Energy Holdings II, LLC	IPP	Victoria Port Power II LLC	TX	61966	VP2-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2021	5	62049	Aquamarine Westside LLC	IPP	Aquamarine	CA	62547	AQUAM	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	250.0
2021	5	56769	Consolidated Edison Development Inc.	IPP	CED Crane Solar	TX	63519	CRN1	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM45	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM46	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM47	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM48	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM49	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62898	Dflex Power, LLC	IPP	John Paul Jones	TX	63095	JPJDX	18.7	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.7
2021	5	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
2021	5	61942	Griffin Trail Wind, LLC	IPP	Griffin Trail Wind	TX	62411	GTWND	225.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	225.6
2021	5	62807	Hawtree Creek Farm Solar, LLC	IPP	Hawtree Solar	NC	62951	HAWT1	65.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	65.0
2021	5	62064	Hill Top Energy Center, LLC	IPP	Hill Top Energy Center, LLC	PA	62565	GEN1	619.1	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	664.7
2021	5	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
2021	5	55983	Luminant Generation Company LLC	IPP	Alira	TX	63193	UNIT1	222.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	222.8
2021	5	63100	SE Juno, LLC	IPP	Juno Solar Project	TX	63328	JUNO1	159.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	159.0
2021	5	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	5	62820	Syncarpha Millbury, LLC	IPP	Syncarpha Millbury Hybrid	MA	62974	SYMIB	3.8	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.8
2021	5	62812	Syncarpha Tewksbury, LLC	IPP	Syncarpha Tewksbury Hybrid	MA	62968	SYTKB	2.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	2.0
2021	5	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
2021	6	63118	224WB 8me LLC	IPP	Galloway 2 Solar Farm	TX	63343	GS2SF	110.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	110.0
2021	6	61523	225DD 8me LLC	IPP	Galloway 1 Solar Farm	TX	61920	GSM01	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
2021	6	61525	231RC 8me LLC	IPP	Norton Solar Farm	TX	61967	NSM01	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	125.0
2021	6	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
2021	6	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
2021	6	61825	Antelope Expansion 1B, LLC	IPP	Antelope Expansion 1B	CA	62320	ANE1B	17.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	6	63430	Astral Electricity, LLC	IPP	Chisholm Grid Energy Storage System	TX	63737	CHS01	100.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	100.0
2021	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
2021	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
2021	6	62746	Don Lee BESS 1 LLC	IPP	Don Lee BESS 1 LLC	CA	62872	DONL1	6.5	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	6.5
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	56987	East Blackland Solar Project 1 LLC	IPP	East Blackland Solar Project 1	TX	57659	PSF	144.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	144.0
2021	6	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2021	6	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
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	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
2021	6	6909	Gainesville Regional Utilities	Electric Utility	John R Kelly	FL	664	8.2	40.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	50.0
2021	6	7140	Georgia Power Co	Electric Utility	Fort Valley State University Solar	GA	63062	1	10.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.8
2021	6	61122	Great River Hydro, LLC	IPP	S C Moore	NH	2351	GEN5	4.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	4.6
2021	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	232.0
2021	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
2021	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN1	162.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	177.0
2021	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN2	162.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	177.0
2021	6	49893	Invenergy Services LLC	IPP	Canisteo Wind Farm	NY	62947	GEN1	290.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	290.7
2021	6	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPC2	48.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	58.0
2021	6	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPC3	48.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	58.0
2021	6	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPS1	46.3	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	58.0
2021	6	56155	Lansing Board of Water and Light	Electric Utility	Delta Energy Park	MI	63259	DEPST	81.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	89.2
2021	6	61219	Longroad Energy Services LLC	IPP	Muscle Shoals	AL	62462	GEN01	227.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	227.0
2021	6	11806	Massachusetts Mun Wholes Electric Co	Electric Utility	MMWEC Simple Cycle Gas Turbine	MA	63559	1	55.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	70.0
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	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
2021	6	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(T) Regulatory approvals received. Not under construction	2.0
2021	6	61946	Prairie State Solar, LLC	IPP	Prairie State Solar Project	IL	62420	PSS01	99.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	99.0
2021	6	60982	RE Maplewood LLC	IPP	RE Maplewood	TX	61346	PV2	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2021	6	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
2021	6	63092	SE Titan, LLC	IPP	Titan Solar Project	TX	63320	IPTTN	260.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	260.0
2021	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST2	232.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	260.0
2021	6	62918	TPE Hopkins Solar Holdings1 LLC	IPP	Hopkins Hill CSG	RI	63136	HH1	4.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.8
2021	6	62918	TPE Hopkins Solar Holdings1 LLC	IPP	Hopkins Hill CSG	RI	63136	HH2	4.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.7
2021	6	63420	Taos Mesa Energy Facility, LLC	IPP	Taos Mesa Energy Facility	NM	63728	TMEF1	15.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.0
2021	6	19564	University of Notre Dame	Commercial	Notre Dame Hydro	IN	62918	HYD1	2.5	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.5
2021	6	63225	Wister Solar	IPP	Wister Solar	CA	63487	WSOL	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	6	63369	Yaphank Fuel Cell Park, LLC	IPP	SWM Fuel Cell	NY	63661	SWM-1	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	6	63369	Yaphank Fuel Cell Park, LLC	IPP	SWM Fuel Cell	NY	63661	SWM-2	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	6	63369	Yaphank Fuel Cell Park, LLC	IPP	SWM Fuel Cell	NY	63661	SWM-3	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	7	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

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)
2021	7	60366	BRE NC Solar 2, LLC	IPP	BRE NC Solar 2	NC	60626	BEAM2	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	7	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	G6PV	0.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	0.8
2021	7	56615	First Solar Project Development	IPP	Sun Stream 2	AZ	63440	GEN01	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2021	7	63403	Luna Storage, LLC	IPP	Luna Storage	CA	63685	LUNA	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	7	63139	Minonk Stewardship Wind LLC	IPP	Bennington Wind	IL	63384	BENN	93.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	93.0
2021	7	61593	Pleinmont Solar 2 LLC	IPP	Pleinmont Solar 2	VA	62013	PLNM2	240.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	240.0
2021	7	63100	SE Juno, LLC	IPP	Juno Solar Project	TX	63328	IPJNO	141.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	141.0
2021	7	62699	SunEast Dog Corners Solar LLC	IPP	SunEast Dog Corners Solar Project	NY	62823	Q584	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	7	62757	SunEast Hills Solar LLC	IPP	SunEast Hills Solar Project	NY	62895	Q581	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	7	62698	SunEast Skyline Solar LLC	IPP	SunEast Skyline Solar Project	NY	62816	Q670	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	7	62756	SunEast Watkins Road Solar LLC	IPP	SunEast Watkins Road Solar Project	NY	62896	Q586	20.0	Solar Photovoltaic	SUN	PV	(OT) Other	20.0
2021	7	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
2021	8	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	8	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	8	56769	Consolidated Edison Development Inc.	IPP	Copper Mountain Solar 5, LLC	NV	63504	CM5-1	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	252.0
2021	8	61684	Diablo Energy Storage, LLC	IPP	Diablo Energy Storage	CA	62175	DIBLO	250.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	250.0
2021	8	62936	TREX US Red Holly LLC	IPP	TREX US Red Holly	TX	63202	701-S	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2021	9	63253	Assembly Solar II LLC	IPP	Assembly Solar II LLC	MI	63538	AS2	110.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	110.0
2021	9	61818	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	1	11.7	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	14.3
2021	9	61818	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	2	11.7	All Other	WH	OT	(P) Planned for installation, but regulatory approvals not initiated	14.3
2021	9	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-3	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-4	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	63109	Hales Mills Solar, LLC	IPP	Hales Mills Solar, LLC	NY	63339	6609	3.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	9	19558	Homer Electric Assn Inc	Electric Utility	Soldotna	AK	57206	3	46.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	93.0
2021	9	55983	Luminant Generation Company LLC	IPP	Emerald Grove	TX	63233	UNIT1	108.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	108.0
2021	9	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
2021	9	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
2021	9	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
2021	9	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
2021	9	63101	SE Aragorn, LLC	IPP	Aragorn Solar Project	TX	63329	IPAGN	180.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	180.0
2021	9	62700	SunEast Clay Solar LLC	IPP	SunEast Clay Solar Project	NY	62819	Q669	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	63412	Westmoreland County Solar Project, LLC	IPP	Westmoreland County Solar Project	VA	63696	WEST	19.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	19.9
2021	10	62794	AP Solar 2, LLC	IPP	Fighting Jays Solar Project	TX	62945	FJSOL	350.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	350.0
2021	10	62659	BMP Wind LLC	IPP	BMP Wind (TX)	TX	62809	BMP	293.6	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	293.3
2021	10	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
2021	10	62886	Clover Creek Solar, LLC	IPP	Clover Creek Solar	UT	63061	CLVR	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	10	58970	Ecoplexus, Inc	IPP	Westminister NC	NC	63567	WSMTR	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2021	10	7140	Georgia Power Co	Electric Utility	Georgia College & State University Solar	GA	63282	1	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2021	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
2021	10	62893	Mililani I Solar LLC	IPP	Mililani South Solar Farm	HI	57242	1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	58901	Sustainable Hydro, Braddock, LLC	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
2021	10	61637	TUUSSO Energy, LLC	IPP	Camas Solar Project	WA	62071	CAMAS	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Fumaria Solar Project	WA	62070	FUMAR	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Penstemon Solar Project	WA	62069	PENST	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Typha Solar Project	WA	62068	TYPHA	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSSO Energy, LLC	IPP	Urtica Solar Project	WA	62067	URTIC	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	59056	Tri Global Energy, LLC	IPP	Water Valley Wind Energy	TX	62846	WWE1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2021	11	15399	Avangrid Renewables LLC	IPP	Montague Solar	OR	63441	S1	162.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	162.0
2021	11	62734	Blue Marmot IX LLC	IPP	Blue Marmot IX	OR	62867	DVRO	9.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	11	62735	Blue Marmot V LLC	IPP	Blue Marmot V	OR	62866	DNZE	9.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	11	62736	Blue Marmot VI LLC	IPP	Blue Marmot VI	OR	62865	DNZW	9.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	11	62737	Blue Marmot VII LLC	IPP	Blue Marmot VII	OR	62864	RSHEI	9.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	11	62738	Blue Marmot VIII LLC	IPP	Blue Marmot VIII	OR	62863	PRMLE	9.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	11	63414	Cool Springs Solar, LLC	IPP	Cool Springs Solar	GA	63721	COOLS	213.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	213.0
2021	11	63418	Elora Solar	IPP	Elora Solar	TN	63719	ELO	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2021	11	6452	Florida Power & Light Co	Electric Utility	Manatee Solar Energy Center	FL	60014	BMS	409.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	409.0
2021	11	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
2021	11	63289	Key Capture Energy	IPP	NY2 Battery	NY	63584	NY2	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2021	11	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
2021	11	61762	Long Ridge Energy Generation 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	521.9
2021	11	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	CT2	5.2	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	6.1
2021	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
2021	11	56215	RWE Renewables Americas LLC	IPP	Hickory Park Solar	GA	63522	HPBAT	40.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	40.0
2021	11	56215	RWE Renewables Americas LLC	IPP	Hickory Park Solar	GA	63522	HPRK	195.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	195.5
2021	11	61516	Stratford Solar Center, LLC	IPP	Stratford Solar Center, LLC	VA	61908	STRAT	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2021	11	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT5	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	392.0
2021	11	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT6	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	392.0
2021	11	18454	Tampa Electric Co	Electric Utility	Mountain View Solar (FL)	FL	61664	GEN1	52.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	52.5
2021	11	60387	Townsite Solar, LLC	IPP	Townsite Solar Project	NV	60654	GEN02	90.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	90.0
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	59495	Ameren Missouri	Electric Utility	Green City Renewable Energy Center	MO	63065	GBESS	2.5	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.5
2021	12	59495	Ameren Missouri	Electric Utility	Green City Renewable Energy Center	MO	63065	GCREC	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2021	12	59495	Ameren Missouri	Electric Utility	Richwoods Renewable Energy Center	MO	63066	RBESS	4.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	4.0
2021	12	59495	Ameren Missouri	Electric Utility	Richwoods Renewable Energy Center	MO	63066	RREC	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2021	12	59495	Ameren Missouri	Electric Utility	Utica Renewable Energy Center	MO	63067	UBESS	2.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.0
2021	12	59495	Ameren Missouri	Electric Utility	Utica Renewable Energy Center	MO	63067	UREC	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2021	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
2021	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
2021	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
2021	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN4	4.2	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)
2021	12	60927	Anchor Energy LLC	IPP	Anchor Energy	PA	61304	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	803	Arizona Public Service Co	Electric Utility	Cotton Center Solar Hybrid	AZ	57561	CC17M	17.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	12	803	Arizona Public Service Co	Electric Utility	Desert Star Hybrid	AZ	62965	DS10M	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2021	12	803	Arizona Public Service Co	Electric Utility	El Sol BESS	AZ	62964	EL50M	50.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	12	803	Arizona Public Service Co	Electric Utility	Foothills Solar Plant Hybrid	AZ	57997	FH38M	38.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	38.0
2021	12	803	Arizona Public Service Co	Electric Utility	Gila Bend Hybrid	AZ	59020	GB36M	36.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	36.0
2021	12	803	Arizona Public Service Co	Electric Utility	Hyder II Hybrid	AZ	58383	H214M	14.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	14.0
2021	12	803	Arizona Public Service Co	Electric Utility	Hyder Solar Hybrid	AZ	57563	H116M	16.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	16.0
2021	12	803	Arizona Public Service Co	Electric Utility	Paloma Solar Hybrid	AZ	57562	PA17M	17.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	12	15399	Avangrid Renewables LLC	IPP	Bakeoven Solar	OR	63507	BOS1	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2021	12	15399	Avangrid Renewables LLC	IPP	Golden Hill Wind	OR	63710	GH1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2021	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
2021	12	15399	Avangrid Renewables LLC	IPP	Lund Hill Solar	WA	63509	LHS1	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2021	12	59613	BayWa r.e. Solar Projects LLC	IPP	Bluebird Solar LLC	KY	62797	BBIRD	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62708	Black Bear Wind LLC	IPP	Black Bear Wind (MT)	MT	62808	BBW	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62713	Buenos Aires Windpower LLC	IPP	Buenos Aires Phase 1	TX	62803	BAW1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2021	12	63221	CD4	IPP	CD4	CA	63490	OEC1	17.0	Geothermal	GEO	BT	(L) Regulatory approvals pending. Not under construction	25.0
2021	12	58508	Carolina Solar Energy LLC	IPP	Cabaniss Solar	NC	60430	PV1	4.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.2
2021	12	58508	Carolina Solar Energy LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	56769	Consolidated Edison Development Inc.	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	62911	Drew Solar LLC	IPP	Drew Solar LLC	CA	63127	DS	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2021	12	61785	EDP Renewables North America LLC	IPP	Saddle Mountain East Wind Farm	WA	62263	GEN1	126.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	126.0
2021	12	58970	Ecoplexus, Inc	IPP	Grifton PV2	NC	63568	GRFT2	56.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	56.0
2021	12	59380	Enel Green Power NA, Inc.	IPP	Pomerado Energy Storage, LLC	CA	61390	PMRDO	6.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	6.0
2021	12	60496	Enerparc Inc.	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
2021	12	56615	First Solar Project Development	IPP	White Wing Solar	AZ	60572	GEN01	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2021	12	62130	Foundation CA Fund X Manager LLC	IPP	Foundation Dole Fresh Vegetables	CA	62654	WTG1	2.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.8
2021	12	62130	Foundation CA Fund X Manager LLC	IPP	Foundation Dole Fresh Vegetables	CA	62654	WTG2	2.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.8
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS2	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS3	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS4	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	62759	Geronimo Energy	IPP	Elk Creek Solar	MN	63250	ELKCR	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2021	12	62759	Geronimo Energy	IPP	Prairie Wolf Solar LLC	IL	62893	PWOLF	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2021	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
2021	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
2021	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
2021	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
2021	12	62704	Grizzly Wind LLC	IPP	Grizzly Wind LLC	MT	62802	GW	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62153	Hecate Energy Highland LLC	IPP	Hecate Energy Highland LLC	OH	62670	HIGHL	300.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	300.0
2021	12	62765	High Bridge Wind, LLC	IPP	High Bridge Wind Project	NY	62894	WT	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	12	61853	Innogy Renewables US LLC	IPP	Baron Winds Farm	NY	60596	1	130.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	130.0
2021	12	61853	Innogy Renewables US LLC	IPP	Buckeye Wind Farm	OH	58776	1	99.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	99.0
2021	12	49893	Invenergy Services LLC	IPP	Alle-Catt Wind Energy LLC	NY	62954	GEN1	340.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	340.0
2021	12	49893	Invenergy Services 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
2021	12	49893	Invenergy Services LLC	IPP	Horseshoe Solar Energy	NY	63096	GEN1	180.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	180.0
2021	12	49893	Invenergy Services LLC	IPP	Yum Yum Solar LLC	TN	63026	GEN1	147.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	147.0
2021	12	62912	Iris Solar LLC	IPP	Iris Solar LLC	LA	63128	ISLLC	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT1	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT2	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	63107	Lansing Renewables, LLC	IPP	Lansing Renewables, LLC	NY	63337	6004	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	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
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	1	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	2	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	3	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	4	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	5	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	63231	Maverick Wind Project, LLC	IPP	Maverick Wind Project, LLC	OK	63494	GEN1	288.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2021	12	62675	Meherrin Solar LLC	IPP	Meherrin Solar	VA	62758	MEHER	59.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	59.6
2021	12	61459	Minco Wind V, LLC	IPP	Minco Wind V, LLC	OK	61837	MV	220.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	220.0
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	63216	North Valley	IPP	North Valley	NV	63491	OEC1	25.0	Geothermal	GEO	BT	(L) Regulatory approvals pending. Not under construction	37.0
2021	12	63110	Owlville Creek Solar 2, LLC	IPP	Owlville Creek Solar 2, LLC	NY	63340	6609	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	63111	Owlville Creek Solar, LLC	IPP	Owlville Creek Solar, LLC	NY	63341	6608	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	14328	Pacific Gas & Electric Co.	Electric Utility	Llagas Energy Storage	CA	63529	LLAGS	20.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	20.0
2021	12	56545	Pattern Operators LP	IPP	Old Jackson Solar LLC	TX	62501	1	127.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	128.0
2021	12	56545	Pattern Operators LP	IPP	Solemio LLC	TX	62522	1	79.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
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	56215	RWE Renewables Americas LLC	IPP	Blackjack Creek Wind Farm	TX	62783	BLKJK	239.6	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	239.6
2021	12	61784	Rolling Upland Wind Farm LLC	IPP	Rolling Upland Wind Farm LLC	NY	62262	GEN1	60.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	60.0
2021	12	62896	Rooney Ranch, LLC	IPP	Rooney Ranch	CA	63088	ROONR	21.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	21.0
2021	12	62983	SE Athos I, LLC	IPP	Athos Solar Project	CA	63300	IPAT1	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
2021	12	61900	SR Arlington, LLC	IPP	SR Arlington I	GA	62436	ARLI	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2021	12	62907	Sand Hill A, LLC	IPP	Sand Hill A	CA	63126	SNDHA	13.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	13.5
2021	12	62908	Sand Hill B, LLC	IPP	Sand Hill B	CA	63652	SNDHB	17.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	12	62909	Sand Hill C, LLC	IPP	Sand Hill C	CA	63653	SNDHC	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62109	Searcy Solar, LLC	IPP	Searcy Solar Hybrid	AR	62617	SEABT	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	12	62109	Searcy Solar, LLC	IPP	Searcy Solar Hybrid	AR	62617	SEARC	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	12	62152	Skipjack Solar Center, LLC	IPP	Skipjack Solar Center	VA	62675	SKIPJ	175.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	175.0
2021	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
2021	12	62744	St. James Solar, LLC	IPP	St. James Solar (LA)	LA	62854	SJS	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	12	63140	Three Rivers Solar Power, LLC	IPP	Three Rivers Solar Power, LLC	ME	63386	3RIVS	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2021	12	60387	Townsite Solar, LLC	IPP	Townsite Solar Project	NV	60654	GEN01	160.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	180.0
2021	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
2021	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
2021	12	62668	Wheatridge Wind Energy, LLC	IPP	Wheatridge Hybrid	OR	62745	BTRY	30.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	30.0
2021	12	62668	Wheatridge Wind Energy, LLC	IPP	Wheatridge Hybrid	OR	62745	SOLAR	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2021	12	58761	White Camp Solar LLC	IPP	White Camp Solar	TX	58888	WCAMP	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	12	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
2021	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2021	12	60932	Wrighter Energy LLC	IPP	Wrighter Energy	PA	61302	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2022	1	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
2022	1	61060	Cypress Creek Renewables	IPP	Thigpen Farms Solar, LLC	NC	60850	PV1	5.0	Solar Photovoltaic	SUN	PV	(OT) Other	5.0
2022	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
2022	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
2022	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
2022	1	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
2022	1	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
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	2	55983	Luminant Generation Company LLC	IPP	Jayhawk	TX	59806	SOLAR	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2022	2	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	374.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	501.0
2022	2	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC2	257.6	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	312.8
2022	2	6775	Village of Freeport - (NY)	Electric Utility	Plant No 1 Freeport	NY	2678	ENG13	3.0	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	3.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-4	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-4	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	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
2022	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
2022	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
2022	3	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT1	370.6	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.6
2022	3	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT2	370.6	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.6
2022	3	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	ST1	368.1	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	368.1
2022	3	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
2022	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
2022	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
2022	4	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	11	359.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	394.4
2022	4	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	12	359.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	394.4
2022	4	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	1S	428.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	478.6
2022	4	62787	Jackson Generation, LLC	IPP	Jackson Generation, LLC	IL	62926	01	600.0	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	600.0
2022	4	62787	Jackson Generation, LLC	IPP	Jackson Generation, LLC	IL	62926	02	600.0	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	600.0
2022	4	63426	RE Bravepost LLC	IPP	RE Bravepost LLC	TX	63730	BVPST	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2022	4	62983	SE Athos I, LLC	IPP	Athos Solar Project	CA	63300	IPAT2	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2022	4	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Pulp Processing Facility	FL	58997	G1001	12.0	Wood/Wood Waste Biomass	WDS	ST	(U) Under construction, less than or equal to 50 percent complete	20.0
2022	4	62935	TREX US Green Holly LLC	IPP	TREX US Green Holly	TX	63201	705	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2022	4	62935	TREX US Green Holly LLC	IPP	TREX US Green Holly	TX	63201	705-S	5.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	5.0
2022	5	15399	Avangrid Renewables LLC	IPP	Camino Solar	CA	63508	CS1	44.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	44.0
2022	6	61541	1634 Solar, LLC	IPP	1634 Solar	SC	61935	3	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	62921	Arroyo Solar LLC	IPP	Arroyo Solar Energy Storage Hybrid	NM	63172	ARESS	40.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	40.0
2022	6	62921	Arroyo Solar LLC	IPP	Arroyo Solar Energy Storage Hybrid	NM	63172	ARSOL	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2022	6	61711	Ashley Solar (SC)	IPP	Ashley Solar (SC)	SC	62179	21	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61712	Atlantic Solar	IPP	Atlantic Solar	SC	62180	22	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2022	6	61713	B & K Solar	IPP	B & K Solar	SC	62181	23	63.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	63.0
2022	6	61544	Bani Solar, LLC	IPP	Bani Solar	SC	61938	4	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61715	Bell Solar	IPP	Bell Solar	SC	62183	25	6.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.1
2022	6	61716	Big Fork Solar	IPP	Big Fork Solar	SC	62184	26	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2022	6	61717	Birch Solar	IPP	Birch Solar	SC	62185	27	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61519	Blackville Solar Farm, LLC	IPP	Blackville Solar Farm, LLC	SC	61918	1	7.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.2
2022	6	62920	Cabin Point Solar Center LLC	IPP	Cabin Point Solar Center	VA	63134	CBNPT	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2022	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
2022	6	61718	Chapman Solar	IPP	Chapman Solar	SC	62186	28	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61719	Clark Solar	IPP	Clark Solar	SC	62187	29	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61720	Colleton Solar	IPP	Colleton Solar	SC	62188	30	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2022	6	61721	Collins Farm Solar	IPP	Collins Farm Solar	SC	62189	31	5.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.4
2022	6	61722	Crossroads Solar	IPP	Crossroads Solar	SC	62190	32	67.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	67.7
2022	6	61729	Culpepper Solar	IPP	Culpepper Solar	SC	62221	33	69.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	69.5
2022	6	61730	Dadswell Solar	IPP	Dadswell Solar	SC	62222	34	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2022	6	61731	Denmark Solar	IPP	Denmark Solar	SC	62211	35	6.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.0
2022	6	61732	Fairfield Solar	IPP	Fairfield Solar	SC	62212	36	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2022	6	61733	Fishwater Solar	IPP	Fishwater Solar	SC	62213	37	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	7GT1	385.6	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	385.6
2022	6	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	7GT2	385.6	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	385.6

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	6	6452	Florida Power & Light Co	Electric Utility	Lauderdale	FL	613	ST7	391.8	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	391.8
2022	6	61735	Foreman Solar	IPP	Foreman Solar	SC	62215	39	6.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.4
2022	6	61737	GEB Solar	IPP	GEB Solar	SC	62217	40	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.0
2022	6	61738	Gedosch Solar II	IPP	Gedosch Solar II	SC	62218	42	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61746	Holliday Solar I	IPP	Holliday Solar I	SC	62229	43	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2022	6	61749	Jackson Solar	IPP	Jackson Solar	SC	62232	46	14.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	14.0
2022	6	61750	Jefferson Solar	IPP	Jefferson Solar	SC	62233	47	8.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	8.2
2022	6	61752	Lone Star Solar	IPP	Lone Star Solar	SC	62235	49	66.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	66.0
2022	6	61753	Luz Solar	IPP	Luz Solar	SC	62236	50	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61755	Marshall Solar	IPP	Marshall Solar	SC	62238	52	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61796	Martin Central Solar	IPP	Martin Central Solar	SC	62285	53	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61787	Martin East Solar	IPP	Martin East Solar	SC	62276	54	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61788	Martin West Solar	IPP	Martin West Solar	SC	62277	55	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61789	McClain Solar	IPP	McClain Solar	SC	62278	56	17.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	17.3
2022	6	61790	McCormick Solar	IPP	McCormick Solar	SC	62279	57	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61791	Melsam Solar	IPP	Melsam Solar	SC	62280	58	60.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.5
2022	6	61792	Middleton Solar	IPP	Middleton Solar	SC	62281	59	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61793	Pee Dee Solar I	IPP	Pee Dee Solar I	SC	62282	60	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61794	Pee Dee Solar II	IPP	Pee Dee Solar II	SC	62283	61	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61795	Power Solar	IPP	Power Solar	SC	62284	62	3.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2022	6	61804	Pruger Solar I	IPP	Pruger Solar I	SC	62292	63	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61805	Pruger Solar II	IPP	Pruger Solar II	SC	62293	64	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61806	Pruger Solar III	IPP	Pruger Solar III	SC	62294	65	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT1	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT2	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT3	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT4	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT5	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT6	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	15473	Public Service Co of NM	Electric Utility	Pinon Energy Center	NM	63281	GT7	42.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	41.8
2022	6	61807	Quest Solar	IPP	Quest Solar	SC	62299	66	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2022	6	62694	Rappahannock Solar, LLC	IPP	Rappahannock Solar, LLC	VA	62780	100	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2022	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	1,022.9
2022	6	61808	Rollins Solar	IPP	Rollins Solar	SC	62295	67	63.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	63.0
2022	6	61809	Ross Solar	IPP	Ross Solar	SC	62296	68	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2022	6	61810	Rutledge Solar	IPP	Rutledge Solar	SC	62297	69	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61814	Sandifer Solar	IPP	Sandifer Solar	SC	62298	70	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61828	Scarlet Solar	IPP	Scarlet Solar	SC	62307	71	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61829	Shem Solar	IPP	Shem Solar	SC	62308	72	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61830	Shining Sun Solar	IPP	Shining Sun Solar	SC	62309	73	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2022	6	61831	Shorthorn Solar	IPP	Shorthorn Solar	SC	62310	74	60.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.5
2022	6	61832	Snoopy Solar	IPP	Snoopy Solar	SC	62311	75	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61833	Southard Solar	IPP	Southard Solar	SC	62312	76	6.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.0
2022	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT4	237.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.0
2022	6	61834	Stamey Solar	IPP	Stamey Solar	SC	62313	77	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61835	Tarpon Solar I	IPP	Tarpon Solar I	SC	62314	78	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61836	Tedder Solar	IPP	Tedder Solar	SC	62315	79	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61837	Ten Governors Solar	IPP	Ten Governors Solar	SC	62316	80	28.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	28.0
2022	6	61862	Thomas Solar	IPP	Thomas Solar	SC	62352	81	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61861	Topaz Solar	IPP	Topaz Solar (SC)	SC	62349	82	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61860	Trask East Solar	IPP	Trask East Solar	SC	62346	83	12.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	12.0
2022	6	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
2022	6	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
2022	6	61859	Ulmer Solar	IPP	Ulmer Solar	SC	62343	85	22.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	22.0
2022	6	62650	Victorville Energy Center, LLC	Industrial	Victorville Energy Center, LLC (CA)	CA	62726	1	20.1	All Other	WH	ST	(P) Planned for installation, but regulatory approvals not initiated	20.1
2022	6	61868	WSW Solar	IPP	WSW Solar	SC	62350	86	10.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.8
2022	6	61863	Washington Solar (SC)	IPP	Washington Solar (SC)	SC	62342	87	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61864	Washington Solar II (SC)	IPP	Washington Solar II (SC)	SC	62344	88	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61865	Wayfair Solar	IPP	Wayfair Solar	SC	62345	89	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61866	Weaver Solar	IPP	Weaver Solar	SC	62347	90	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	6	61869	Wysong Solar	IPP	Wysong Solar	SC	62351	92	2.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.3
2022	6	61870	Yemassee Solar	IPP	Yemassee Solar	SC	62353	93	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2022	6	61871	York Solar	IPP	York Solar	SC	62354	94	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	7	49893	Invenergy Services LLC	IPP	Delilah Solar Energy LLC	TX	63194	GEN1	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2022	7	62936	TREX US Red Holly LLC	IPP	TREX US Red Holly	TX	63202	701	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	250.0
2022	8	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
2022	8	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS1	612.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	685.0
2022	9	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS2	612.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	685.0
2022	9	63416	Ho'Ohana Solar 1 LLC	IPP	Ho'Ohana Solar 1	HI	63723	H0001	52.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	52.0
2022	9	63416	Ho'Ohana Solar 1 LLC	IPP	Ho'Ohana Solar 1	HI	63723	HESS1	52.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	52.0
2022	10	62709	Bakerstand Solar LLC	IPP	Bakerstand Solar (NY)	NY	62811	BKSTD	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	10	62806	Guernsey Power Station LLC	IPP	Guernsey Power Station	OH	62949	GPS3	612.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	685.0
2022	10	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
2022	11	60797	68SF 8me LLC	IPP	Eland Solar & Storage Center, Phase 1 Hybrid	CA	61168	61168	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2022	11	60797	68SF 8me LLC	IPP	Eland Solar & Storage Center, Phase 1 Hybrid	CA	61168	68SF8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	11	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
2022	12	61768	Arrow Canyon Solar LLC	IPP	Arrow Canyon Solar Hybrid	NV	62248	1	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	12	61768	Arrow Canyon Solar LLC	IPP	Arrow Canyon Solar Hybrid	NV	62248	2	75.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2022	12	15399	Avangrid Renewables LLC	IPP	Midland Wind	IL	63003	1	115.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	115.0
2022	12	63421	Biggs Ford Solar Center, LLC	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
2022	12	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	12	61230	CD Arevon USA, Inc.	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	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

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	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
2022	12	54803	Dynegy Oakland, LLC	IPP	Dynegy Oakland Power Plant	CA	6211	GEN4	36.3	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	36.3
2022	12	62760	EDPR CA Solar Park VI LLC	IPP	EDPR CA Solar Park VI LLC (CA) Hybrid	CA	62892	SONR2	40.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	40.0
2022	12	62760	EDPR CA Solar Park VI LLC	IPP	EDPR CA Solar Park VI LLC (CA) Hybrid	CA	62892	SONRI	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	201.0
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	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
2022	12	56615	First Solar Project Development	IPP	Willow Spring Solar 3, LLC	CA	60325	GEN01	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2022	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
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
2022	12	61736	Gaines Solar	IPP	Gaines Solar	SC	62216	41	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2022	12	58880	Gallegos Wind Farm LLC	IPP	Gallegos Wind Farm, Phase 1	NM	59047	GEN 1	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2022	12	62008	Hale Kuawehi Solar LLC	IPP	Hale Kuawehi Solar Hybrid	HI	62529	HKBA	30.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	30.0
2022	12	62008	Hale Kuawehi Solar LLC	IPP	Hale Kuawehi Solar Hybrid	HI	62529	HKSOL	30.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	30.0
2022	12	61638	Harrison Power LLC	IPP	Cadiz Power Plant	OH	62153	GEN 1	550.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	660.0
2022	12	61638	Harrison Power LLC	IPP	Cadiz Power Plant	OH	62153	GEN 2	550.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	660.0
2022	12	49893	Invenergy Services LLC	IPP	Samson Solar Energy	TX	63211	GEN1	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2022	12	49893	Invenergy Services LLC	IPP	Tip Top Solar Energy Center LLC	NM	63028	GEN1	220.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	220.0
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	61596	Lincoln Land Energy Center LLC	IPP	Lincoln Land Energy Center	IL	62022	GEN1	520.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	638.4
2022	12	61596	Lincoln Land Energy Center LLC	IPP	Lincoln Land Energy Center	IL	62022	GEN2	520.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	638.4
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	1	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	2	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	3	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	4	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	5	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	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
2022	12	63427	Neptune Energy Center, LLC	IPP	Neptune Energy Center	CO	63731	NT325	325.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	375.0
2022	12	63238	OE_ALC	IPP	AL Solar C LLC	AL	63513	OEALC	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2022	12	62036	Paeahu Solar LLC	IPP	Paeahu Solar Hybrid	HI	62534	PHBA	15.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	15.0
2022	12	62036	Paeahu Solar LLC	IPP	Paeahu Solar Hybrid	HI	62534	PHSOL	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2022	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2022	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
2022	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
2022	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
2022	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
2022	12	56215	RWE Renewables Americas LLC	IPP	Pinckard Solar	AL	62787	PCKND	79.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	85.1
2022	12	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	CT1	349.8	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	384.2
2022	12	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	CT2	349.8	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	384.2
2022	12	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	ST	396.6	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	414.8
2022	12	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2023	1	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	BBST1	335.0	Natural Gas Steam Turbine	NG	ST	(P) Planned for installation, but regulatory approvals not initiated	445.5
2023	2	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
2023	2	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
2023	3	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
2023	3	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	480.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	480.0
2023	3	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	RWES1	129.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	129.0
2023	3	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	RWES2	98.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	98.0
2023	3	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	RWES3	89.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	89.0
2023	4	17568	Cooperative Energy	Electric Utility	R D Morrow	MS	6061	MOR1	514.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	550.0
2023	5	62733	Cranberry Point Energy Storage LLC	IPP	Cranberry Point Energy Storage	MA	62844	NA	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2023	5	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	6	227.8	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	227.8
2023	5	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
2023	5	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
2023	5	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
2023	5	55983	Luminant Generation Company LLC	IPP	Hallmark	TX	63234	UNIT1	42.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	42.0
2023	5	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	4	88.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	88.0
2023	5	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	LEC1	385.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	454.5
2023	5	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	LEC2	245.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	272.2
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	6	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
2023	6	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
2023	7	60798	69SV 8me LLC	IPP	Eland Solar & Storage Center, Phase 2 Hybrid	CA	61169	61169	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2023	7	60798	69SV 8me LLC	IPP	Eland Solar & Storage Center, Phase 2 Hybrid	CA	61169	69SV8	200.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	7	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT11	286.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	286.0
2023	7	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT12	286.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	286.0
2023	7	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	STG11	436.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	436.0
2023	7	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
2023	7	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
2023	9	62910	300MS 8me LLC	IPP	Southern Bighorn Solar Hybrid	NV	63113	BESS	135.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	135.0
2023	9	62910	300MS 8me LLC	IPP	Southern Bighorn Solar Hybrid	NV	63113	SBS	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2023	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
2023	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
2023	10	61914	Juwi Inc	IPP	Spanish Peaks Solar	CO	62379	47301	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2023	10	61906	Rye Development	IPP	Allegheny L&D2 Hydroelectric Project	PA	62401	NA1	2.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.5
2023	10	61906	Rye Development	IPP	Arkabutla Lake Hydroelectric Project	MS	62402	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Beverly L&D Hydroelectric Project	OH	62403	NA1	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	10	61906	Rye Development	IPP	Devola L&D Hydroelectric Project	OH	62435	NA1	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2023	10	61906	Rye Development	IPP	Emsworth BC Hydroelectric Project	PA	62434	NA1	3.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	10	61906	Rye Development	IPP	Emsworth L&D Hydroelectric Project	PA	62433	NA1	5.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.5
2023	10	61906	Rye Development	IPP	Enid Lake Hydroelectric Project	MS	62432	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Grays Landing L&D Hydroelectric Project	PA	62388	NA1	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	10	61906	Rye Development	IPP	Grenada Lake Hydroelectric Project	MS	62430	NA1	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	5.0
2023	10	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA1	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	10	61906	Rye Development	IPP	Lowell L&D Hydroelectric Project	OH	62429	NA1	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Maxwell L&D Hydroelectric Project	PA	62385	NA1	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	10	61906	Rye Development	IPP	Monongahela L&D4 Hydroelectric Project	PA	62404	NA1	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	10	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA1	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	10	61906	Rye Development	IPP	Morgantown L&D Hydroelectric Project	WV	62387	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Opekiska L&D Hydroelectric Project	WV	62386	NA1	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	10	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA1	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	10	61906	Rye Development	IPP	Philo L&D Hydroelectric Project	OH	62427	NA1	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	10	61906	Rye Development	IPP	Point Marion L&D Hydroelectric Project	PA	62384	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	10	61906	Rye Development	IPP	Rokeby L&D Hydroelectric Project	OH	62426	NA1	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	10	61906	Rye Development	IPP	Sardis Lake Hydroelectric Project	MS	62425	NA1	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	7.5
2023	10	62895	Vineyard Wind LLC	IPP	Vineyard Wind 1	MA	63093	VW01	800.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	800.0
2023	11	63117	Gemini Solar	IPP	Gemini Solar	NV	63352	ARBE1	690.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	690.0
2023	11	63117	Gemini Solar	IPP	Gemini Solar	NV	63352	ARPV1	280.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	380.0
2023	11	61797	Hecate Energy LLC	IPP	Hecate Energy Columbia County Solar	NY	62273	HECC1	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2023	11	61906	Rye Development	IPP	Allegheny L&D2 Hydroelectric Project	PA	62401	NA2	2.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.5
2023	11	61906	Rye Development	IPP	Arkabutla Lake Hydroelectric Project	MS	62402	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Beverly L&D Hydroelectric Project	OH	62403	NA2	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	11	61906	Rye Development	IPP	Devola L&D Hydroelectric Project	OH	62435	NA2	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Emsworth BC Hydroelectric Project	PA	62434	NA2	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Emsworth L&D Hydroelectric Project	PA	62433	NA2	6.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.5
2023	11	61906	Rye Development	IPP	Enid Lake Hydroelectric Project	MS	62432	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Grays Landing L&D Hydroelectric Project	PA	62388	NA2	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Grenada Lake Hydroelectric Project	MS	62430	NA2	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	5.0
2023	11	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA2	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	11	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA3	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	11	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA4	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	11	61906	Rye Development	IPP	KY No. 11 L&D Hydroelectric Project	KY	62390	NA5	0.3	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	0.5
2023	11	61906	Rye Development	IPP	Lowell L&D Hydroelectric Project	OH	62429	NA2	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Malta L&D Hydroelectric Project	OH	62428	NA1	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Malta L&D Hydroelectric Project	OH	62428	NA2	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Maxwell L&D Hydroelectric Project	PA	62385	NA2	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Monongahela L&D4 Hydroelectric Project	PA	62404	NA2	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA2	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	11	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA3	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	11	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA4	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	11	61906	Rye Development	IPP	Morgantown L&D Hydroelectric Project	WV	62387	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Opekiska L&D Hydroelectric Project	WV	62386	NA2	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA2	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA3	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA4	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA5	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA6	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Philo L&D Hydroelectric Project	OH	62427	NA2	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	11	61906	Rye Development	IPP	Point Marion L&D Hydroelectric Project	PA	62384	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Rokeby L&D Hydroelectric Project	OH	62426	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Sardis Lake Hydroelectric Project	MS	62425	NA2	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	7.5
2023	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
2023	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
2023	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
2023	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
2023	12	63217	Obsidian Solar Center LLC	IPP	Obsidian Solar Center	OR	63488	OBSLR	400.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	400.0
2023	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2023	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCBAT	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCSOL	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2024	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
2024	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
2024	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
2024	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
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	10	5416	Duke Energy Carolinas, LLC	Electric Utility	Lincoln Combustion	NC	7277	17	517.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	536.4
2024	12	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
2024	12	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Disposal	NC	57492	GEN7	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2024	12	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Disposal	NC	57492	GEN8	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2024	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-C	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
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	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-1	20.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-2	20.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-3	20.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-4	20.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	CTG-5	20.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	22.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	PV1	0.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	0.5
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	STG-1	14.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	15.0

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)
2025	1	63342	New Jersey Transit Corporation (NJ Transit)	Commercial	NJ TRANSITGRID	NJ	63631	STOR1	8.1	Flywheels	MWH	FW	(L) Regulatory approvals pending. Not under construction	8.1
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
2025	7	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	3	420.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	420.0
2025	7	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	4	420.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	420.0
2025	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
2025	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
2025	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
2025	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
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	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-B	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2026	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
2020	5	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2020	5	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT1	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT2	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT3	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT4	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT5	1.4	Landfill Gas	LFG	IC
2020	5	2848	California Institute-Technology	Commercial	California Institute of Technology	CA	10262	GEN6	9.0	Natural Gas Fired Combined Cycle	NG	CT
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	15174	Freeport McMoRan Oil & Gas	Industrial	Gaviota Oil Plant	CA	50623	GENA	3.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	15174	Freeport McMoRan Oil & Gas	Industrial	Gaviota Oil Plant	CA	50623	GENB	3.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	15174	Freeport McMoRan Oil & Gas	Industrial	Gaviota Oil Plant	CA	50623	GENC	3.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	15174	Freeport McMoRan Oil & Gas	Industrial	Gaviota Oil Plant	CA	50623	GEND	3.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	9379	Inter-Power/AhlCon Partners, L.P.	IPP	Colver Power Project	PA	10143	COLV	110.0	Conventional Steam Coal	WC	ST
2020	5	57172	SC Landfill Energy LLC	IPP	SC Landfill Energy LLC	NJ	57843	GEN1	1.8	Landfill Gas	LFG	IC
2020	5	57174	SX Landfill Energy LLC	IPP	SX Landfill Energy LLC	NJ	57846	UNIT1	1.5	Landfill Gas	LFG	IC
2020	5	57174	SX Landfill Energy LLC	IPP	SX Landfill Energy LLC	NJ	57846	UNIT2	1.5	Landfill Gas	LFG	IC
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Knox Lee	TX	3476	2	31.0	Natural Gas Steam Turbine	NG	ST
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Knox Lee	TX	3476	3	25.0	Natural Gas Steam Turbine	NG	ST
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Lieberman	LA	1417	2	26.0	Natural Gas Steam Turbine	NG	ST
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Lone Star	TX	3477	1	50.0	Natural Gas Steam Turbine	NG	ST
2020	6	58620	AEP Generation Resources Inc	IPP	Conesville	OH	2840	4	780.0	Conventional Steam Coal	BIT	ST
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 1	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 2	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 3	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 4	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 5	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 6	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 7	0.7	Landfill Gas	LFG	IC
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	7483	City of Grand Haven - (MI)	Electric Utility	J B Sims	MI	1825	3	69.1	Conventional Steam Coal	BIT	ST
2020	6	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2020	6	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2020	6	14268	City of Owensboro - (KY)	Electric Utility	Elmer Smith	KY	1374	1	137.0	Conventional Steam Coal	BIT	ST
2020	6	14268	City of Owensboro - (KY)	Electric Utility	Elmer Smith	KY	1374	2	262.8	Conventional Steam Coal	BIT	ST
2020	6	59878	Clean Fuel Partners Dane	Electric CHP	Clean Fuel Dane Community Digester	WI	59559	GEN#1	1.0	Other Waste Biomass	OBG	IC
2020	6	59878	Clean Fuel Partners Dane	Electric CHP	Clean Fuel Dane Community Digester	WI	59559	GEN#2	1.0	Other Waste Biomass	OBG	IC
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT2	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT3	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT4	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Westport	MD	1560	GT5	115.8	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	6035	Exelon Power	IPP	Fairless Hills	PA	7701	A	30.0	Landfill Gas	LFG	ST
2020	6	6035	Exelon Power	IPP	Fairless Hills	PA	7701	B	30.0	Landfill Gas	LFG	ST
2020	6	60422	H.A. Wagner LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	RC	ST
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	21.5	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	45.1	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	33.7	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	27.2	Natural Gas Fired Combustion Turbine	NG	GT
2020	7	6035	Exelon Power	IPP	Pennsbury	PA	7690	1	2.0	Landfill Gas	LFG	GT
2020	7	6035	Exelon Power	IPP	Pennsbury	PA	7690	2	2.0	Landfill Gas	LFG	GT
2020	7	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	10	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	7	17897	St Mary's Hospital	Commercial	Saint Marys Hospital Power Plant	MN	54262	6	2.7	Natural Gas Internal Combustion Engine	NG	IC
2020	7	20737	Willmar Municipal Utilities	Electric Utility	Willmar	MN	2022	3	16.8	Natural Gas Steam Turbine	NG	ST
2020	7	20737	Willmar Municipal Utilities	Electric Utility	Willmar	MN	2022	ST2	6.5	Natural Gas Steam Turbine	NG	ST
2020	8	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	2	173.0	Conventional Steam Coal	BIT	ST
2020	8	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	3	173.0	Conventional Steam Coal	BIT	ST
2020	8	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	ST1	173.0	Conventional Steam Coal	BIT	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	8	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2020	8	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2020	9	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	9	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	9	15474	Public Service Co of Oklahoma	Electric Utility	Oklaunion	TX	127	1	650.0	Conventional Steam Coal	SUB	ST
2020	9	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG1	2.8	Natural Gas Internal Combustion Engine	NG	IC
2020	9	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG2	2.8	Natural Gas Internal Combustion Engine	NG	IC
2020	9	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG3	2.8	Natural Gas Internal Combustion Engine	NG	IC
2020	10	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG1	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	10	1752	Biola University	Commercial	Biola University Hybrid	CA	54296	EG2	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	1	78.0	Conventional Steam Coal	BIT	ST
2020	10	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	2	238.0	Conventional Steam Coal	BIT	ST
2020	10	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	3	238.0	Conventional Steam Coal	BIT	ST
2020	11	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1367	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	11	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1391	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	11	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1392	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	12	803	Arizona Public Service Co	Electric Utility	Cholla	AZ	113	4	380.0	Conventional Steam Coal	SUB	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	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	1	73.0	Conventional Steam Coal	BIT	ST
2020	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	2	70.5	Conventional Steam Coal	BIT	ST
2020	12	6452	Florida Power & Light Co	Electric Utility	Indiantown Cogeneration LP	FL	50976	GEN1	330.0	Conventional Steam Coal	BIT	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	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	7	0.6	Petroleum Liquids	DFO	IC
2020	12	58341	McKinley Paper Co. - Washington Mill	Industrial	McKinley Paper Co. - Washington Mill	WA	58352	G-11	20.0	Wood/Wood Waste Biomass	WDS	ST
2020	12	55269	NextEra Energy Duane Arnold LLC	IPP	Duane Arnold Energy Center	IA	1060	1	601.4	Nuclear	NUC	ST
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	RC	ST
2020	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Escalante	NM	87	1	253.0	Conventional Steam Coal	SUB	ST
2021	1	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	1	6.5	Natural Gas Fired Combined Cycle	NG	CA
2021	1	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	2	6.5	Natural Gas Fired Combined Cycle	NG	CA
2021	1	3258	Central Iowa Power Cooperative	Electric Utility	Summit Lake	IA	1206	3	7.0	Natural Gas Fired Combined Cycle	NG	CA
2021	1	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2021	1	61854	Veolia Energy Operating Service	Electric CHP	Spruance Operating Services LLC	VA	54081	GEN1	52.5	Conventional Steam Coal	BIT	ST
2021	1	61854	Veolia Energy Operating Service	Electric CHP	Spruance Operating Services LLC	VA	54081	GEN2	52.5	Conventional Steam Coal	BIT	ST
2021	2	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
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	3A	0.5	Petroleum Liquids	DFO	IC
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	4A	0.5	Petroleum Liquids	DFO	IC
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	6	0.6	Petroleum Liquids	DFO	IC
2021	3	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	1	53.1	Conventional Steam Coal	LIG	ST
2021	4	6028	Entergy Nuclear Indian Point 3	IPP	Indian Point 3	NY	8907	3	1,037.9	Nuclear	NUC	ST
2021	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2021	5	9273	Indianapolis Power & Light Co	Electric Utility	AES Petersburg	IN	994	ST1	222.5	Conventional Steam Coal	BIT	ST
2021	5	9210	International Paper Co-Riegelwood	Industrial	International Paper Riegelwood Mill	NC	54656	NO 1	7.8	Wood/Wood Waste Biomass	BLQ	ST
2021	5	9210	International Paper Co-Riegelwood	Industrial	International Paper Riegelwood Mill	NC	54656	NO3	44.5	Wood/Wood Waste Biomass	BLQ	ST
2021	5	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	3	103.1	Natural Gas Steam Turbine	NG	ST
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy Eastlake	OH	2837	6	24.0	Petroleum Liquids	DFO	GT
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	A1	3.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B1	3.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B2	3.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B3	2.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B4	2.0	Petroleum Liquids	DFO	IC
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D1	0.2	Petroleum Liquids	DFO	IC
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D2	0.1	Petroleum Liquids	DFO	IC
2021	6	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	3	383.4	Conventional Steam Coal	SUB	ST
2021	7	18301	City of Sumner - (IA)	Electric Utility	Sumner	IA	1191	1	2.6	Petroleum Liquids	DFO	IC
2021	7	18301	City of Sumner - (IA)	Electric Utility	Sumner	IA	1191	2	1.1	Petroleum Liquids	DFO	IC
2021	7	18301	City of Sumner - (IA)	Electric Utility	Sumner	IA	1191	6	1.8	Petroleum Liquids	DFO	IC
2021	8	7080	Aclara Meters LLC	Industrial	General Electric Great Falls Upper Hydro	NH	10059	1575	1.6	Conventional Hydroelectric	WAT	HY
2021	8	7080	Aclara Meters LLC	Industrial	General Electric Great Falls Upper Hydro	NH	10059	500	0.5	Conventional Hydroelectric	WAT	HY
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	11	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	ST2	385.0	Conventional Steam Coal	BIT	ST
2021	11	60538	Vitro Architectural Glass	Industrial	Works 4	TX	54364	L2G	2.0	Petroleum Liquids	DFO	IC
2021	12	4716	Dairyland Power Coop	Electric Utility	Genoa	WI	4143	ST3	307.5	Conventional Steam Coal	SUB	ST
2021	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	1	197.7	Conventional Steam Coal	SUB	ST
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	12.5	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.4	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.9	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	60558	Rock County Energy Center, LLC	IPP	Minwind 3-9	MN	56123	1	11.6	Onshore Wind Turbine	WND	WT
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	3	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	1	29.5	Conventional Steam Coal	LIG	ST
2022	3	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	2	74.8	Conventional Steam Coal	LIG	ST
2022	3	60538	Vitro Architectural Glass	Industrial	Works 4	TX	54364	L1G	2.0	Petroleum Liquids	DFO	IC
2022	4	6452	Florida Power & Light Co	Electric Utility	Manatee	FL	6042	1	809.0	Petroleum Liquids	RFO	ST
2022	4	6452	Florida Power & Light Co	Electric Utility	Manatee	FL	6042	2	809.0	Petroleum Liquids	RFO	ST
2022	5	5109	DTE Electric Company	Electric Utility	River Rouge	MI	1740	3	272.0	Conventional Steam Coal	SUB	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	2	154.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	3	160.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	6	311.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	7	440.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	Trenton Channel	MI	1745	9	495.0	Conventional Steam Coal	SUB	ST
2022	5	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2022	5	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2022	6	23279	Allegheny Energy Supply Co LLC	IPP	FirstEnergy Pleasants Power Station	WV	6004	1	644.0	Conventional Steam Coal	RC	ST
2022	6	23279	Allegheny Energy Supply Co LLC	IPP	FirstEnergy Pleasants Power Station	WV	6004	2	644.0	Conventional Steam Coal	RC	ST
2022	6	11241	Entergy Louisiana LLC	Electric Utility	Sterlington	LA	1404	7A	47.0	Natural Gas Fired Combined Cycle	NG	CT
2022	6	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	771.6	Nuclear	NUC	ST
2022	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	1	211.6	Natural Gas Steam Turbine	NG	ST
2022	6	14584	Pawtucket Power Associates LP	IPP	Pawtucket Power Associates	RI	54056	GEN1	33.0	Natural Gas Fired Combined Cycle	NG	CT
2022	6	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	1	340.0	Conventional Steam Coal	RC	ST
2022	6	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	4	507.0	Conventional Steam Coal	RC	ST
2022	8	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	Natural Gas Steam Turbine	NG	ST
2022	8	60791	Monroe County (NY)	Commercial	Iola Powerhouse & Cogeneration Facility	NY	62424	1	1.4	Natural Gas Internal Combustion Engine	NG	IC
2022	8	60791	Monroe County (NY)	Commercial	Iola Powerhouse & Cogeneration Facility	NY	62424	2	1.4	Natural Gas Internal Combustion Engine	NG	IC
2022	8	60791	Monroe County (NY)	Commercial	Iola Powerhouse & Cogeneration Facility	NY	62424	3	1.4	Natural Gas Internal Combustion Engine	NG	IC
2022	9	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	2	90.0	Natural Gas Steam Turbine	NG	ST
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	1	565.7	Conventional Steam Coal	RC	ST
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	2	580.5	Conventional Steam Coal	RC	ST
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	4	3.0	Petroleum Liquids	DFO	IC
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	5	3.0	Petroleum Liquids	DFO	IC
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	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	76.0	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	Cunningham	NM	2454	1	71.0	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
2022	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	1	38.0	Natural Gas Steam Turbine	NG	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	1	118.0	Natural Gas Steam Turbine	NG	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	2	118.0	Natural Gas Steam Turbine	NG	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	3	260.0	Conventional Steam Coal	SUB	ST
2022	12	19436	Union Electric Co - (MO)	Electric Utility	Meramec	MO	2104	4	334.0	Conventional Steam Coal	SUB	ST
2022	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	5	413.6	Conventional Steam Coal	SUB	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	1	57301	Orchard Mesa Irrigation District	Electric Utility	Grand Valley Project Power Plant	CO	473	1	1.5	Conventional Hydroelectric	WAT	HY
2023	1	61956	South Nassau Communities Hospital	Commercial	Mount Sinai South Nassau	NY	62447	1	1.1	Petroleum Liquids	DFO	IC
2023	1	61956	South Nassau Communities Hospital	Commercial	Mount Sinai South Nassau	NY	62447	2	0.8	Petroleum Liquids	DFO	IC
2023	1	61956	South Nassau Communities Hospital	Commercial	Mount Sinai South Nassau	NY	62447	3	1.0	Petroleum Liquids	DFO	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	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	1A	127.5	Conventional Steam Coal	SUB	ST
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	1B	127.5	Conventional Steam Coal	SUB	ST
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	2A	126.5	Conventional Steam Coal	SUB	ST
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	2B	126.5	Conventional Steam Coal	SUB	ST
2023	5	9267	Hoosier Energy R E C, Inc	Electric Utility	Merom	IN	6213	1	497.0	Conventional Steam Coal	BIT	ST
2023	5	9267	Hoosier Energy R E C, Inc	Electric Utility	Merom	IN	6213	2	494.0	Conventional Steam Coal	BIT	ST
2023	5	9273	Indianapolis Power & Light Co	Electric Utility	AES Petersburg	IN	994	ST2	421.8	Conventional Steam Coal	BIT	ST
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-1	35.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-2	34.2	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-3	36.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	2-4	35.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-1	34.6	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-2	35.2	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-3	34.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	3-4	36.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-1	31.9	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-2	33.5	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-3	34.1	Natural Gas Fired Combustion Turbine	NG	GT
2023	5	13582	NRG Astoria Gas Turbine Operations Inc	IPP	Astoria Gas Turbines	NY	55243	4-4	33.3	Natural Gas Fired Combustion Turbine	NG	GT
2023	6	18488	City of Taunton	Electric Utility	Cleary Flood Hybrid	MA	1682	8	26.0	Petroleum Liquids	RFO	ST
2023	6	12685	Entergy Mississippi LLC	Electric Utility	Baxter Wilson	MS	2050	1	494.3	Natural Gas Steam Turbine	NG	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	14	431.0	Conventional Steam Coal	SUB	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	15	472.0	Conventional Steam Coal	SUB	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	17	361.0	Conventional Steam Coal	BIT	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	18	361.0	Conventional Steam Coal	BIT	ST
2023	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2023	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2023	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	1	6.2	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	2	6.4	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	3	6.9	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2023	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	3	177.7	Conventional Steam Coal	BIT	ST
2023	12	15908	GenOn California South, LP	IPP	Ellwood	CA	8076	01	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2023	12	15908	GenOn California South, LP	IPP	Ormond Beach	CA	350	1	741.0	Natural Gas Steam Turbine	NG	ST
2023	12	15908	GenOn California South, LP	IPP	Ormond Beach	CA	350	2	750.0	Natural Gas Steam Turbine	NG	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	1	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	2	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	3	36.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	4	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	1	9.0	Wood/Wood Waste Biomass	WDS	ST

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	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	163.0	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	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	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
2023	12	18642	Tennessee Valley Authority	Electric Utility	Bull Run	TN	3396	1	870.0	Conventional Steam Coal	BIT	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	1	4.7	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	2	4.8	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	3	11.0	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	4	11.9	Petroleum Liquids	RFO	ST
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	73	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	74	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	81	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	82	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	83	64.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	84	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	11241	Entergy Louisiana LLC	Electric Utility	Waterford 1 & 2	LA	8056	2	417.3	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	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	1	217.0	Natural Gas Steam Turbine	NG	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	2	230.0	Natural Gas Steam Turbine	NG	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	3	412.0	Natural Gas Steam Turbine	NG	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	1	162.0	Conventional Steam Coal	BIT	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	2	162.0	Conventional Steam Coal	BIT	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	3	258.0	Conventional Steam Coal	BIT	ST
2024	12	56211	Evergy Missouri West	Electric Utility	Kansas City International	MO	6144	1	16.7	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	56211	Evergy Missouri West	Electric Utility	Kansas City International	MO	6144	2	16.9	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	56211	Evergy Missouri West	Electric Utility	Lake Road (MO)	MO	2098	4	97.1	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	111.8	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	156.3	Natural Gas Steam Turbine	NG	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	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2024	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2025	1	17568	Cooperative Energy	Electric Utility	Moselle	MS	2070	3	59.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	1	169.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	2	169.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	3	273.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	4	552.0	Natural Gas Steam Turbine	NG	ST
2025	4	7801	Gulf Power Co	Electric Utility	Pea Ridge	FL	7715	1	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	7801	Gulf Power Co	Electric Utility	Pea Ridge	FL	7715	2	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	7801	Gulf Power Co	Electric Utility	Pea Ridge	FL	7715	3	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	10wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	11wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	12wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	13WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	14wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	15WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	16WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	17WT	0.1	Onshore Wind Turbine	WND	WT

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	1WT	0.6	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	2WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	3WT	0.2	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	4WT	0.5	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	5WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	6WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	7WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	8WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	9wt	0.1	Onshore Wind Turbine	WND	WT
2025	6	814	Entergy Arkansas LLC	Electric Utility	Lake Catherine	AR	170	4	522.0	Natural Gas Steam Turbine	NG	ST
2025	7	13781	Northern States Power Co - Minnesota	Electric Utility	White River (WI)	WI	3989	1	0.2	Conventional Hydroelectric	WAT	HY
2025	7	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	9417	Interstate Power and Light Co	Electric Utility	Prairie Creek	IA	1073	1	3.6	Conventional Steam Coal	SUB	ST
2025	12	9417	Interstate Power and Light Co	Electric Utility	Prairie Creek	IA	1073	3	26.4	Conventional Steam Coal	SUB	ST
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	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
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	51.0	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	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	17698	Southwestern Electric Power Co	Electric Utility	Arsenal Hill	LA	1416	5	110.0	Natural Gas Steam Turbine	NG	ST
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	427.0	Conventional Steam Coal	SUB	ST
2026	6	11241	Entergy Louisiana LLC	Electric Utility	Little Gypsy	LA	1402	2	415.0	Natural Gas Steam Turbine	NG	ST
2026	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	3	359.0	Natural Gas Steam Turbine	NG	ST
2026	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	4	512.5	Natural Gas Steam Turbine	NG	ST
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	12.7	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	11.9	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	9.4	Natural Gas Fired Combustion Turbine	NG	GT
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	95.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	89.0	Natural Gas Fired Combined Cycle	NG	CA
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	69.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	69.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	1	78.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	78.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	56997	Marina Energy LLC	IPP	L'Oreal Piscataway	NJ	57868	UNIT1	0.8	Solar Photovoltaic	SUN	PV
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	1	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	2	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	3	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	5	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	6	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	7	1.8	Petroleum Liquids	DFO	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	8	1.8	Petroleum Liquids	DFO	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Alamosa	CO	464	CT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Alamosa	CO	464	CT2	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fort Lupton	CO	8067	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fort Lupton	CO	8067	2	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fruita	CO	471	1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	6	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HH	0.5	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HII	0.4	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HJC	0.2	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	UNIT1	2.7	Solar Photovoltaic	SUN	PV
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED01	150.0	Natural Gas Fired Combined Cycle	NG	CT
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED02	150.0	Natural Gas Fired Combined Cycle	NG	CT
2027	4	5695	Desert Star Energy Center SDG&E	Electric Utility	Desert Star Energy Center	NV	55077	ED03	150.0	Natural Gas Fired Combined Cycle	NG	CA
2027	6	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	1	900.0	Conventional Steam Coal	BIT	ST
2027	6	11208	Los Angeles Department of Water & Power	Electric Utility	Intermountain Power Project	UT	6481	2	900.0	Conventional Steam Coal	BIT	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Red Wing	MN	1926	1	9.0	Municipal Solid Waste	MSW	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Red Wing	MN	1926	2	9.0	Municipal Solid Waste	MSW	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	1	1.8	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	2	1.8	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	3	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	4	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	5	2.0	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	6	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	7	2.0	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	St Croix Falls	WI	4011	8	1.9	Conventional Hydroelectric	WAT	HY
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wilmarth	MN	1934	1	9.0	Municipal Solid Waste	MSW	ST
2027	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wilmarth	MN	1934	2	9.0	Municipal Solid Waste	MSW	ST
2027	12	15466	Public Service Co of Colorado	Electric Utility	Cherokee	CO	469	4	310.0	Natural Gas Steam Turbine	NG	ST
2027	12	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	2	0.6	Conventional Hydroelectric	WAT	HY
2027	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	4	190.0	Natural Gas Steam Turbine	NG	ST
2028	1	56997	Marina Energy LLC	IPP	Freeze Solar	NJ	60759	PV1	1.5	Solar Photovoltaic	SUN	PV
2028	5	56997	Marina Energy LLC	IPP	Heller 400M	NJ	62438	A	0.8	Solar Photovoltaic	SUN	PV
2028	5	56997	Marina Energy LLC	IPP	Heller 400M	NJ	62438	B	0.2	Solar Photovoltaic	SUN	PV
2028	5	56997	Marina Energy LLC	IPP	Heller 400M	NJ	62438	C	0.2	Solar Photovoltaic	SUN	PV
2028	5	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HM	0.8	Solar Photovoltaic	SUN	PV
2028	5	13756	Northern Indiana Pub Serv Co	Electric Utility	Michigan City	IN	997	12	455.0	Conventional Steam Coal	SUB	ST
2028	12	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	2	410.0	Natural Gas Steam Turbine	NG	ST
2028	12	61944	GSRP	IPP	ACCC Mays Landing	NJ	60802	PV1	1.4	Solar Photovoltaic	SUN	PV
2028	12	61944	GSRP	IPP	IFF Hazlet	NJ	60709	GRND	3.0	Solar Photovoltaic	SUN	PV
2028	12	9324	Indiana Michigan Power Co	Electric Utility	Rockport	IN	6166	1	1,300.0	Conventional Steam Coal	SUB	ST
2028	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	1	112.0	Natural Gas Steam Turbine	NG	ST
2029	5	5109	DTE Electric Company	Electric Utility	Belle River	MI	6034	ST1	635.0	Conventional Steam Coal	RC	ST
2029	6	11241	Entergy Louisiana LLC	Electric Utility	Little Gypsy	LA	1402	3	517.4	Natural Gas Steam Turbine	NG	ST
2029	10	56667	Loraine Windpower Project	IPP	Loraine Windpark Project LLC	TX	57303	LWG1	73.5	Onshore Wind Turbine	WND	WT
2030		30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	2	410.0	Conventional Steam Coal	SUB	ST
2030		30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	3	448.0	Conventional Steam Coal	SUB	ST
2030	1	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	1	831.0	Conventional Steam Coal	SUB	ST
2030	1	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	2	858.0	Conventional Steam Coal	SUB	ST
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	3	104.0	Natural Gas Fired Combined Cycle	NG	CA
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	31	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	32	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	33	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	34	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	4	104.0	Natural Gas Fired Combined Cycle	NG	CA
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	41	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	42	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	43	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	44	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	51	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	52	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	53	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	54	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	55	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	56	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	GT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2030	5	5109	DTE Electric Company	Electric Utility	Belle River	MI	6034	ST2	635.0	Conventional Steam Coal	RC	ST
2030	12	40230	Deseret Generation & Tran Coop	Electric Utility	Bonanza	UT	7790	1	458.0	Conventional Steam Coal	BIT	ST
2030	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	3	244.0	Natural Gas Steam Turbine	NG	ST
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2031	6	11241	Entergy Louisiana LLC	Electric Utility	Nine Mile Point	LA	1403	6(4)	729.5	Natural Gas Steam Turbine	NG	ST
2031	12	803	Arizona Public Service Co	Electric Utility	Four Corners	NM	2442	4	770.0	Conventional Steam Coal	SUB	ST
2031	12	803	Arizona Public Service Co	Electric Utility	Four Corners	NM	2442	5	770.0	Conventional Steam Coal	SUB	ST
2031	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	1	243.0	Natural Gas Steam Turbine	NG	ST
2032	1	54888	NRG Texas Power LLC	IPP	San Jacinto Steam Electric Station	TX	7325	1	81.0	Natural Gas Fired Combustion Turbine	NG	GT
2032	1	54888	NRG Texas Power LLC	IPP	San Jacinto Steam Electric Station	TX	7325	2	81.0	Natural Gas Fired Combustion Turbine	NG	GT
2033	6	11241	Entergy Louisiana LLC	Electric Utility	Nine Mile Point	LA	1403	5	743.8	Natural Gas Steam Turbine	NG	ST
2034	6	55937	Entergy Texas Inc.	Electric Utility	Lewis Creek	TX	3457	1	249.0	Natural Gas Steam Turbine	NG	ST
2034	6	55937	Entergy Texas Inc.	Electric Utility	Lewis Creek	TX	3457	2	254.0	Natural Gas Steam Turbine	NG	ST
2034	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	3	876.0	Conventional Steam Coal	SUB	ST
2034	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	2	243.0	Natural Gas Steam Turbine	NG	ST
2034	12	17718	Southwestern Public Service Co	Electric Utility	Quay County	NM	58125	1	17.0	Petroleum Liquids	DFO	GT
2035	6	12685	Entergy Mississippi LLC	Electric Utility	Gerald Andrus	MS	8054	1	727.5	Natural Gas Steam Turbine	NG	ST
2036	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	1	339.0	Conventional Steam Coal	SUB	ST
2037	11	54888	NRG Texas Power LLC	IPP	NRG Elbow Creek Energy Storage Project	TX	61362	ECBS	2.0	Batteries	MWH	BA
2037	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	1	532.0	Conventional Steam Coal	SUB	ST
2037	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	2	535.0	Conventional Steam Coal	SUB	ST
2038	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	2	339.0	Conventional Steam Coal	SUB	ST
2039	7	56020	NRG Cedar Bayou Development Company LLC	IPP	Cedar Bayou 4	TX	56806	4	172.0	Natural Gas Fired Combined Cycle	NG	CA
2039	7	56020	NRG Cedar Bayou Development Company LLC	IPP	Cedar Bayou 4	TX	56806	41	165.0	Natural Gas Fired Combined Cycle	NG	CT
2039	7	56020	NRG Cedar Bayou Development Company LLC	IPP	Cedar Bayou 4	TX	56806	42	165.0	Natural Gas Fired Combined Cycle	NG	CT
2040	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	3	106.0	Natural Gas Fired Combustion Turbine	NG	GT
2040	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	4	103.0	Natural Gas Fired Combustion Turbine	NG	GT
2040	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	3	340.0	Conventional Steam Coal	SUB	ST
2043	12	58840	Copenhagen Wind Farm, LLC	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	5	664.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	6	663.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	7	577.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	8	610.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	GT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2045	1	58365	Petra Nova Power I LLC	IPP	W.A. Parish Carbon Capture Plant	TX	58378	GT2	74.0	Natural Gas Fired Combustion Turbine	NG	GT
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV
2049	4	61612	Panda Solar NC 1, LLC	IPP	Panda Solar NC 1, LLC	NC	62089	20002	1.0	Solar Photovoltaic	SUN	PV
2049	4	61655	Panda Solar NC 2, LLC	IPP	Panda Solar NC 2, LLC	NC	62120	20003	2.0	Solar Photovoltaic	SUN	PV
2049	6	61663	Panda Solar NC 10, LLC	IPP	Panda Solar NC 10, LLC	NC	62128	20031	2.0	Solar Photovoltaic	SUN	PV
2049	6	61664	Panda Solar NC 11, LLC	IPP	Panda Solar NC 11, LLC	NC	62129	20032	2.0	Solar Photovoltaic	SUN	PV
2049	6	61656	Panda Solar NC 3, LLC	IPP	Panda Solar NC 3, LLC	NC	62121	20011	2.0	Solar Photovoltaic	SUN	PV
2049	6	61658	Panda Solar NC 5, LLC	IPP	Panda Solar NC 5, LLC	NC	62123	20007	1.0	Solar Photovoltaic	SUN	PV
2049	6	61660	Panda Solar NC 6, LLC	IPP	Panda Solar NC 6, LLC	NC	62124	20028	1.0	Solar Photovoltaic	SUN	PV
2049	6	61662	Panda Solar NC 9, LLC	IPP	Panda Solar NC 9, LLC	NC	62127	20022	2.0	Solar Photovoltaic	SUN	PV
2049	9	61661	Panda Solar NC 8, LLC	IPP	Panda Solar NC 8, LLC	NC	62126	20052	2.0	Solar Photovoltaic	SUN	PV
2056	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	3	166.0	Natural Gas Fired Combustion Turbine	NG	GT
2058	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	4	168.0	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 6.07.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels

Year/Month	Coal		Natural Gas								Petroleum					
			Combined Cycle		Gas Turbine		Steam Turbine		Internal Combustion		Steam Turbine		Gas Turbine		Internal Combustion	
	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor
Annual Data																
2010	313,393.9	67.1%	202,404.4	44.3%	116,426.0	7.8%	80,233.7	11.1%	2,543.0	6.5%	29,871.2	13.6%	19,565.5	2.0%	5,016.0	2.1%
2011	314,056.1	62.8%	210,518.7	44.3%	119,144.1	7.9%	78,898.6	11.7%	2,822.5	8.4%	26,683.0	12.6%	18,397.7	1.3%	4,986.0	2.2%
2012	304,974.9	56.2%	217,938.2	52.2%	119,319.4	8.9%	74,200.2	13.3%	2,988.8	7.3%	22,483.7	13.7%	17,773.5	1.3%	4,942.5	2.0%
2013	302,604.4	59.4%	219,902.9	48.8%	123,025.6	8.3%	75,810.5	11.2%	2,996.2	8.8%	20,022.9	12.6%	17,224.1	0.9%	4,999.4	2.1%
2014	299,064.7	60.5%	224,183.2	48.6%	124,736.9	8.3%	75,049.1	10.3%	3,026.7	10.8%	18,057.0	13.0%	16,791.5	1.2%	5,011.3	2.1%
2015	286,082.7	54.3%	231,467.5	55.8%	123,444.3	9.8%	80,348.0	11.3%	3,507.8	11.9%	14,965.4	14.0%	16,122.8	1.3%	5,075.2	2.1%
2016	269,477.1	52.8%	236,442.8	55.4%	125,148.4	11.0%	81,225.1	12.3%	3,684.3	11.5%	13,993.7	12.2%	15,114.0	1.3%	5,082.8	2.3%
2017	259,930.2	53.1%	242,839.1	51.2%	125,806.6	9.6%	79,149.4	10.7%	4,225.5	11.6%	13,290.9	13.7%	14,275.3	1.0%	5,153.3	2.1%
2018	246,866.8	53.6%	254,403.3	55.0%	126,763.4	11.9%	76,177.8	12.6%	4,446.6	13.0%	13,300.1	14.2%	14,234.9	1.3%	5,289.7	1.9%
2019	235,534.1	47.5%	267,130.4	56.8%	128,480.5	11.8%	73,591.7	14.3%	4,844.3	13.9%	11,712.2	12.7%	14,192.6	1.1%	5,250.4	2.2%
Year 2018																
January	251,730.8	64.0%	247,709.0	51.4%	126,362.3	11.7%	78,615.1	10.9%	4,280.9	11.8%	13,440.4	19.9%	14,336.6	3.5%	5,330.8	2.5%
February	250,522.8	49.1%	247,709.0	51.6%	126,189.1	9.3%	78,185.1	5.8%	4,292.9	12.0%	13,440.4	12.1%	14,336.6	0.8%	5,333.5	1.8%
March	249,781.8	43.8%	247,709.0	49.1%	126,170.5	10.3%	77,411.2	7.5%	4,288.5	11.9%	13,440.4	10.9%	14,336.6	0.9%	5,326.9	1.8%
April	248,603.8	41.5%	248,199.0	45.6%	126,338.5	10.5%	77,369.9	8.5%	4,372.4	10.9%	13,440.4	12.9%	14,336.6	1.0%	5,317.8	2.0%
May	248,603.8	46.7%	252,604.7	49.8%	126,690.5	11.3%	76,359.3	15.3%	4,372.4	12.0%	13,440.4	10.0%	14,336.6	1.1%	5,319.2	1.8%
June	245,407.8	58.0%	255,100.3	58.7%	126,881.1	12.4%	75,658.1	16.3%	4,362.4	13.1%	13,440.4	15.0%	14,166.6	1.4%	5,275.1	1.8%
July	245,407.8	63.8%	256,721.3	69.8%	126,878.6	16.3%	75,658.1	23.3%	4,369.0	18.3%	13,440.4	16.6%	14,166.6	1.5%	5,276.5	1.8%
August	245,407.8	63.6%	257,487.3	69.3%	127,267.4	15.0%	75,658.1	20.3%	4,594.6	16.9%	13,440.4	15.6%	14,166.6	1.3%	5,277.8	2.1%
Sept	245,113.4	55.3%	258,463.3	63.2%	127,146.3	13.8%	75,650.6	15.6%	4,594.3	13.8%	13,440.4	16.9%	14,166.6	1.3%	5,274.0	2.0%
October	244,837.5	48.5%	258,836.7	52.9%	127,104.0	11.6%	75,120.6	12.6%	4,595.0	12.4%	13,440.4	13.7%	14,166.6	1.1%	5,269.0	2.0%
November	244,426.5	53.2%	260,948.0	48.8%	126,977.7	10.5%	74,758.6	8.7%	4,613.6	11.7%	13,440.4	13.4%	14,154.6	1.1%	5,240.4	1.8%
December	242,785.6	55.9%	260,868.5	48.9%	127,108.3	9.1%	73,841.6	6.3%	4,613.6	11.0%	11,788.4	12.6%	14,154.6	1.0%	5,237.9	1.7%
Year 2019																
January	242,491.4	56.5%	263,679.0	54.0%	127,778.9	8.0%	73,634.6	8.7%	4,631.1	10.0%	11,788.4	12.8%	14,214.1	0.7%	5,248.6	2.0%
February	239,557.9	50.4%	263,679.0	55.3%	127,778.9	8.5%	74,619.1	8.0%	4,703.6	12.3%	11,788.4	12.8%	14,214.1	0.6%	5,250.6	1.7%
March	238,326.9	45.0%	263,362.0	50.0%	127,780.0	8.0%	74,010.1	9.0%	4,703.6	10.9%	11,855.4	12.2%	14,195.1	0.5%	5,247.8	1.6%
April	236,845.5	35.9%	266,197.3	45.0%	127,893.2	9.6%	74,005.8	11.0%	4,882.5	10.0%	11,709.4	11.1%	14,195.1	0.8%	5,245.4	1.8%
May	236,095.5	41.7%	266,482.7	48.6%	128,385.3	10.2%	74,005.8	13.8%	4,882.5	10.5%	11,709.4	15.8%	14,195.1	1.0%	5,254.2	2.1%
June	235,987.9	47.0%	268,187.8	59.6%	128,502.4	11.4%	73,711.1	16.4%	4,883.4	12.7%	11,709.4	15.0%	14,184.8	1.1%	5,254.2	2.3%
July	235,005.4	58.4%	269,033.1	69.8%	128,862.6	19.3%	73,681.1	24.7%	4,905.4	21.1%	11,709.4	16.7%	14,184.8	2.3%	5,255.9	3.0%
August	235,005.4	54.6%	269,033.1	70.8%	128,962.6	18.7%	73,681.1	25.3%	4,905.4	22.0%	11,709.4	16.4%	14,179.1	2.4%	5,247.6	3.2%
Sept	234,817.4	51.6%	269,033.1	63.9%	128,922.6	14.8%	73,681.1	19.9%	4,905.4	17.6%	11,642.4	15.1%	14,192.6	1.6%	5,251.6	2.7%
October	233,595.4	39.2%	268,480.5	54.8%	129,000.1	13.6%	73,196.1	15.9%	4,905.4	14.5%	11,642.4	8.9%	14,192.6	1.5%	5,251.6	2.4%
November	229,673.4	46.0%	269,047.5	52.3%	128,966.1	10.7%	73,023.1	9.2%	4,905.4	13.6%	11,642.4	7.5%	14,192.6	0.6%	5,251.6	2.1%
December	229,241.4	43.2%	269,143.4	57.0%	128,876.8	8.8%	71,952.3	8.6%	4,910.3	11.1%	11,642.4	7.9%	14,172.6	0.5%	5,245.2	1.8%
Year 2020																
January	227,611.7	39.1%	269,932.4	58.5%	128,783.4	8.9%	71,503.5	9.0%	4,927.8	10.2%	11,610.7	11.1%	14,082.8	0.9%	5,228.9	1.8%
February	227,178.5	36.4%	270,379.7	58.8%	128,899.7	9.5%	70,137.2	9.9%	5,024.8	11.3%	11,597.9	8.2%	14,097.4	0.7%	5,254.9	1.8%
March	225,799.1	30.9%	271,636.7	52.1%	128,842.1	9.7%	70,547.7	11.1%	5,028.6	12.7%	11,601.8	13.4%	13,836.1	0.7%	5,271.6	1.6%
April	225,819.2	25.5%	272,708.9	47.3%	128,823.6	8.0%	70,431.8	10.5%	5,117.5	10.5%	11,594.3	12.9%	13,943.9	0.6%	5,267.1	1.5%

Values for 2018 and prior years are final. Values for 2019 and 2020 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time weighted average of the month rows.
Capacity factors are a comparison of net generation with available capacity. See the technical note for an explanation of how capacity factors are calculated.
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 6.07.B. Capacity Factors for Utility Scale Generators Primarily Using Non-Fossil Fuels

Year/Month	Geothermal		Hydroelectric		Nuclear		Other Biomass		Other Gas		Solar				Wind		Wood	
											Photovoltaic		Thermal					
	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor	Time Adjusted Capacity	Capacity Factor
Annual Data																		
2010	2,392.1	71.6%	78,810.3	37.5%	101,167.4	91.1%	4,298.7	64.2%	1,929.0	50.5%	206.8	20.2%	473.0	24.5%	35,702.6	29.7%	6,991.5	61.5%
2011	2,407.9	71.5%	78,564.7	45.8%	101,265.1	89.1%	4,469.8	64.2%	1,902.7	54.1%	537.0	19.0%	485.3	23.9%	42,019.2	32.1%	7,000.3	59.6%
2012	2,531.8	68.3%	78,296.6	39.6%	101,166.0	86.6%	4,639.7	63.3%	1,802.8	59.6%	1,527.1	20.4%	476.0	23.6%	49,458.0	31.8%	7,089.1	61.3%
2013	2,509.5	71.8%	78,873.5	38.8%	99,006.8	90.8%	4,949.7	62.3%	2,171.6	55.9%	3,525.2	24.5%	552.1	17.4%	59,175.6	32.4%	7,887.9	59.0%
2014	2,513.3	72.0%	79,582.8	37.2%	98,569.3	91.7%	5,114.6	62.7%	1,994.0	54.0%	6,555.6	25.6%	1,445.3	18.3%	60,587.8	34.0%	8,319.7	60.0%
2015	2,523.0	71.9%	79,650.8	35.7%	98,614.6	92.3%	5,104.5	62.6%	2,527.7	60.8%	9,521.6	25.5%	1,697.3	21.7%	67,106.2	32.2%	9,024.5	59.3%
2016	2,516.6	71.6%	79,806.0	38.2%	99,364.8	92.3%	5,099.5	62.7%	2,458.8	64.8%	14,161.4	25.0%	1,757.9	22.1%	74,162.7	34.5%	8,979.8	58.3%
2017	2,460.4	73.2%	79,698.8	43.0%	99,619.5	92.3%	5,125.6	61.8%	2,375.8	62.8%	21,940.9	25.6%	1,757.9	21.8%	83,355.6	34.6%	8,807.5	60.2%
2018	2,391.5	76.0%	79,771.9	41.9%	99,605.2	92.5%	5,059.0	61.8%	2,543.9	65.4%	27,143.3	25.1%	1,757.9	23.6%	89,228.5	34.6%	8,760.2	60.6%
2019	2,457.2	74.4%	79,824.2	39.1%	98,787.9	93.5%	4,983.1	59.2%	2,547.7	67.0%	31,832.9	24.5%	1,757.9	21.2%	97,649.0	34.8%	8,501.4	60.9%
Year 2018																		
January	2,387.5	75.3%	79,771.8	42.2%	99,730.6	100.6%	5,108.5	62.2%	2,543.9	66.2%	25,311.1	16.3%	1,757.9	10.0%	87,552.6	38.7%	8,813.0	65.3%
February	2,403.5	78.9%	79,771.8	46.4%	99,730.6	96.7%	5,083.1	64.6%	2,543.9	66.6%	25,968.4	20.9%	1,757.9	16.1%	88,563.2	38.8%	8,813.0	62.5%
March	2,382.2	76.8%	79,785.3	43.6%	99,730.6	90.3%	5,086.1	62.0%	2,543.9	63.3%	26,067.6	24.3%	1,757.9	19.2%	88,787.7	40.1%	8,780.5	61.7%
April	2,392.2	69.0%	79,792.3	48.9%	99,730.6	82.4%	5,086.1	60.9%	2,543.9	61.6%	26,591.3	29.7%	1,757.9	24.4%	88,789.2	41.3%	8,780.5	55.6%
May	2,392.2	77.7%	79,753.3	51.3%	99,730.6	90.7%	5,083.5	59.4%	2,543.9	63.2%	26,859.7	31.8%	1,757.9	32.9%	89,086.2	36.0%	8,761.5	58.0%
June	2,392.2	75.5%	79,753.8	48.1%	99,730.6	97.1%	5,006.9	63.0%	2,543.9	64.1%	27,291.3	34.9%	1,757.9	41.7%	89,078.2	38.4%	8,775.5	61.7%
July	2,392.2	77.0%	79,751.6	42.3%	99,730.6	97.7%	5,050.2	62.3%	2,543.9	65.8%	27,451.7	31.1%	1,757.9	30.1%	89,227.2	24.7%	8,767.2	63.7%
August	2,392.2	76.8%	79,751.6	37.1%	99,730.6	97.4%	5,042.5	62.6%	2,543.9	68.7%	27,590.1	30.5%	1,757.9	32.5%	89,387.5	29.8%	8,748.7	62.2%
Sept	2,392.2	77.1%	79,751.6	33.4%	99,277.9	90.3%	5,042.5	58.3%	2,543.9	67.2%	27,674.0	27.7%	1,757.9	34.8%	89,469.5	28.6%	8,748.7	58.5%
October	2,392.2	71.5%	79,753.6	32.9%	99,277.9	80.4%	5,041.4	61.0%	2,543.9	64.3%	27,989.5	22.4%	1,757.9	20.7%	89,941.8	31.5%	8,748.7	56.5%
November	2,392.2	77.3%	79,753.6	38.1%	99,432.9	89.3%	5,039.0	62.3%	2,543.9	67.4%	28,158.3	17.3%	1,757.9	13.3%	90,282.8	33.8%	8,694.6	60.4%
December	2,387.9	79.4%	79,870.8	38.4%	99,432.9	96.9%	5,038.6	63.2%	2,543.9	67.0%	28,690.2	13.7%	1,757.9	7.0%	90,534.1	34.8%	8,694.6	61.4%
Year 2019																		
January	2,451.2	77.8%	79,868.4	40.7%	99,391.6	99.7%	5,030.5	59.8%	2,543.9	67.4%	30,261.1	15.5%	1,757.9	8.4%	94,391.7	35.5%	8,641.1	62.9%
February	2,451.2	79.4%	79,879.1	40.7%	99,391.6	96.9%	5,030.5	59.3%	2,543.9	68.9%	30,924.8	17.7%	1,757.9	10.9%	95,314.5	35.8%	8,641.1	62.6%
March	2,451.2	78.8%	79,895.1	43.0%	99,391.6	88.0%	4,996.6	58.1%	2,543.9	64.8%	31,132.5	24.2%	1,757.9	19.8%	95,806.3	36.4%	8,490.4	58.6%
April	2,459.1	70.0%	79,895.1	44.3%	99,546.6	84.5%	4,996.6	56.4%	2,548.9	63.2%	31,355.3	28.8%	1,757.9	25.5%	96,636.3	42.6%	8,567.3	56.4%
May	2,459.1	73.6%	79,875.2	50.6%	98,873.0	90.9%	4,991.0	58.7%	2,548.9	65.6%	31,444.8	29.3%	1,757.9	25.7%	96,638.1	36.0%	8,552.3	59.2%
June	2,459.1	76.9%	79,879.1	46.0%	98,873.0	96.7%	4,971.5	61.0%	2,548.9	66.1%	31,508.0	33.1%	1,757.9	35.5%	96,867.6	32.6%	8,482.8	61.8%
July	2,459.1	77.2%	79,880.6	39.9%	98,873.0	98.1%	4,973.1	60.3%	2,548.9	70.2%	31,818.6	32.6%	1,757.9	31.4%	98,111.7	30.0%	8,512.2	63.7%
August	2,459.1	77.0%	79,741.2	35.4%	98,873.0	97.8%	4,969.2	60.8%	2,548.9	67.1%	32,054.4	31.2%	1,757.9	32.0%	98,387.3	26.9%	8,512.2	66.3%
Sept	2,459.1	78.2%	79,741.0	28.4%	98,070.2	93.1%	4,959.3	59.4%	2,548.9	69.0%	32,276.1	27.4%	1,757.9	24.3%	98,936.2	33.9%	8,422.9	60.9%
October	2,459.1	69.8%	79,746.4	27.5%	98,070.2	85.0%	4,961.0	59.0%	2,548.9	61.5%	32,511.0	23.5%	1,757.9	23.0%	99,786.0	37.8%	8,415.9	57.2%
November	2,459.1	62.8%	79,746.4	35.7%	98,070.2	90.8%	4,962.4	58.4%	2,548.9	72.6%	32,999.2	17.5%	1,757.9	11.3%	99,952.8	35.4%	8,415.9	59.5%
December	2,459.1	71.1%	79,746.4	37.4%	98,070.2	100.1%	4,958.6	59.7%	2,548.9	68.3%	33,647.2	13.1%	1,757.9	5.4%	100,791.5	35.6%	8,372.9	62.2%
Year 2020																		
January	2,471.7	68.3%	79,851.9	40.9%	98,042.4	101.7%	4,909.5	61.0%	2,548.9	70.2%	35,466.7	16.3%	1,758.1	8.1%	103,575.3	36.7%	8,422.4	62.3%
February	2,557.7	64.2%	79,735.1	45.2%	98,119.0	96.6%	4,845.5	59.8%	2,548.9	70.2%	36,703.3	21.2%	1,758.1	14.5%	104,297.9	40.3%	8,402.9	62.2%
March	2,557.7	77.7%	79,787.7	37.5%	98,119.0	87.7%	4,844.4	62.9%	2,542.5	61.1%	37,229.4	21.9%	1,758.1	14.6%	104,358.6	37.8%	8,402.9	59.4%
April	2,557.7	73.1%	79,762.2	36.2%	97,102.9	83.9%	4,738.2	62.6%	2,542.5	59.7%	37,346.4	28.2%	1,758.1	24.2%	105,857.1	38.7%	8,398.1	58.3%

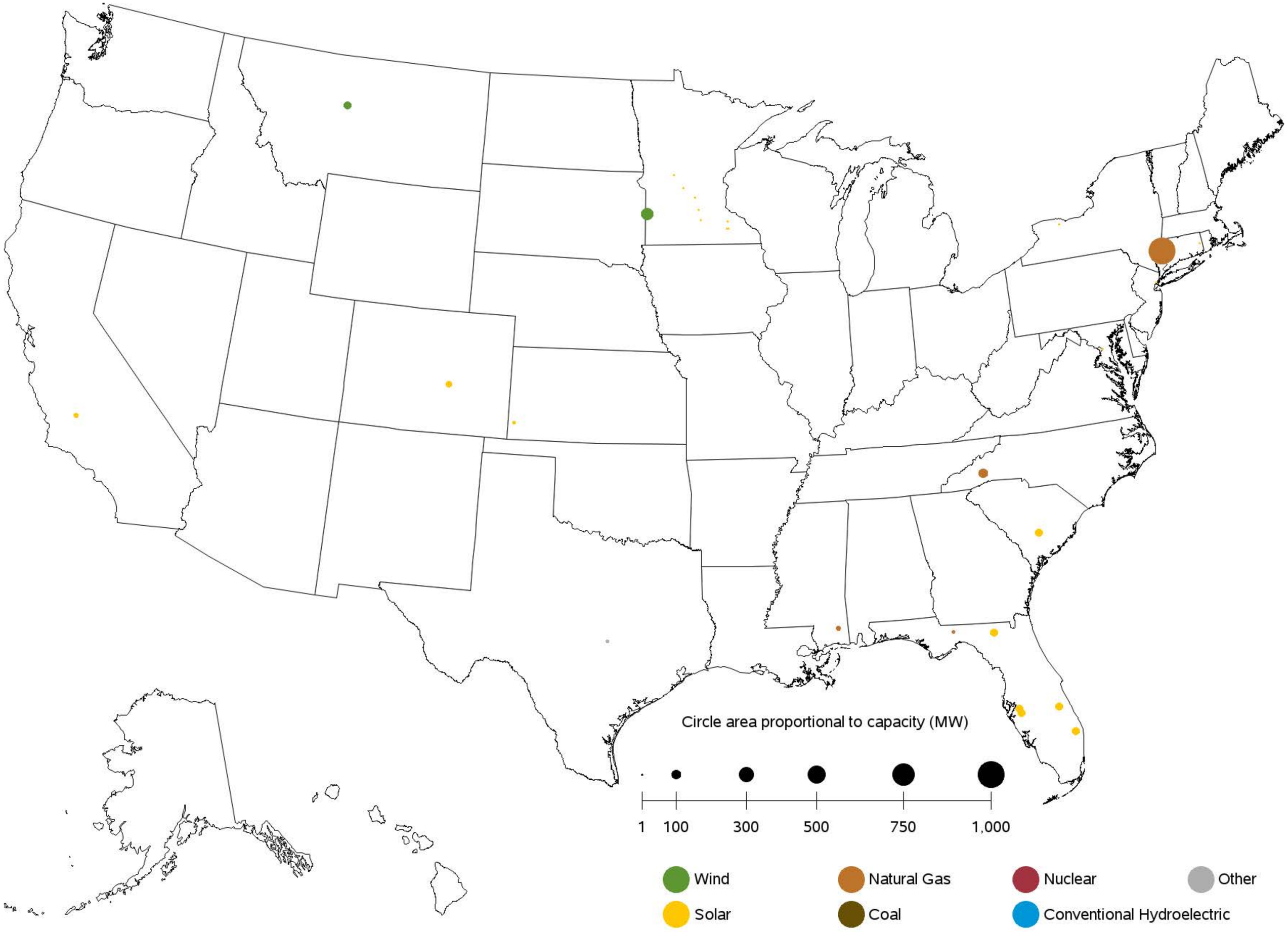
Values for 2018 and prior years are final. Values for 2019 and 2020 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time weighted average of the month rows.
Capacity factors are a comparison of net generation with available capacity. See the technical note for an explanation of how capacity factors are calculated.
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 6.07.C. Usage Factors for Utility Scale Storage Generators

	Battery		Pumped Storage	
Year/Month	Time Adjusted Capacity	Usage Factor	Time Adjusted Capacity	Usage Factor
Annual Data				
2013	126.7	0.7%	22,389.3	9.8%
2014	155.1	1.7%	22,477.9	10.2%
2015	206.8	3.6%	22,568.9	10.2%
2016	423.0	3.8%	22,752.7	11.2%
2017	632.8	6.8%	22,791.7	11.4%
2018	713.6	5.2%	22,815.4	10.8%
2019	952.3	4.0%	22,849.2	10.4%
Year 2018				
January	643.7	5.2%	22,785.2	9.8%
February	663.5	5.1%	22,785.2	9.6%
March	667.1	5.2%	22,785.2	7.9%
April	681.1	5.0%	22,785.2	8.2%
May	690.6	5.2%	22,830.2	11.0%
June	696.1	4.9%	22,830.2	13.2%
July	742.1	5.6%	22,830.2	15.5%
August	740.1	5.6%	22,830.2	16.1%
Sept	746.4	5.6%	22,830.2	12.2%
October	748.9	5.0%	22,830.2	9.4%
November	768.9	5.3%	22,830.2	8.2%
December	770.7	5.1%	22,830.2	7.7%
Year 2019				
January	861.3	3.8%	22,799.2	9.3%
February	873.6	4.2%	22,799.2	9.1%
March	898.4	5.2%	22,799.2	8.3%
April	927.5	4.5%	22,821.2	10.1%
May	943.5	4.5%	22,821.2	11.8%
June	948.5	3.7%	22,878.2	11.6%
July	968.9	3.7%	22,878.2	15.0%
August	977.4	3.5%	22,878.2	13.6%
Sept	996.4	4.5%	22,878.2	12.3%
October	1,004.3	3.4%	22,878.2	8.2%
November	1,008.6	3.7%	22,878.2	7.1%
December	1,013.6	3.5%	22,878.2	7.8%
Year 2020				
January	1,013.4	4.0%	22,880.9	9.0%
February	1,013.7	4.6%	22,880.9	9.1%
March	1,021.2	4.9%	22,882.1	7.9%
April	1,036.0	4.2%	22,900.1	8.2%

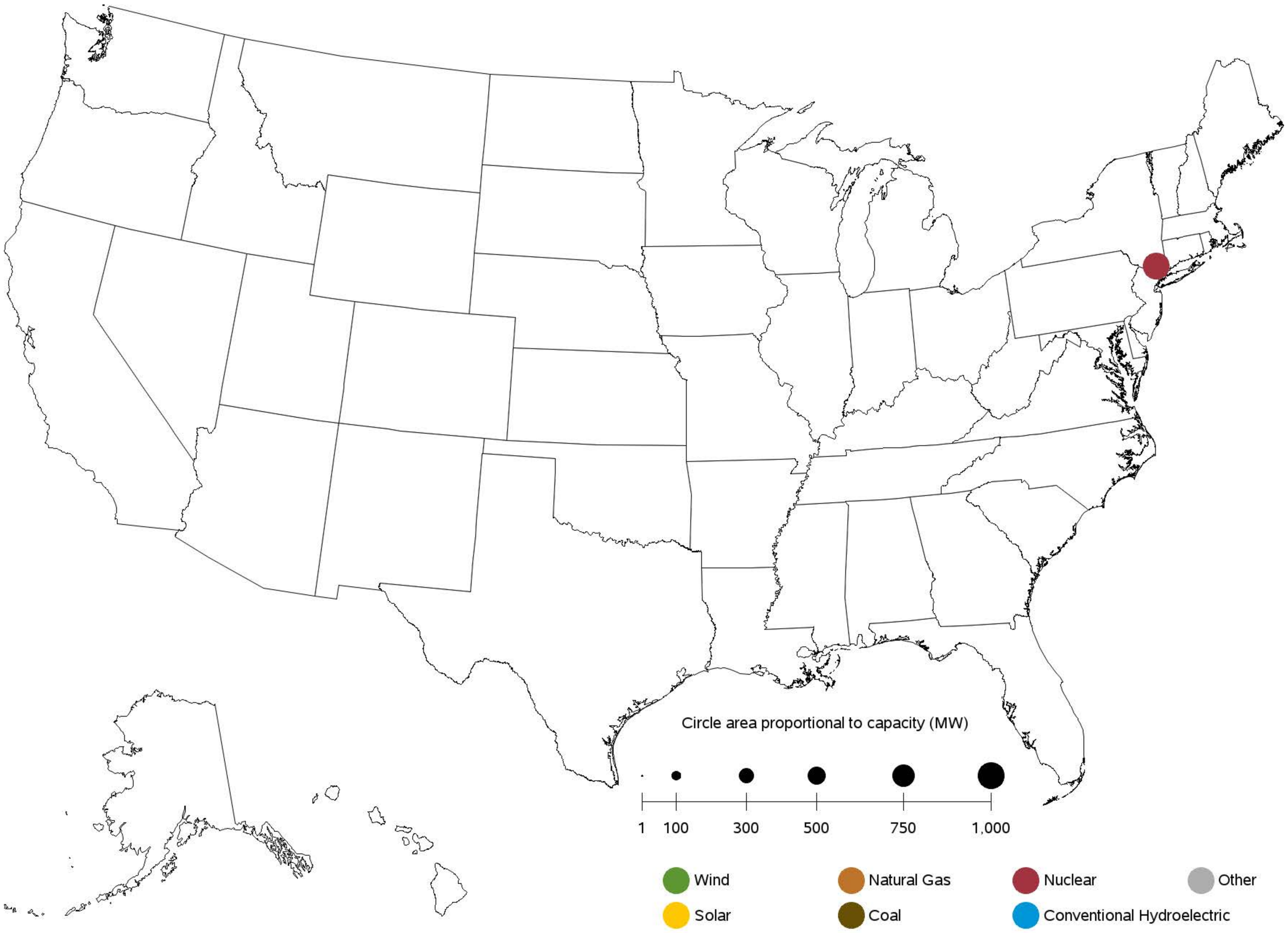
Values for 2018 and prior years are final. Values for 2019 and 2020 are preliminary.
Time adjusted capacity for month rows is the summer capacity of generators in operation for the entire month; units that began operation during the month or that retired during the month are excluded. Time adjusted capacity for year rows is a time weighted average of the month rows.
Usage factors are a comparison of gross generation with available capacity. See the technical note for an explanation of how usage factors are calculated.
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 April 2020



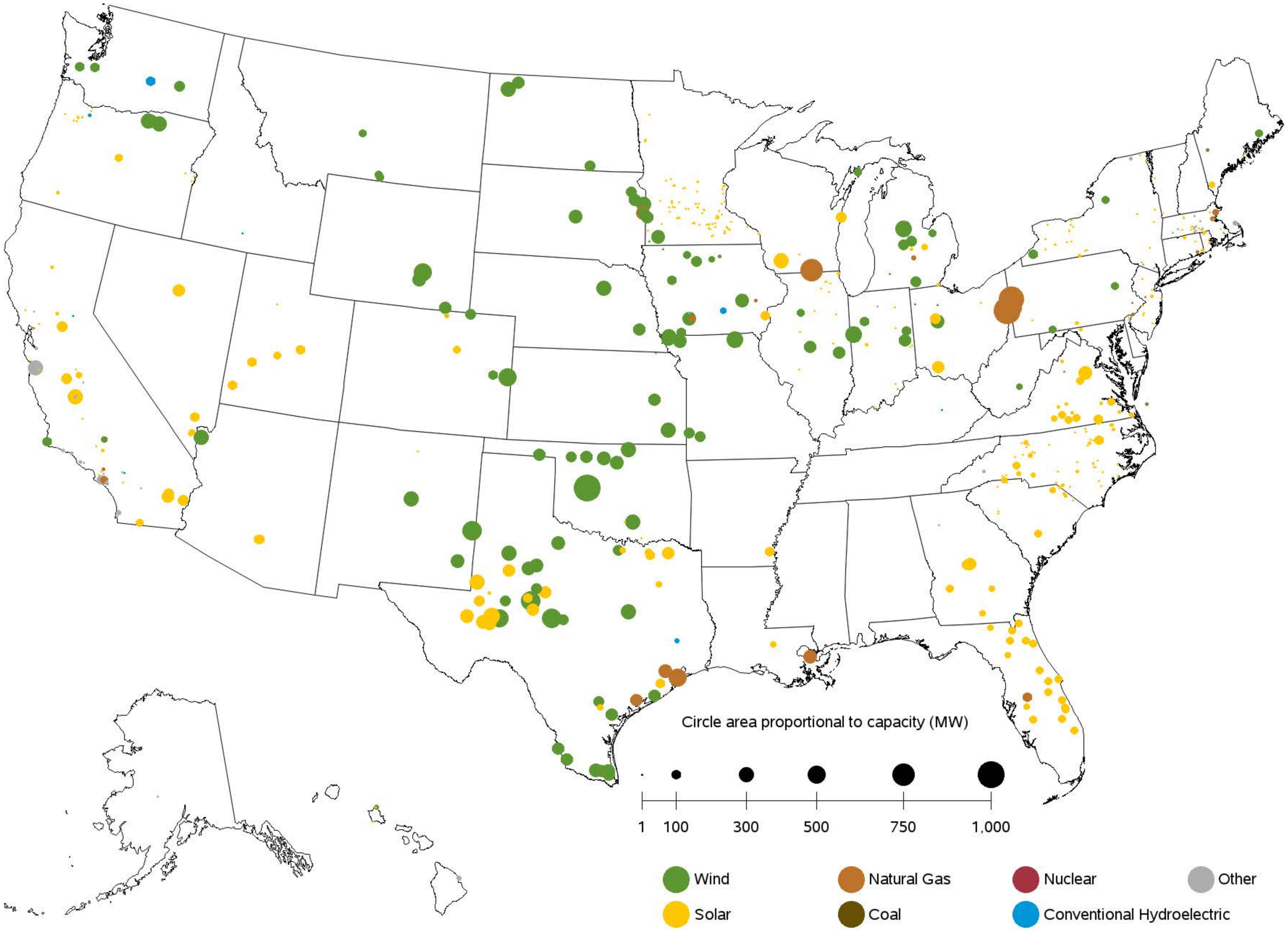
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in April 2020



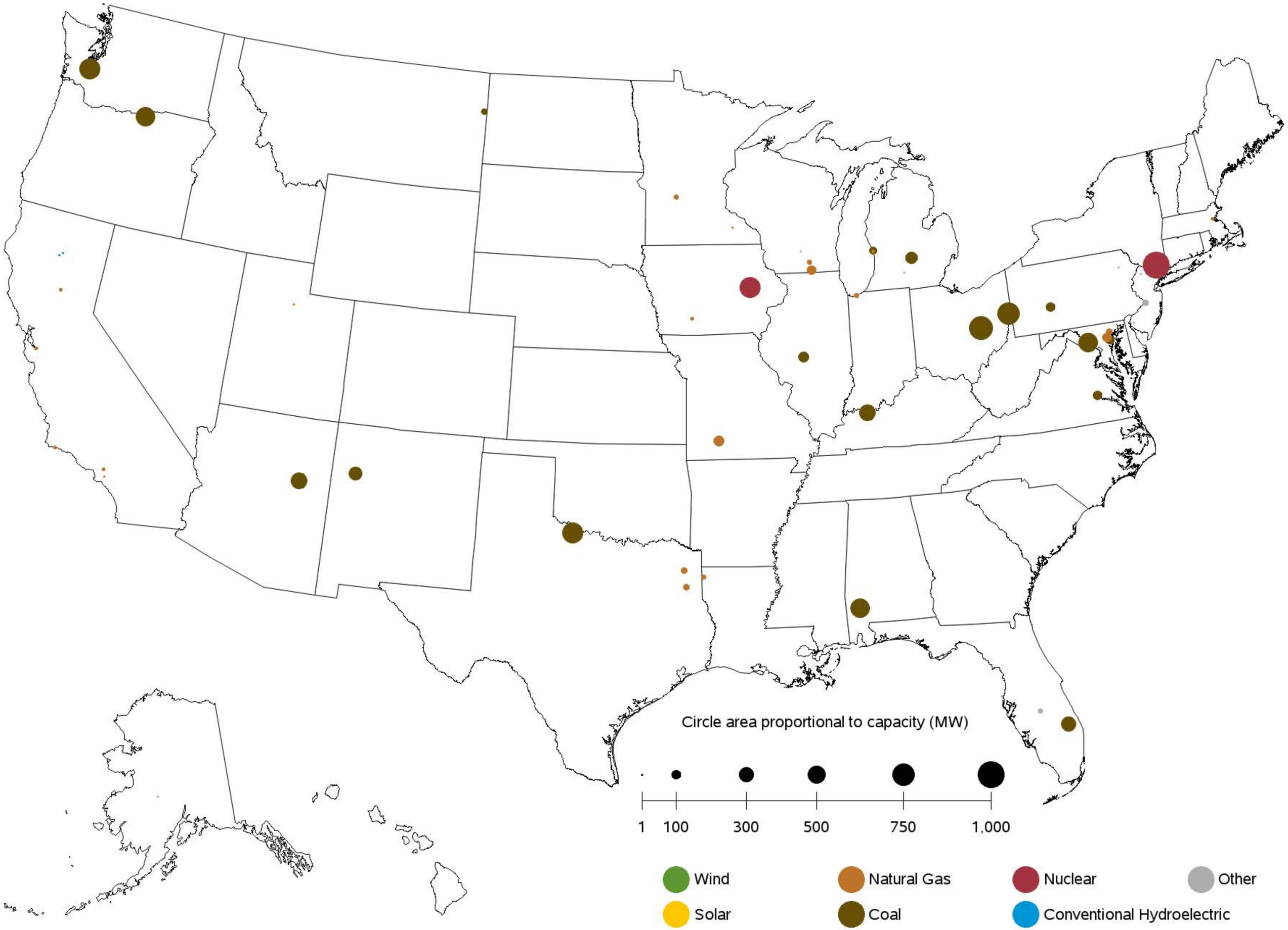
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from May 2020 to April 2021



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 May 2020 to April 2021



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.'

Chapter 7

Imports and Exports

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
2018	51,494,627	7,290,070	6,765,975	6,514,422	58,260,602	13,804,492	44,456,110
2019	52,309,254	13,532,067	6,743,207	6,475,965	59,052,461	20,008,032	39,044,429
Year 2018							
January	4,738,934	680,100	485,831	459,404	5,224,765	1,139,504	4,085,261
February	4,314,276	926,822	473,386	340,682	4,787,662	1,267,504	3,520,158
March	5,045,055	707,032	553,462	488,339	5,598,517	1,195,371	4,403,146
April	4,067,648	1,134,937	461,095	486,681	4,528,743	1,621,618	2,907,125
May	4,865,120	569,954	374,033	571,444	5,239,153	1,141,398	4,097,755
June	5,002,142	534,488	491,763	680,851	5,493,905	1,215,339	4,278,566
July	4,669,081	176,762	701,543	758,502	5,370,624	935,264	4,435,360
August	5,430,607	272,018	705,309	862,128	6,135,916	1,134,146	5,001,770
Sept	3,648,158	437,073	602,500	623,925	4,250,658	1,060,998	3,189,660
October	3,097,802	455,738	620,775	428,265	3,718,577	884,003	2,834,574
November	3,163,062	878,523	649,802	406,045	3,812,864	1,284,568	2,528,296
December	3,452,742	516,623	646,476	408,156	4,099,218	924,779	3,174,439
Year 2019							
January	4,098,844	942,436	705,708	521,104	4,804,552	1,463,540	3,341,012
February	3,777,272	898,202	774,241	519,458	4,551,513	1,417,660	3,133,853
March	4,200,904	1,961,134	748,858	587,848	4,949,762	2,548,982	2,400,780
April	3,880,049	1,558,941	474,744	409,476	4,354,793	1,968,417	2,386,376
May	4,333,483	1,164,351	389,959	517,695	4,723,442	1,682,046	3,041,396
June	4,731,849	905,149	424,419	620,623	5,156,268	1,525,772	3,630,496
July	5,057,622	1,250,152	584,912	707,229	5,642,534	1,957,381	3,685,153
August	5,266,917	1,036,625	597,828	748,206	5,864,745	1,784,831	4,079,914
Sept	4,741,429	1,095,245	551,397	680,604	5,292,826	1,775,849	3,516,977
October	3,179,364	1,041,990	481,831	422,942	3,661,195	1,464,932	2,196,263
November	4,299,127	875,191	540,154	368,755	4,839,281	1,243,946	3,595,335
December	4,742,394	802,651	469,156	372,025	5,211,550	1,174,676	4,036,874
Year 2020							
January	4,227,127	1,275,526	380,376	149,763	4,607,503	1,425,289	3,182,214
February	4,145,482	1,328,868	341,262	326,366	4,486,744	1,655,234	2,831,510
March	4,731,546	898,868	363,374	418,438	5,094,920	1,317,306	3,777,614

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

Chapter 8

Puerto Rico

Table 8.1 Puerto Rico- Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2010 - April 2020 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	5,045	6,820	1,747	0	13,611
2018	6,103	8,203	2,128	0	16,434
Year 2018					
January	389	559	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
June	507	592	208	0	1,308
July	578	681	145	0	1,404
August	577	689	209	0	1,475
Sept	527	722	186	0	1,436
October	698	847	191	0	1,736
November	457	593	172	0	1,222
December	494	642	162	0	1,299
Year 2019					
January	447	573	154	0	1,173
February	367	487	146	0	1,000
March	448	650	180	0	1,279
April	465	681	165	0	1,311
May	512	655	189	0	1,355
June	568	692	171	0	1,431
July	618	687	181	0	1,487
August	594	718	175	0	1,487
Sept	586	712	166	0	1,464
October	587	712	196	0	1,495
November	504	677	162	0	1,343
December	509	655	165	0	1,328
Year 2020					
January	475	601	137	0	1,213
February	373	540	120	0	1,033
March	488	691	184	0	1,364
April	510	476	138	0	1,124
Year to Date					
2018	1,699	2,635	688	0	5,021
2019	1,728	2,390	644	0	4,762
2020	1,846	2,308	580	0	4,734
Rolling 12 Months Ending in April					
2019	6,132	7,959	2,084	0	16,175
2020	6,323	7,817	1,984	0	16,125

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, 2010 - April 2020 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	1,123	1,549	344	0	3,016
2018	1,265	1,893	405	0	3,564
Year 2018					
January	86	159	32	0	277
February	76	171	32	0	279
March	110	149	22	0	281
April	84	161	54	0	300
May	104	165	23	0	292
June	108	133	40	0	281
July	122	166	29	0	317
August	114	149	39	0	302
Sept	109	162	34	0	306
October	137	181	36	0	353
November	102	142	34	0	278
December	112	154	31	0	298
Year 2019					
January	85	134	30	0	249
February	80	109	29	0	218
March	98	156	37	0	291
April	106	177	36	0	319
May	127	132	41	0	299
June	116	156	36	0	308
July	122	140	32	0	294
August	132	174	37	0	343
Sept	113	150	31	0	295
October	126	162	39	0	328
November	107	154	33	0	294
December	118	165	37	0	320
Year 2020					
January	122	180	36	0	338
February	99	161	32	0	292
March	87	143	34	0	264
April	85	79	22	0	186
Year to Date					
2018	356	640	140	0	1,137
2019	370	576	132	0	1,078
2020	394	563	123	0	1,080
Rolling 12 Months Ending in April					
2019	1,279	1,829	397	0	3,505
2020	1,354	1,797	411	0	3,561

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, 2010 - April 2020

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	1,337,756	127,065	618	0	1,465,439
2018	1,346,102	126,527	602	0	1,473,231
Year 2018					
January	1,343,369	126,955	605	0	1,470,929
February	1,342,510	126,695	606	0	1,469,811
March	1,343,914	126,640	607	0	1,471,161
April	1,344,684	126,489	606	0	1,471,779
May	1,344,960	126,396	604	0	1,471,960
June	1,344,798	126,278	604	0	1,471,680
July	1,345,450	126,221	601	0	1,472,272
August	1,346,380	126,283	598	0	1,473,261
Sept	1,347,298	126,375	599	0	1,474,272
October	1,348,855	126,492	597	0	1,475,944
November	1,349,924	126,702	595	0	1,477,221
December	1,351,082	126,800	596	0	1,478,478
Year 2019					
January	1,347,101	126,497	601	0	1,474,199
February	1,348,081	126,423	600	0	1,475,104
March	1,348,854	126,160	602	0	1,475,616
April	1,347,811	125,773	597	0	1,474,181
May	1,346,893	125,615	596	0	1,473,104
June	1,344,899	125,345	595	0	1,470,839
July	1,344,545	125,238	595	0	1,470,378
August	1,343,253	125,095	594	0	1,468,942
Sept	1,342,243	124,954	591	0	1,467,788
October	1,341,718	124,798	590	0	1,467,106
November	1,341,612	124,701	589	0	1,466,902
December	1,341,424	124,911	588	0	1,466,923
Year 2020					
January	1,340,652	124,815	588	0	1,466,055
February	1,340,005	124,751	586	0	1,465,342
March	1,339,508	124,615	584	0	1,464,707
April	1,339,991	124,604	585	0	1,465,180
Rolling 12 Months Ending in April					
2019	1,347,550	126,367	600	0	1,474,516
2020	1,342,229	124,954	590	0	1,467,772

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 8.4 Puerto Rico- Average Price of Electricity to Ultimate Customers: Total by End-Use Sector, 2010 - April 2020 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
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	22.26	22.72	19.70	--	22.16
2018	20.73	23.08	19.04	--	21.68
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	--	25.98
April	18.09	20.56	19.86	--	19.68
May	18.38	20.61	13.77	--	19.05
June	21.24	22.46	19.23	--	21.47
July	21.17	24.32	19.78	--	22.56
August	19.81	21.63	18.51	--	20.48
Sept	20.75	22.50	18.18	--	21.30
October	19.59	21.36	18.69	--	20.35
November	22.31	24.00	19.55	--	22.74
December	22.77	24.05	19.33	--	22.97
Year 2019					
January	19.07	23.38	19.78	--	21.26
February	21.85	22.35	20.14	--	21.84
March	21.84	24.03	20.33	--	22.74
April	22.89	25.94	21.91	--	24.35
May	24.71	20.19	21.60	--	22.09
June	20.37	22.61	21.26	--	21.56
July	19.72	20.39	17.90	--	19.80
August	22.22	24.21	21.16	--	23.06
Sept	19.36	21.02	18.93	--	20.12
October	21.50	22.80	19.96	--	21.92
November	21.15	22.74	20.65	--	21.89
December	23.13	25.19	22.62	--	24.09
Year 2020					
January	25.72	29.96	26.04	--	27.86
February	26.63	29.78	26.48	--	28.26
March	17.80	20.68	18.38	--	19.34
April	16.75	16.58	15.81	--	16.56
Year to Date					
2018	20.97	24.30	20.37	--	22.63
2019	21.41	24.08	20.56	--	22.63
2020	21.33	24.38	21.26	--	22.81
Rolling 12 Months Ending in April					
2019	20.85	22.98	19.07	--	21.67
2020	21.41	22.98	20.72	--	22.09

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-April 2020

Period	Coal	Hydroelectric Conventional	Natural Gas	Other	Petroleum	Solar	Wind	Total
Annual Totals								
2007	454	98	1,346	0	3,049	0	0	4,947
2008	454	98	1,346	0	3,480	0	0	5,378
2009	454	98	1,346	0	3,600	0	0	5,498
2010	454	98	1,346	0	3,600	0	0	5,498
2011	454	98	1,346	0	3,600	5	0	5,503
2012	454	98	1,346	0	3,600	23	98	5,619
2013	454	98	1,346	0	3,600	26	98	5,622
2014	454	98	1,346	0	3,600	38	99	5,635
2015	454	98	1,346	9	3,604	70	99	5,680
2016	454	98	1,346	33	3,604	145	99	5,779
2017	454	98	1,346	35	3,605	145	99	5,782
2018	454	98	1,346	35	3,607	145	99	5,784
2019	454	98	1,346	35	3,607	149	99	5,788
Year 2020								
January	454	98	1,346	33	3,606	145	99	5,780
February	454	98	1,346	33	3,606	155	99	5,790
March	454	98	1,346	33	3,606	155	99	5,790
April	454	98	1,346	33	3,607	155	99	5,791

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.'

Appendices

Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, April 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**32**	**34**	**0**	**3**	**0**	**0**	**7**
Connecticut	0	63	0	1	0	0	21
Maine	32	14	0	7	0	0	9
Massachusetts	0	68	0	8	0	0	15
New Hampshire	0	26	0	0	0	0	17
Rhode Island	0	179	0	15	0	0	0
Vermont	0	79	0	0	0	0	14
Middle Atlantic	**5**	**73**	**0**	**1**	**37**	**0**	**2**
New Jersey	0	95	0	3	0	0	0
New York	0	63	0	3	0	0	1
Pennsylvania	6	167	0	1	55	0	8
East North Central	**1**	**6**	**11**	**1**	**17**	**0**	**12**
Illinois	0	13	0	8	0	0	28
Indiana	0	4	0	3	23	0	35
Michigan	5	11	0	3	0	0	23
Ohio	0	4	16	1	36	0	34
Wisconsin	0	51	0	3	0	0	17
West North Central	**1**	**6**	**0**	**6**	**0**	**0**	**8**
Iowa	0	11	0	7	0	0	32
Kansas	0	3	0	26	0	0	0
Minnesota	9	52	0	10	0	0	26
Missouri	0	3	0	10	0	0	18
Nebraska	4	74	0	55	0	0	24
North Dakota	0	7	0	39	0	0	16
South Dakota	0	117	0	53	0	0	11
South Atlantic	**1**	**9**	**7**	**1**	**0**	**0**	**5**
Delaware	0	141	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	1	6	0	1	0	0	35
Georgia	4	50	43	4	0	0	9
Maryland	0	27	0	1	0	0	1
North Carolina	0	37	0	4	0	0	7
South Carolina	0	9	0	2	0	0	11
Virginia	0	31	0	2	0	0	13
West Virginia	2	0	0	4	0	0	12
East South Central	**0**	**6**	**0**	**2**	**105**	**0**	**3**
Alabama	1	64	0	3	892	0	4
Kentucky	0	0	0	4	0	0	8
Mississippi	0	3	0	2	0	0	0
Tennessee	0	4	0	4	0	0	5
West South Central	**0**	**3**	**0**	**1**	**9**	**0**	**7**
Arkansas	0	0	0	11	0	0	10
Louisiana	0	478	0	2	17	0	15
Oklahoma	0	82	0	4	0	0	12
Texas	0	8	0	2	5	0	17
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**4**
Arizona	0	4	0	1	0	0	4
Colorado	0	66	0	2	0	0	19
Idaho	121	0	0	32	0	0	9
Montana	4	302	0	51	0	0	9
Nevada	0	0	0	1	0	0	2
New Mexico	0	15	0	4	0	0	57
Utah	0	1	0	4	0	0	28
Wyoming	3	1	0	8	0	0	27
Pacific Contiguous	**0**	**45**	**0**	**2**	**2**	**0**	**2**
California	0	17	0	1	2	0	8
Oregon	0	0	0	5	0	0	4
Washington	0	157	0	6	0	0	1
Pacific Noncontiguous	**10**	**1**	**0**	**29**	**0**	**0**	**20**
Alaska	29	3	0	29	0	0	21
Hawaii	0	1	0	0	0	0	25
U.S. Total	**0**	**2**	**3**	**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, April 2020 (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**	**6**	**4**	**0**	**0**	**2**
Connecticut	0	0	0	15	11	0	0	1
Maine	0	0	0	65	5	0	0	4
Massachusetts	0	0	0	6	5	0	1	5
New Hampshire	0	0	0	0	16	0	0	5
Rhode Island	0	0	0	26	9	0	0	13
Vermont	0	0	0	17	12	0	0	10
Middle Atlantic	**0**	**0**	**0**	**5**	**2**	**0**	**1**	**1**
New Jersey	0	0	0	6	5	0	0	1
New York	0	0	0	9	3	0	1	1
Pennsylvania	0	0	0	21	3	0	3	1
East North Central	**0**	**0**	**0**	**6**	**2**	**0**	**2**	**0**
Illinois	0	0	0	21	2	0	0	1
Indiana	0	0	0	12	3	0	0	1
Michigan	0	0	0	16	4	0	12	1
Ohio	0	0	0	7	3	0	0	1
Wisconsin	0	0	0	29	5	0	34	1
West North Central	**0**	**0**	**0**	**5**	**1**	**0**	**4**	**1**
Iowa	0	0	0	52	1	0	0	1
Kansas	0	0	0	17	2	0	0	2
Minnesota	0	0	0	6	3	0	3	2
Missouri	0	0	0	21	3	0	0	1
Nebraska	0	0	0	35	2	0	0	2
North Dakota	0	0	0	0	2	0	24	2
South Dakota	0	0	0	163	3	0	0	5
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Delaware	0	0	0	30	27	0	0	1
District of Columbia	0	0	0	67	15	0	0	15
Florida	0	0	0	1	2	0	0	1
Georgia	0	0	0	2	3	0	0	2
Maryland	0	0	0	9	6	0	0	0
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	4	3	0	0	1
Virginia	0	0	0	5	5	0	0	1
West Virginia	0	0	0	0	5	0	0	2
East South Central	**0**	**0**	**0**	**4**	**3**	**0**	**0**	**1**
Alabama	0	0	0	9	4	0	0	1
Kentucky	0	0	0	26	15	0	0	1
Mississippi	0	0	0	3	4	0	0	2
Tennessee	0	0	0	11	7	0	0	1
West South Central	**0**	**0**	**0**	**2**	**1**	**0**	**2**	**1**
Arkansas	0	0	0	5	7	0	0	4
Louisiana	0	0	0	171	7	0	0	2
Oklahoma	0	0	0	31	2	0	0	2
Texas	0	0	0	2	1	0	5	1
Mountain	**0**	**20**	**0**	**1**	**2**	**0**	**2**	**1**
Arizona	0	0	0	2	3	0	0	0
Colorado	0	0	0	5	3	0	0	1
Idaho	0	124	0	7	5	0	0	7
Montana	0	0	0	38	5	0	0	4
Nevada	0	20	0	2	9	0	0	3
New Mexico	0	0	0	6	3	0	0	2
Utah	0	60	0	4	9	0	10	2
Wyoming	0	0	0	0	5	0	0	3
Pacific Contiguous	**0**	**9**	**0**	**1**	**2**	**0**	**1**	**1**
California	0	9	0	1	2	0	2	1
Oregon	0	93	0	7	3	0	0	2
Washington	0	0	0	44	3	0	0	1
Pacific Noncontiguous	**0**	**60**	**0**	**8**	**11**	**0**	**0**	**6**
Alaska	0	0	0	0	18	0	0	15
Hawaii	0	60	0	8	12	0	0	2
U.S. Total	**0**	**11**	**0**	**1**	**1**	**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.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, Year-to-Date through April 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**32**	**34**	**0**	**3**	**0**	**0**	**7**
Connecticut	0	63	0	1	0	0	21
Maine	32	14	0	7	0	0	9
Massachusetts	0	68	0	8	0	0	15
New Hampshire	0	26	0	0	0	0	17
Rhode Island	0	179	0	15	0	0	0
Vermont	0	79	0	0	0	0	14
Middle Atlantic	**5**	**73**	**0**	**1**	**37**	**0**	**2**
New Jersey	0	95	0	3	0	0	0
New York	0	63	0	3	0	0	1
Pennsylvania	6	167	0	1	55	0	8
East North Central	**1**	**6**	**11**	**1**	**17**	**0**	**12**
Illinois	0	13	0	8	0	0	28
Indiana	0	4	0	3	23	0	35
Michigan	5	11	0	3	0	0	23
Ohio	0	4	16	1	36	0	34
Wisconsin	0	51	0	3	0	0	17
West North Central	**1**	**6**	**0**	**6**	**0**	**0**	**8**
Iowa	0	11	0	7	0	0	32
Kansas	0	3	0	26	0	0	0
Minnesota	9	52	0	10	0	0	26
Missouri	0	3	0	10	0	0	18
Nebraska	4	74	0	55	0	0	24
North Dakota	0	7	0	39	0	0	16
South Dakota	0	117	0	53	0	0	11
South Atlantic	**1**	**9**	**7**	**1**	**0**	**0**	**5**
Delaware	0	141	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	1	6	0	1	0	0	35
Georgia	4	50	43	4	0	0	9
Maryland	0	27	0	1	0	0	1
North Carolina	0	37	0	4	0	0	7
South Carolina	0	9	0	2	0	0	11
Virginia	0	31	0	2	0	0	13
West Virginia	2	0	0	4	0	0	12
East South Central	**0**	**6**	**0**	**2**	**105**	**0**	**3**
Alabama	1	64	0	3	892	0	4
Kentucky	0	0	0	4	0	0	8
Mississippi	0	3	0	2	0	0	0
Tennessee	0	4	0	4	0	0	5
West South Central	**0**	**3**	**0**	**1**	**9**	**0**	**7**
Arkansas	0	0	0	11	0	0	10
Louisiana	0	478	0	2	17	0	15
Oklahoma	0	82	0	4	0	0	12
Texas	0	8	0	2	5	0	17
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**4**
Arizona	0	4	0	1	0	0	4
Colorado	0	66	0	2	0	0	19
Idaho	121	0	0	32	0	0	9
Montana	4	302	0	51	0	0	9
Nevada	0	0	0	1	0	0	2
New Mexico	0	15	0	4	0	0	57
Utah	0	1	0	4	0	0	28
Wyoming	3	1	0	8	0	0	27
Pacific Contiguous	**0**	**45**	**0**	**2**	**2**	**0**	**2**
California	0	17	0	1	2	0	8
Oregon	0	0	0	5	0	0	4
Washington	0	157	0	6	0	0	1
Pacific Noncontiguous	**10**	**1**	**0**	**29**	**0**	**0**	**20**
Alaska	29	3	0	29	0	0	21
Hawaii	0	1	0	0	0	0	25
U.S. Total	**0**	**2**	**3**	**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 April 2020 (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**	**6**	**4**	**0**	**0**	**2**
Connecticut	0	0	0	15	11	0	0	1
Maine	0	0	0	65	5	0	0	4
Massachusetts	0	0	0	6	5	0	1	5
New Hampshire	0	0	0	0	16	0	0	5
Rhode Island	0	0	0	26	9	0	0	13
Vermont	0	0	0	17	12	0	0	10
Middle Atlantic	**0**	**0**	**0**	**5**	**2**	**0**	**1**	**1**
New Jersey	0	0	0	6	5	0	0	1
New York	0	0	0	9	3	0	1	1
Pennsylvania	0	0	0	21	3	0	3	1
East North Central	**0**	**0**	**0**	**6**	**2**	**0**	**2**	**0**
Illinois	0	0	0	21	2	0	0	1
Indiana	0	0	0	12	3	0	0	1
Michigan	0	0	0	16	4	0	12	1
Ohio	0	0	0	7	3	0	0	1
Wisconsin	0	0	0	29	5	0	34	1
West North Central	**0**	**0**	**0**	**5**	**1**	**0**	**4**	**1**
Iowa	0	0	0	52	1	0	0	1
Kansas	0	0	0	17	2	0	0	2
Minnesota	0	0	0	6	3	0	3	2
Missouri	0	0	0	21	3	0	0	1
Nebraska	0	0	0	35	2	0	0	2
North Dakota	0	0	0	0	2	0	24	2
South Dakota	0	0	0	163	3	0	0	5
South Atlantic	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Delaware	0	0	0	30	27	0	0	1
District of Columbia	0	0	0	67	15	0	0	15
Florida	0	0	0	1	2	0	0	1
Georgia	0	0	0	2	3	0	0	2
Maryland	0	0	0	9	6	0	0	0
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	4	3	0	0	1
Virginia	0	0	0	5	5	0	0	1
West Virginia	0	0	0	0	5	0	0	2
East South Central	**0**	**0**	**0**	**4**	**3**	**0**	**0**	**1**
Alabama	0	0	0	9	4	0	0	1
Kentucky	0	0	0	26	15	0	0	1
Mississippi	0	0	0	3	4	0	0	2
Tennessee	0	0	0	11	7	0	0	1
West South Central	**0**	**0**	**0**	**2**	**1**	**0**	**2**	**1**
Arkansas	0	0	0	5	7	0	0	4
Louisiana	0	0	0	171	7	0	0	2
Oklahoma	0	0	0	31	2	0	0	2
Texas	0	0	0	2	1	0	5	1
Mountain	**0**	**20**	**0**	**1**	**2**	**0**	**2**	**1**
Arizona	0	0	0	2	3	0	0	0
Colorado	0	0	0	5	3	0	0	1
Idaho	0	124	0	7	5	0	0	7
Montana	0	0	0	38	5	0	0	4
Nevada	0	20	0	2	9	0	0	3
New Mexico	0	0	0	6	3	0	0	2
Utah	0	60	0	4	9	0	10	2
Wyoming	0	0	0	0	5	0	0	3
Pacific Contiguous	**0**	**9**	**0**	**1**	**2**	**0**	**1**	**1**
California	0	9	0	1	2	0	2	1
Oregon	0	93	0	7	3	0	0	2
Washington	0	0	0	44	3	0	0	1
Pacific Noncontiguous	**0**	**60**	**0**	**8**	**11**	**0**	**0**	**6**
Alaska	0	0	0	0	18	0	0	15
Hawaii	0	60	0	8	12	0	0	2
U.S. Total	**0**	**11**	**0**	**1**	**1**	**0**	**0**	**0**

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Table A.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, April 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**1**	**.**	**0**
Connecticut	0	0	0	.	0
Maine	1	2	0	.	1
Massachusetts	0	0	2	.	0
New Hampshire	1	0	0	.	0
Rhode Island	0	0	0	.	0
Vermont	2	8	67	.	4
Middle Atlantic	**0**	**1**	**2**	**.**	**0**
New Jersey	0	1	2	.	0
New York	0	0	1	.	0
Pennsylvania	1	3	1	.	1
East North Central	**5**	**3**	**8**	**.**	**3**
Illinois	7	5	0	.	4
Indiana	14	3	0	.	6
Michigan	8	18	97	.	8
Ohio	12	3	9	.	5
Wisconsin	22	16	13	.	13
West North Central	**1**	**1**	**2**	**.**	**1**
Iowa	2	2	9	.	2
Kansas	5	5	0	.	4
Minnesota	2	5	2	.	2
Missouri	1	1	2	.	1
Nebraska	6	26	10	.	7
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	**2**	**1**	**1**	**.**	**1**
Delaware	8	3	16	.	5
District of Columbia	0	0	0	.	0
Florida	4	5	1	.	4
Georgia	206	37	0	.	121
Maryland	2	1	2	.	1
North Carolina	8	3	0	.	6
South Carolina	6	5	0	.	5
Virginia	12	4	4	.	8
West Virginia	0	0	0	.	0
East South Central	**9**	**5**	**0**	**.**	**7**
Alabama	0	0	0	.	0
Kentucky	10	6	0	.	8
Mississippi	22	13	0	.	13
Tennessee	0	0	0	.	0
West South Central	**3**	**6**	**7**	**.**	**3**
Arkansas	17	18	0	.	12
Louisiana	4	10	0	.	4
Oklahoma	23	18	0	.	17
Texas	5	8	66	.	4
Mountain	**0**	**0**	**1**	**.**	**0**
Arizona	0	0	0	.	0
Colorado	2	1	26	.	2
Idaho	2	2	0	.	2
Montana	10	3	0	.	7
Nevada	0	0	0	.	0
New Mexico	3	1	47	.	2
Utah	1	1	0	.	1
Wyoming	14	12	0	.	11
Pacific Contiguous	**0**	**0**	**0**	**.**	**0**
California	0	0	0	.	0
Oregon	1	1	6	.	1
Washington	2	3	24	.	1
Pacific Noncontiguous	**0**	**0**	**0**	**.**	**0**
Alaska	2	3	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, April 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**67**	**0**	**76**	**0**	**0**	**15**
Connecticut	0	19	0	0	0	0	19
Maine	0	0	0	0	0	0	252
Massachusetts	0	136	0	16,001	0	0	32
New Hampshire	0	993	0	0	0	0	26
Rhode Island	0	0	0	0	0	0	0
Vermont	0	79	0	0	0	0	23
Middle Atlantic	**0**	**116**	**0**	**6**	**0**	**0**	**1**
New Jersey	0	0	0	185	0	0	0
New York	0	116	0	6	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**10**	**0**	**3**	**0**	**0**	**13**
Illinois	0	50	0	0	0	0	42
Indiana	0	4	0	6	0	0	35
Michigan	5	11	0	10	0	0	24
Ohio	0	18	0	3	0	0	34
Wisconsin	0	52	0	3	0	0	19
West North Central	**1**	**6**	**0**	**7**	**0**	**0**	**8**
Iowa	0	12	0	8	0	0	32
Kansas	0	3	0	29	0	0	0
Minnesota	9	53	0	10	0	0	34
Missouri	0	3	0	16	0	0	18
Nebraska	4	74	0	55	0	0	24
North Dakota	0	7	0	40	0	0	16
South Dakota	0	117	0	53	0	0	11
South Atlantic	**0**	**9**	**0**	**1**	**0**	**0**	**6**
Delaware	0	0	0	0	0	0	0
Florida	0	2	0	1	0	0	35
Georgia	0	26	0	4	0	0	9
Maryland	0	131	0	0	0	0	0
North Carolina	0	41	0	4	0	0	7
South Carolina	0	10	0	2	0	0	11
Virginia	0	81	0	3	0	0	13
West Virginia	0	0	0	0	0	0	20
East South Central	**0**	**2**	**0**	**2**	**0**	**0**	**3**
Alabama	0	0	0	8	0	0	4
Kentucky	0	0	0	4	0	0	8
Mississippi	0	6	0	2	0	0	0
Tennessee	0	5	0	5	0	0	5
West South Central	**0**	**5**	**0**	**3**	**0**	**0**	**8**
Arkansas	0	0	0	13	0	0	10
Louisiana	0	478	0	3	0	0	0
Oklahoma	0	375	0	6	0	0	12
Texas	0	10	0	6	0	0	17
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**4**
Arizona	0	4	0	1	0	0	4
Colorado	0	66	0	1	0	0	21
Idaho	0	0	0	171	0	0	9
Montana	0	367	0	55	0	0	9
Nevada	0	0	0	1	0	0	0
New Mexico	0	15	0	5	0	0	57
Utah	0	1	0	4	0	0	28
Wyoming	3	1	0	11	0	0	27
Pacific Contiguous	**0**	**19**	**0**	**4**	**0**	**0**	**2**
California	0	18	0	3	0	0	7
Oregon	0	0	0	10	0	0	4
Washington	0	447	0	8	0	0	1
Pacific Noncontiguous	**45**	**1**	**0**	**29**	**0**	**0**	**22**
Alaska	45	3	0	29	0	0	22
Hawaii	0	2	0	0	0	0	0
U.S. Total	**0**	**1**	**0**	**1**	**0**	**0**	**2**

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

Electric Utilities by Census Division and State, April 2020 (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**	**19**	**12**	**0**	**0**	**11**
Connecticut	0	0	0	0	0	0	0	10
Maine	0	0	0	0	0	0	0	252
Massachusetts	0	0	0	25	20	0	0	21
New Hampshire	0	0	0	0	0	0	0	26
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	30	14	0	0	15
Middle Atlantic	**0**	**0**	**0**	**24**	**24**	**0**	**0**	**2**
New Jersey	0	0	0	24	24	0	0	34
New York	0	0	0	0	0	0	0	1
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**13**	**5**	**0**	**19**	**1**
Illinois	0	0	0	47	32	0	0	2
Indiana	0	0	0	17	16	0	0	2
Michigan	0	0	0	15	5	0	0	2
Ohio	0	0	0	80	56	0	0	3
Wisconsin	0	0	0	0	11	0	20	2
West North Central	**0**	**0**	**0**	**43**	**1**	**0**	**6**	**1**
Iowa	0	0	0	76	1	0	0	1
Kansas	0	0	0	163	9	0	0	2
Minnesota	0	0	0	123	5	0	0	3
Missouri	0	0	0	0	69	0	0	1
Nebraska	0	0	0	100	19	0	0	3
North Dakota	0	0	0	0	4	0	24	2
South Dakota	0	0	0	0	10	0	0	8
South Atlantic	**0**	**0**	**0**	**1**	**2**	**0**	**0**	**0**
Delaware	0	0	0	86	86	0	0	80
Florida	0	0	0	0	1	0	0	1
Georgia	0	0	0	9	9	0	0	2
Maryland	0	0	0	75	75	0	0	0
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	90	12	0	0	1
Virginia	0	0	0	7	12	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**23**	**25**	**0**	**0**	**1**
Alabama	0	0	0	40	40	0	0	2
Kentucky	0	0	0	26	31	0	0	1
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	154	154	0	0	1
West South Central	**0**	**0**	**0**	**27**	**10**	**0**	**0**	**2**
Arkansas	0	0	0	174	174	0	0	4
Louisiana	0	0	0	171	171	0	0	2
Oklahoma	0	0	0	31	10	0	0	5
Texas	0	0	0	61	35	0	0	4
Mountain	**0**	**79**	**0**	**6**	**4**	**0**	**16**	**1**
Arizona	0	0	0	8	8	0	0	0
Colorado	0	0	0	85	5	0	0	1
Idaho	0	0	0	0	21	0	0	9
Montana	0	0	0	0	18	0	0	8
Nevada	0	0	0	7	7	0	0	1
New Mexico	0	0	0	13	13	0	0	2
Utah	0	79	0	0	79	0	25	2
Wyoming	0	0	0	0	6	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**10**	**3**	**0**	**0**	**1**
California	0	0	0	10	5	0	0	3
Oregon	0	0	0	88	3	0	0	4
Washington	0	0	0	0	4	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**23**	**16**	**0**	**0**	**9**
Alaska	0	0	0	0	27	0	0	16
Hawaii	0	0	0	23	17	0	0	2
U.S. Total	**0**	**20**	**0**	**1**	**1**	**0**	**4**	**0**

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

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

Electric Utilities by Census Division and State, Year-to-Date through April 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**67**	**0**	**76**	**0**	**0**	**15**
Connecticut	0	19	0	0	0	0	19
Maine	0	0	0	0	0	0	252
Massachusetts	0	136	0	16,001	0	0	32
New Hampshire	0	993	0	0	0	0	26
Rhode Island	0	0	0	0	0	0	0
Vermont	0	79	0	0	0	0	23
Middle Atlantic	**0**	**116**	**0**	**6**	**0**	**0**	**1**
New Jersey	0	0	0	185	0	0	0
New York	0	116	0	6	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	**1**	**10**	**0**	**3**	**0**	**0**	**13**
Illinois	0	50	0	0	0	0	42
Indiana	0	4	0	6	0	0	35
Michigan	5	11	0	10	0	0	24
Ohio	0	18	0	3	0	0	34
Wisconsin	0	52	0	3	0	0	19
West North Central	**1**	**6**	**0**	**7**	**0**	**0**	**8**
Iowa	0	12	0	8	0	0	32
Kansas	0	3	0	29	0	0	0
Minnesota	9	53	0	10	0	0	34
Missouri	0	3	0	16	0	0	18
Nebraska	4	74	0	55	0	0	24
North Dakota	0	7	0	40	0	0	16
South Dakota	0	117	0	53	0	0	11
South Atlantic	**0**	**9**	**0**	**1**	**0**	**0**	**6**
Delaware	0	0	0	0	0	0	0
Florida	0	2	0	1	0	0	35
Georgia	0	26	0	4	0	0	9
Maryland	0	131	0	0	0	0	0
North Carolina	0	41	0	4	0	0	7
South Carolina	0	10	0	2	0	0	11
Virginia	0	81	0	3	0	0	13
West Virginia	0	0	0	0	0	0	20
East South Central	**0**	**2**	**0**	**2**	**0**	**0**	**3**
Alabama	0	0	0	8	0	0	4
Kentucky	0	0	0	4	0	0	8
Mississippi	0	6	0	2	0	0	0
Tennessee	0	5	0	5	0	0	5
West South Central	**0**	**5**	**0**	**3**	**0**	**0**	**8**
Arkansas	0	0	0	13	0	0	10
Louisiana	0	478	0	3	0	0	0
Oklahoma	0	375	0	6	0	0	12
Texas	0	10	0	6	0	0	17
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**4**
Arizona	0	4	0	1	0	0	4
Colorado	0	66	0	1	0	0	21
Idaho	0	0	0	171	0	0	9
Montana	0	367	0	55	0	0	9
Nevada	0	0	0	1	0	0	0
New Mexico	0	15	0	5	0	0	57
Utah	0	1	0	4	0	0	28
Wyoming	3	1	0	11	0	0	27
Pacific Contiguous	**0**	**19**	**0**	**4**	**0**	**0**	**2**
California	0	18	0	3	0	0	7
Oregon	0	0	0	10	0	0	4
Washington	0	447	0	8	0	0	1
Pacific Noncontiguous	**45**	**1**	**0**	**29**	**0**	**0**	**22**
Alaska	45	3	0	29	0	0	22
Hawaii	0	2	0	0	0	0	0
U.S. Total	**0**	**1**	**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 April 2020 (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**	**19**	**12**	**0**	**0**	**11**
Connecticut	0	0	0	0	0	0	0	10
Maine	0	0	0	0	0	0	0	252
Massachusetts	0	0	0	25	20	0	0	21
New Hampshire	0	0	0	0	0	0	0	26
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	30	14	0	0	15
Middle Atlantic	**0**	**0**	**0**	**24**	**24**	**0**	**0**	**2**
New Jersey	0	0	0	24	24	0	0	34
New York	0	0	0	0	0	0	0	1
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	**0**	**0**	**0**	**13**	**5**	**0**	**19**	**1**
Illinois	0	0	0	47	32	0	0	2
Indiana	0	0	0	17	16	0	0	2
Michigan	0	0	0	15	5	0	0	2
Ohio	0	0	0	80	56	0	0	3
Wisconsin	0	0	0	0	11	0	20	2
West North Central	**0**	**0**	**0**	**43**	**1**	**0**	**6**	**1**
Iowa	0	0	0	76	1	0	0	1
Kansas	0	0	0	163	9	0	0	2
Minnesota	0	0	0	123	5	0	0	3
Missouri	0	0	0	0	69	0	0	1
Nebraska	0	0	0	100	19	0	0	3
North Dakota	0	0	0	0	4	0	24	2
South Dakota	0	0	0	0	10	0	0	8
South Atlantic	**0**	**0**	**0**	**1**	**2**	**0**	**0**	**0**
Delaware	0	0	0	86	86	0	0	80
Florida	0	0	0	0	1	0	0	1
Georgia	0	0	0	9	9	0	0	2
Maryland	0	0	0	75	75	0	0	0
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	90	12	0	0	1
Virginia	0	0	0	7	12	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**23**	**25**	**0**	**0**	**1**
Alabama	0	0	0	40	40	0	0	2
Kentucky	0	0	0	26	31	0	0	1
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	154	154	0	0	1
West South Central	**0**	**0**	**0**	**27**	**10**	**0**	**0**	**2**
Arkansas	0	0	0	174	174	0	0	4
Louisiana	0	0	0	171	171	0	0	2
Oklahoma	0	0	0	31	10	0	0	5
Texas	0	0	0	61	35	0	0	4
Mountain	**0**	**79**	**0**	**6**	**4**	**0**	**16**	**1**
Arizona	0	0	0	8	8	0	0	0
Colorado	0	0	0	85	5	0	0	1
Idaho	0	0	0	0	21	0	0	9
Montana	0	0	0	0	18	0	0	8
Nevada	0	0	0	7	7	0	0	1
New Mexico	0	0	0	13	13	0	0	2
Utah	0	79	0	0	79	0	25	2
Wyoming	0	0	0	0	6	0	0	3
Pacific Contiguous	**0**	**0**	**0**	**10**	**3**	**0**	**0**	**1**
California	0	0	0	10	5	0	0	3
Oregon	0	0	0	88	3	0	0	4
Washington	0	0	0	0	4	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**23**	**16**	**0**	**0**	**9**
Alaska	0	0	0	0	27	0	0	16
Hawaii	0	0	0	23	17	0	0	2
U.S. Total	**0**	**20**	**0**	**1**	**1**	**0**	**4**	**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, April 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**56**	**0**	**3**	**0**	**0**	**8**
Connecticut	0	90	0	0	0	0	23
Maine	0	3	0	0	0	0	10
Massachusetts	0	105	0	8	0	0	17
New Hampshire	0	1,448	0	0	0	0	19
Rhode Island	0	179	0	15	0	0	0
Vermont	0	0	0	0	0	0	17
Middle Atlantic	**5**	**94**	**0**	**1**	**0**	**0**	**7**
New Jersey	0	97	0	3	0	0	0
New York	0	89	0	4	0	0	8
Pennsylvania	6	192	0	1	0	0	8
East North Central	**0**	**4**	**16**	**2**	**49**	**0**	**37**
Illinois	0	5	0	10	0	0	38
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	78
Ohio	0	4	16	1	49	0	130
Wisconsin	0	0	0	2	0	0	81
West North Central	**0**	**118**	**0**	**10**	**0**	**0**	**47**
Iowa	0	64	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	180	0	34	0	0	59
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**32**	**32**	**0**	**2**	**0**	**0**	**4**
Delaware	0	141	0	0	0	0	0
Florida	0	18	0	8	0	0	0
Georgia	0	207	0	6	0	0	136
Maryland	0	27	0	1	0	0	1
North Carolina	0	89	0	9	0	0	52
South Carolina	0	0	0	51	0	0	56
Virginia	0	24	0	2	0	0	53
West Virginia	124	0	0	5	0	0	23
East South Central	**0**	**90**	**0**	**0**	**0**	**0**	**157**
Alabama	0	138	0	0	0	0	0
Kentucky	0	0	0	0	0	0	157
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**2**	**0**	**2**	**0**	**0**	**14**
Arkansas	0	0	0	0	0	0	58
Louisiana	0	0	0	9	0	0	15
Oklahoma	0	0	0	0	0	0	0
Texas	0	9	0	2	0	0	0
Mountain	**4**	**71**	**0**	**4**	**0**	**0**	**23**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	9	0	0	53
Idaho	0	0	0	35	0	0	30
Montana	4	486	0	74	0	0	75
Nevada	0	0	0	0	0	0	57
New Mexico	0	0	0	4	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**51**	**0**	**1**	**0**	**0**	**31**
California	0	0	0	2	0	0	40
Oregon	0	0	0	0	0	0	54
Washington	0	86	0	9	0	0	44
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	37	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**6**	**11**	**1**	**13**	**0**	**5**

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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, April 2020 (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**	**6**	**4**	**0**	**1**	**2**
Connecticut	0	0	0	16	11	0	0	0
Maine	0	0	0	65	5	0	0	5
Massachusetts	0	0	0	7	5	0	1	5
New Hampshire	0	0	0	0	16	0	0	5
Rhode Island	0	0	0	26	9	0	0	14
Vermont	0	0	0	21	16	0	0	12
Middle Atlantic	**0**	**0**	**0**	**5**	**2**	**0**	**0**	**1**
New Jersey	0	0	0	7	5	0	0	1
New York	0	0	0	9	3	0	0	1
Pennsylvania	0	0	0	22	3	0	0	1
East North Central	**0**	**0**	**0**	**7**	**1**	**0**	**14**	**0**
Illinois	0	0	0	22	2	0	0	1
Indiana	0	0	0	16	3	0	0	1
Michigan	0	0	0	31	5	0	21	1
Ohio	0	0	0	7	3	0	0	0
Wisconsin	0	0	0	31	7	0	0	1
West North Central	**0**	**0**	**0**	**5**	**1**	**0**	**0**	**1**
Iowa	0	0	0	70	3	0	0	2
Kansas	0	0	0	17	2	0	0	2
Minnesota	0	0	0	6	3	0	0	3
Missouri	0	0	0	23	3	0	0	2
Nebraska	0	0	0	35	2	0	0	2
North Dakota	0	0	0	0	2	0	0	2
South Dakota	0	0	0	163	3	0	0	3
South Atlantic	**0**	**0**	**0**	**2**	**1**	**0**	**0**	**1**
Delaware	0	0	0	32	32	0	0	1
District of Columbia	0	0	0	67	67	0	0	67
Florida	0	0	0	6	4	0	1	4
Georgia	0	0	0	3	3	0	0	5
Maryland	0	0	0	9	6	0	0	0
North Carolina	0	0	0	2	2	0	0	4
South Carolina	0	0	0	4	7	0	0	9
Virginia	0	0	0	7	8	0	0	2
West Virginia	0	0	0	0	5	0	0	14
East South Central	**0**	**0**	**0**	**4**	**5**	**0**	**0**	**0**
Alabama	0	0	0	9	10	0	0	0
Kentucky	0	0	0	168	50	0	0	25
Mississippi	0	0	0	3	4	0	0	1
Tennessee	0	0	0	11	11	0	0	11
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	6	12	0	0	2
Louisiana	0	0	0	0	47	0	0	7
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	2	1	0	0	1
Mountain	**0**	**23**	**0**	**1**	**3**	**0**	**0**	**2**
Arizona	0	0	0	2	3	0	0	1
Colorado	0	0	0	5	4	0	0	3
Idaho	0	124	0	7	6	0	0	11
Montana	0	0	0	38	5	0	0	3
Nevada	0	23	0	2	9	0	0	7
New Mexico	0	0	0	7	3	0	0	2
Utah	0	88	0	4	8	0	0	7
Wyoming	0	0	0	0	6	0	0	5
Pacific Contiguous	**0**	**10**	**0**	**1**	**2**	**0**	**0**	**1**
California	0	10	0	1	2	0	0	2
Oregon	0	93	0	7	3	0	0	2
Washington	0	0	0	44	5	0	0	5
Pacific Noncontiguous	**0**	**60**	**0**	**8**	**14**	**0**	**0**	**5**
Alaska	0	0	0	0	36	0	0	29
Hawaii	0	60	0	8	15	0	0	5
U.S. Total	**0**	**12**	**0**	**1**	**1**	**0**	**0**	**0**

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

Independent Power Producers by Census Division and State, Year-to-Date through April 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**56**	**0**	**3**	**0**	**0**	**8**
Connecticut	0	90	0	0	0	0	23
Maine	0	3	0	0	0	0	10
Massachusetts	0	105	0	8	0	0	17
New Hampshire	0	1,448	0	0	0	0	19
Rhode Island	0	179	0	15	0	0	0
Vermont	0	0	0	0	0	0	17
Middle Atlantic	**5**	**94**	**0**	**1**	**0**	**0**	**7**
New Jersey	0	97	0	3	0	0	0
New York	0	89	0	4	0	0	8
Pennsylvania	6	192	0	1	0	0	8
East North Central	**0**	**4**	**16**	**2**	**49**	**0**	**37**
Illinois	0	5	0	10	0	0	38
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	1	0	0	78
Ohio	0	4	16	1	49	0	130
Wisconsin	0	0	0	2	0	0	81
West North Central	**0**	**118**	**0**	**10**	**0**	**0**	**47**
Iowa	0	64	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	180	0	34	0	0	59
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	**32**	**32**	**0**	**2**	**0**	**0**	**4**
Delaware	0	141	0	0	0	0	0
Florida	0	18	0	8	0	0	0
Georgia	0	207	0	6	0	0	136
Maryland	0	27	0	1	0	0	1
North Carolina	0	89	0	9	0	0	52
South Carolina	0	0	0	51	0	0	56
Virginia	0	24	0	2	0	0	53
West Virginia	124	0	0	5	0	0	23
East South Central	**0**	**90**	**0**	**0**	**0**	**0**	**157**
Alabama	0	138	0	0	0	0	0
Kentucky	0	0	0	0	0	0	157
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	**0**	**2**	**0**	**2**	**0**	**0**	**14**
Arkansas	0	0	0	0	0	0	58
Louisiana	0	0	0	9	0	0	15
Oklahoma	0	0	0	0	0	0	0
Texas	0	9	0	2	0	0	0
Mountain	**4**	**71**	**0**	**4**	**0**	**0**	**23**
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	9	0	0	53
Idaho	0	0	0	35	0	0	30
Montana	4	486	0	74	0	0	75
Nevada	0	0	0	0	0	0	57
New Mexico	0	0	0	4	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**51**	**0**	**1**	**0**	**0**	**31**
California	0	0	0	2	0	0	40
Oregon	0	0	0	0	0	0	54
Washington	0	86	0	9	0	0	44
Pacific Noncontiguous	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Alaska	37	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**1**	**6**	**11**	**1**	**13**	**0**	**5**

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 April 2020 (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**	**6**	**4**	**0**	**1**	**2**
Connecticut	0	0	0	16	11	0	0	0
Maine	0	0	0	65	5	0	0	5
Massachusetts	0	0	0	7	5	0	1	5
New Hampshire	0	0	0	0	16	0	0	5
Rhode Island	0	0	0	26	9	0	0	14
Vermont	0	0	0	21	16	0	0	12
Middle Atlantic	**0**	**0**	**0**	**5**	**2**	**0**	**0**	**1**
New Jersey	0	0	0	7	5	0	0	1
New York	0	0	0	9	3	0	0	1
Pennsylvania	0	0	0	22	3	0	0	1
East North Central	**0**	**0**	**0**	**7**	**1**	**0**	**14**	**0**
Illinois	0	0	0	22	2	0	0	1
Indiana	0	0	0	16	3	0	0	1
Michigan	0	0	0	31	5	0	21	1
Ohio	0	0	0	7	3	0	0	0
Wisconsin	0	0	0	31	7	0	0	1
West North Central	**0**	**0**	**0**	**5**	**1**	**0**	**0**	**1**
Iowa	0	0	0	70	3	0	0	2
Kansas	0	0	0	17	2	0	0	2
Minnesota	0	0	0	6	3	0	0	3
Missouri	0	0	0	23	3	0	0	2
Nebraska	0	0	0	35	2	0	0	2
North Dakota	0	0	0	0	2	0	0	2
South Dakota	0	0	0	163	3	0	0	3
South Atlantic	**0**	**0**	**0**	**2**	**1**	**0**	**0**	**1**
Delaware	0	0	0	32	32	0	0	1
District of Columbia	0	0	0	67	67	0	0	67
Florida	0	0	0	6	4	0	1	4
Georgia	0	0	0	3	3	0	0	5
Maryland	0	0	0	9	6	0	0	0
North Carolina	0	0	0	2	2	0	0	4
South Carolina	0	0	0	4	7	0	0	9
Virginia	0	0	0	7	8	0	0	2
West Virginia	0	0	0	0	5	0	0	14
East South Central	**0**	**0**	**0**	**4**	**5**	**0**	**0**	**0**
Alabama	0	0	0	9	10	0	0	0
Kentucky	0	0	0	168	50	0	0	25
Mississippi	0	0	0	3	4	0	0	1
Tennessee	0	0	0	11	11	0	0	11
West South Central	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**1**
Arkansas	0	0	0	6	12	0	0	2
Louisiana	0	0	0	0	47	0	0	7
Oklahoma	0	0	0	0	2	0	0	2
Texas	0	0	0	2	1	0	0	1
Mountain	**0**	**23**	**0**	**1**	**3**	**0**	**0**	**2**
Arizona	0	0	0	2	3	0	0	1
Colorado	0	0	0	5	4	0	0	3
Idaho	0	124	0	7	6	0	0	11
Montana	0	0	0	38	5	0	0	3
Nevada	0	23	0	2	9	0	0	7
New Mexico	0	0	0	7	3	0	0	2
Utah	0	88	0	4	8	0	0	7
Wyoming	0	0	0	0	6	0	0	5
Pacific Contiguous	**0**	**10**	**0**	**1**	**2**	**0**	**0**	**1**
California	0	10	0	1	2	0	0	2
Oregon	0	93	0	7	3	0	0	2
Washington	0	0	0	44	5	0	0	5
Pacific Noncontiguous	**0**	**60**	**0**	**8**	**14**	**0**	**0**	**5**
Alaska	0	0	0	0	36	0	0	29
Hawaii	0	60	0	8	15	0	0	5
U.S. Total	**0**	**12**	**0**	**1**	**1**	**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.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, April 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**26**	**0**	**34**	**0**	**0**	**0**
Connecticut	0	927	0	55	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	72	0	51	0	0	0
New Hampshire	0	2	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**185**	**0**	**34**	**0**	**0**	**0**
New Jersey	0	0	0	96	0	0	0
New York	0	218	0	42	0	0	0
Pennsylvania	0	492	0	0	0	0	0
East North Central	**119**	**167**	**0**	**12**	**0**	**0**	**0**
Illinois	119	552	0	36	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	213	0	11	0	0	0
Ohio	0	0	0	11	0	0	0
Wisconsin	0	658	0	32	0	0	0
West North Central	**0**	**64**	**0**	**8**	**0**	**0**	**0**
Iowa	0	0	0	19	0	0	0
Minnesota	0	62	0	28	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	1,116	0	0	0	0	0
South Atlantic	**0**	**3**	**0**	**10**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	48	0	0	0	0	0
Maryland	0	0	0	8	0	0	0
North Carolina	0	127	0	85	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**	**55**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	55	0	0	0
West South Central	**0**	**0**	**0**	**29**	**0**	**0**	**503**
Arkansas	0	0	0	174	0	0	0
Louisiana	0	0	0	34	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	37	0	0	503
Mountain	**0**	**871**	**0**	**12**	**0**	**0**	**0**
Arizona	0	871	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	55	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**35**	**0**	**7**	**0**	**0**	**166**
California	0	66	0	7	0	0	166
Oregon	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**34**	**4**	**0**	**0**	**0**	**0**	**65**
Alaska	34	208	0	0	0	0	65
Hawaii	0	0	0	0	0	0	0
U.S. Total	**25**	**18**	**0**	**7**	**0**	**0**	**46**

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, April 2020 (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**	**67**	**12**	**0**	**0**	**26**
Connecticut	0	0	0	96	96	0	0	53
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	92	24	0	0	43
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**17**	**6**	**0**	**7**	**13**
New Jersey	0	0	0	18	10	0	0	12
New York	0	0	0	64	7	0	5	23
Pennsylvania	0	0	0	81	16	0	32	12
East North Central	**0**	**0**	**0**	**54**	**12**	**0**	**0**	**10**
Illinois	0	0	0	118	88	0	0	35
Indiana	0	0	0	159	22	0	0	4
Michigan	0	0	0	154	7	0	0	9
Ohio	0	0	0	105	37	0	0	11
Wisconsin	0	0	0	99	21	0	0	19
West North Central	**0**	**0**	**0**	**0**	**28**	**0**	**32**	**9**
Iowa	0	0	0	0	25	0	0	15
Kansas	0	0	0	0	160	0	0	160
Minnesota	0	0	0	0	39	0	32	19
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	163	0	0	163
South Dakota	0	0	0	0	0	0	0	1,116
South Atlantic	**0**	**0**	**0**	**19**	**7**	**0**	**0**	**6**
Delaware	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	72	27	0	0	19
Georgia	0	0	0	131	131	0	0	102
Maryland	0	0	0	56	36	0	0	8
North Carolina	0	0	0	21	21	0	0	31
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	171	4	0	0	2
East South Central	**0**	**0**	**0**	**98**	**98**	**0**	**0**	**53**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	98	98	0	0	53
West South Central	**0**	**0**	**0**	**23**	**17**	**0**	**0**	**26**
Arkansas	0	0	0	0	0	0	0	90
Louisiana	0	0	0	0	0	0	0	34
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	132	24	0	0	33
Mountain	**0**	**0**	**0**	**23**	**4**	**0**	**0**	**5**
Arizona	0	0	0	64	64	0	0	6
Colorado	0	0	0	49	46	0	0	37
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	28	3	0	0	3
New Mexico	0	0	0	0	332	0	0	54
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**18**	**6**	**0**	**0**	**5**
California	0	0	0	18	6	0	0	5
Oregon	0	0	0	0	29	0	0	11
Washington	0	0	0	0	60	0	0	27
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**13**
Alaska	0	0	0	0	0	0	0	33
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**9**	**3**	**0**	**3**	**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 April 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**26**	**0**	**34**	**0**	**0**	**0**
Connecticut	0	927	0	55	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	72	0	51	0	0	0
New Hampshire	0	2	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	**0**	**185**	**0**	**34**	**0**	**0**	**0**
New Jersey	0	0	0	96	0	0	0
New York	0	218	0	42	0	0	0
Pennsylvania	0	492	0	0	0	0	0
East North Central	**119**	**167**	**0**	**12**	**0**	**0**	**0**
Illinois	119	552	0	36	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	213	0	11	0	0	0
Ohio	0	0	0	11	0	0	0
Wisconsin	0	658	0	32	0	0	0
West North Central	**0**	**64**	**0**	**8**	**0**	**0**	**0**
Iowa	0	0	0	19	0	0	0
Minnesota	0	62	0	28	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	1,116	0	0	0	0	0
South Atlantic	**0**	**3**	**0**	**10**	**0**	**0**	**0**
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	48	0	0	0	0	0
Maryland	0	0	0	8	0	0	0
North Carolina	0	127	0	85	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**	**55**	**0**	**0**	**0**
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	55	0	0	0
West South Central	**0**	**0**	**0**	**29**	**0**	**0**	**503**
Arkansas	0	0	0	174	0	0	0
Louisiana	0	0	0	34	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	37	0	0	503
Mountain	**0**	**871**	**0**	**12**	**0**	**0**	**0**
Arizona	0	871	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	55	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**35**	**0**	**7**	**0**	**0**	**166**
California	0	66	0	7	0	0	166
Oregon	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	**34**	**4**	**0**	**0**	**0**	**0**	**65**
Alaska	34	208	0	0	0	0	65
Hawaii	0	0	0	0	0	0	0
U.S. Total	**25**	**18**	**0**	**7**	**0**	**0**	**46**

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 April 2020 (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**	**67**	**12**	**0**	**0**	**26**
Connecticut	0	0	0	96	96	0	0	53
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	92	24	0	0	43
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**0**	**0**	**0**	**17**	**6**	**0**	**7**	**13**
New Jersey	0	0	0	18	10	0	0	12
New York	0	0	0	64	7	0	5	23
Pennsylvania	0	0	0	81	16	0	32	12
East North Central	**0**	**0**	**0**	**54**	**12**	**0**	**0**	**10**
Illinois	0	0	0	118	88	0	0	35
Indiana	0	0	0	159	22	0	0	4
Michigan	0	0	0	154	7	0	0	9
Ohio	0	0	0	105	37	0	0	11
Wisconsin	0	0	0	99	21	0	0	19
West North Central	**0**	**0**	**0**	**0**	**28**	**0**	**32**	**9**
Iowa	0	0	0	0	25	0	0	15
Kansas	0	0	0	0	160	0	0	160
Minnesota	0	0	0	0	39	0	32	19
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	163	0	0	163
South Dakota	0	0	0	0	0	0	0	1,116
South Atlantic	**0**	**0**	**0**	**19**	**7**	**0**	**0**	**6**
Delaware	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	72	27	0	0	19
Georgia	0	0	0	131	131	0	0	102
Maryland	0	0	0	56	36	0	0	8
North Carolina	0	0	0	21	21	0	0	31
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	171	4	0	0	2
East South Central	**0**	**0**	**0**	**98**	**98**	**0**	**0**	**53**
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	98	98	0	0	53
West South Central	**0**	**0**	**0**	**23**	**17**	**0**	**0**	**26**
Arkansas	0	0	0	0	0	0	0	90
Louisiana	0	0	0	0	0	0	0	34
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	132	24	0	0	33
Mountain	**0**	**0**	**0**	**23**	**4**	**0**	**0**	**5**
Arizona	0	0	0	64	64	0	0	6
Colorado	0	0	0	49	46	0	0	37
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	28	3	0	0	3
New Mexico	0	0	0	0	332	0	0	54
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	**0**	**0**	**0**	**18**	**6**	**0**	**0**	**5**
California	0	0	0	18	6	0	0	5
Oregon	0	0	0	0	29	0	0	11
Washington	0	0	0	0	60	0	0	27
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**13**
Alaska	0	0	0	0	0	0	0	33
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**9**	**3**	**0**	**3**	**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, April 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**138**	**17**	**0**	**17**	**0**	**0**	**48**
Connecticut	0	0	0	31	0	0	0
Maine	138	30	0	19	0	0	48
Massachusetts	0	0	0	25	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	0	0	130	0	0	0
Middle Atlantic	**0**	**5**	**0**	**20**	**37**	**0**	**19**
New Jersey	0	0	0	22	0	0	0
New York	0	11	0	12	0	0	19
Pennsylvania	0	4	0	35	55	0	0
East North Central	**5**	**21**	**0**	**9**	**17**	**0**	**35**
Illinois	5	0	0	60	0	0	0
Indiana	0	6	0	11	23	0	0
Michigan	89	118	0	19	0	0	125
Ohio	0	0	0	11	0	0	0
Wisconsin	17	0	0	17	0	0	36
West North Central	**4**	**0**	**0**	**6**	**0**	**0**	**0**
Iowa	2	0	0	9	0	0	0
Kansas	0	0	0	13	0	0	0
Minnesota	38	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	13	0	0	0	0	0	0
North Dakota	52	0	0	0	0	0	0
South Atlantic	**41**	**51**	**43**	**8**	**0**	**0**	**19**
Delaware	0	0	0	0	0	0	0
Florida	200	109	0	18	0	0	0
Georgia	86	73	43	32	0	0	62
Maryland	0	0	0	0	0	0	0
North Carolina	25	107	0	43	0	0	386
South Carolina	0	0	0	24	0	0	0
Virginia	0	142	0	9	0	0	0
West Virginia	0	0	0	0	0	0	19
East South Central	**37**	**53**	**0**	**12**	**105**	**0**	**0**
Alabama	209	148	0	24	892	0	0
Kentucky	0	0	0	20	0	0	0
Mississippi	0	0	0	32	0	0	0
Tennessee	0	0	0	7	0	0	0
West South Central	**0**	**24**	**0**	**2**	**13**	**0**	**0**
Arkansas	0	0	0	45	0	0	0
Louisiana	0	0	0	3	17	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	32	0	3	13	0	0
Mountain	**18**	**0**	**0**	**7**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	121	0	0	38	0	0	0
Montana	262	0	0	538	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	18	0	0	11	0	0	0
Pacific Contiguous	**0**	**174**	**0**	**2**	**2**	**0**	**0**
California	0	0	0	2	2	0	0
Oregon	0	0	0	51	0	0	0
Washington	0	192	0	13	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**60**
Alaska	0	13	0	0	0	0	0
Hawaii	0	0	0	0	0	0	60
U.S. Total	**6**	**10**	**21**	**2**	**8**	**0**	**13**

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, April 2020 (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**	**93**	**8**	**0**	**0**	**9**
Connecticut	0	0	0	605	605	0	0	31
Maine	0	0	0	0	8	0	0	8
Massachusetts	0	0	0	94	81	0	0	24
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	130
Middle Atlantic	**0**	**0**	**0**	**49**	**9**	**0**	**0**	**13**
New Jersey	0	0	0	79	79	0	0	13
New York	0	0	0	99	21	0	0	10
Pennsylvania	0	0	0	77	10	0	0	22
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**2**	**5**
Illinois	0	0	0	0	0	0	0	7
Indiana	0	0	0	0	27	0	0	11
Michigan	0	0	0	0	12	0	0	11
Ohio	0	0	0	0	9	0	0	6
Wisconsin	0	0	0	0	10	0	71	9
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	13
Minnesota	0	0	0	0	0	0	0	6
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	13
North Dakota	0	0	0	0	0	0	0	31
South Atlantic	**0**	**0**	**0**	**138**	**3**	**0**	**0**	**3**
Delaware	0	0	0	0	63	0	0	1
Florida	0	0	0	0	6	0	0	6
Georgia	0	0	0	0	5	0	0	7
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	5	0	0	6
South Carolina	0	0	0	138	3	0	0	3
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	12
East South Central	**0**	**0**	**0**	**90**	**3**	**0**	**0**	**5**
Alabama	0	0	0	0	4	0	0	7
Kentucky	0	0	0	0	18	0	0	14
Mississippi	0	0	0	0	5	0	0	9
Tennessee	0	0	0	90	8	0	0	4
West South Central	**0**	**0**	**0**	**0**	**5**	**0**	**2**	**2**
Arkansas	0	0	0	0	9	0	0	12
Louisiana	0	0	0	0	7	0	0	3
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	12	0	6	3
Mountain	**0**	**0**	**0**	**87**	**2**	**0**	**0**	**4**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	138	2	0	0	9
Montana	0	0	0	0	0	0	0	49
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	7
Pacific Contiguous	**0**	**0**	**0**	**40**	**7**	**0**	**3**	**2**
California	0	0	0	40	13	0	3	1
Oregon	0	0	0	0	13	0	0	14
Washington	0	0	0	0	10	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**
Alaska	0	0	0	0	0	0	0	4
Hawaii	0	0	0	0	0	0	0	10
U.S. Total	**0**	**0**	**0**	**26**	**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 April 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**138**	**17**	**0**	**17**	**0**	**0**	**48**
Connecticut	0	0	0	31	0	0	0
Maine	138	30	0	19	0	0	48
Massachusetts	0	0	0	25	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	0	0	130	0	0	0
Middle Atlantic	**0**	**5**	**0**	**20**	**37**	**0**	**19**
New Jersey	0	0	0	22	0	0	0
New York	0	11	0	12	0	0	19
Pennsylvania	0	4	0	35	55	0	0
East North Central	**5**	**21**	**0**	**9**	**17**	**0**	**35**
Illinois	5	0	0	60	0	0	0
Indiana	0	6	0	11	23	0	0
Michigan	89	118	0	19	0	0	125
Ohio	0	0	0	11	0	0	0
Wisconsin	17	0	0	17	0	0	36
West North Central	**4**	**0**	**0**	**6**	**0**	**0**	**0**
Iowa	2	0	0	9	0	0	0
Kansas	0	0	0	13	0	0	0
Minnesota	38	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	13	0	0	0	0	0	0
North Dakota	52	0	0	0	0	0	0
South Atlantic	**41**	**51**	**43**	**8**	**0**	**0**	**19**
Delaware	0	0	0	0	0	0	0
Florida	200	109	0	18	0	0	0
Georgia	86	73	43	32	0	0	62
Maryland	0	0	0	0	0	0	0
North Carolina	25	107	0	43	0	0	386
South Carolina	0	0	0	24	0	0	0
Virginia	0	142	0	9	0	0	0
West Virginia	0	0	0	0	0	0	19
East South Central	**37**	**53**	**0**	**12**	**105**	**0**	**0**
Alabama	209	148	0	24	892	0	0
Kentucky	0	0	0	20	0	0	0
Mississippi	0	0	0	32	0	0	0
Tennessee	0	0	0	7	0	0	0
West South Central	**0**	**24**	**0**	**2**	**13**	**0**	**0**
Arkansas	0	0	0	45	0	0	0
Louisiana	0	0	0	3	17	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	32	0	3	13	0	0
Mountain	**18**	**0**	**0**	**7**	**0**	**0**	**0**
Colorado	0	0	0	0	0	0	0
Idaho	121	0	0	38	0	0	0
Montana	262	0	0	538	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	18	0	0	11	0	0	0
Pacific Contiguous	**0**	**174**	**0**	**2**	**2**	**0**	**0**
California	0	0	0	2	2	0	0
Oregon	0	0	0	51	0	0	0
Washington	0	192	0	13	0	0	0
Pacific Noncontiguous	**0**	**2**	**0**	**0**	**0**	**0**	**60**
Alaska	0	13	0	0	0	0	0
Hawaii	0	0	0	0	0	0	60
U.S. Total	**6**	**10**	**21**	**2**	**8**	**0**	**13**

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 April 2020 (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**	**93**	**8**	**0**	**0**	**9**
Connecticut	0	0	0	605	605	0	0	31
Maine	0	0	0	0	8	0	0	8
Massachusetts	0	0	0	94	81	0	0	24
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	130
Middle Atlantic	**0**	**0**	**0**	**49**	**9**	**0**	**0**	**13**
New Jersey	0	0	0	79	79	0	0	13
New York	0	0	0	99	21	0	0	10
Pennsylvania	0	0	0	77	10	0	0	22
East North Central	**0**	**0**	**0**	**0**	**6**	**0**	**2**	**5**
Illinois	0	0	0	0	0	0	0	7
Indiana	0	0	0	0	27	0	0	11
Michigan	0	0	0	0	12	0	0	11
Ohio	0	0	0	0	9	0	0	6
Wisconsin	0	0	0	0	10	0	71	9
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	13
Minnesota	0	0	0	0	0	0	0	6
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	13
North Dakota	0	0	0	0	0	0	0	31
South Atlantic	**0**	**0**	**0**	**138**	**3**	**0**	**0**	**3**
Delaware	0	0	0	0	63	0	0	1
Florida	0	0	0	0	6	0	0	6
Georgia	0	0	0	0	5	0	0	7
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	5	0	0	6
South Carolina	0	0	0	138	3	0	0	3
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	12
East South Central	**0**	**0**	**0**	**90**	**3**	**0**	**0**	**5**
Alabama	0	0	0	0	4	0	0	7
Kentucky	0	0	0	0	18	0	0	14
Mississippi	0	0	0	0	5	0	0	9
Tennessee	0	0	0	90	8	0	0	4
West South Central	**0**	**0**	**0**	**0**	**5**	**0**	**2**	**2**
Arkansas	0	0	0	0	9	0	0	12
Louisiana	0	0	0	0	7	0	0	3
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	12	0	6	3
Mountain	**0**	**0**	**0**	**87**	**2**	**0**	**0**	**4**
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	138	2	0	0	9
Montana	0	0	0	0	0	0	0	49
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	7
Pacific Contiguous	**0**	**0**	**0**	**40**	**7**	**0**	**3**	**2**
California	0	0	0	40	13	0	3	1
Oregon	0	0	0	0	13	0	0	14
Washington	0	0	0	0	10	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**
Alaska	0	0	0	0	0	0	0	4
Hawaii	0	0	0	0	0	0	0	10
U.S. Total	**0**	**0**	**0**	**26**	**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, April 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**1**
Connecticut	0	2	3	0	1
Maine	0	1	2	0	1
Massachusetts	1	1	5	0	1
New Hampshire	0	1	2	0	1
Rhode Island	0	0	0	0	0
Vermont	2	8	7	0	3
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	1	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	**0**	**1**	**1**	**0**	**1**
Illinois	1	1	1	0	1
Indiana	1	4	2	0	1
Michigan	1	3	6	0	2
Ohio	0	1	1	0	1
Wisconsin	1	4	9	0	3
West North Central	**1**	**2**	**4**	**0**	**2**
Iowa	2	9	7	0	4
Kansas	2	2	11	0	3
Minnesota	2	6	10	0	4
Missouri	1	3	7	0	2
Nebraska	2	9	13	0	6
North Dakota	2	5	10	0	5
South Dakota	3	11	18	0	6
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	2	5	0	2
District of Columbia	0	0	0	0	0
Florida	0	1	7	0	1
Georgia	1	1	6	0	2
Maryland	0	1	2	0	0
North Carolina	1	1	6	0	1
South Carolina	1	1	5	0	2
Virginia	1	0	6	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	2	4	0	2
Kentucky	1	5	3	0	2
Mississippi	2	2	7	0	3
Tennessee	1	4	5	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	2	6	0	3
Louisiana	1	1	2	0	1
Oklahoma	1	1	6	0	2
Texas	1	1	2	0	1
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	2	4	0	1
Colorado	1	5	8	0	3
Idaho	1	5	6	0	3
Montana	2	9	6	0	4
Nevada	0	2	1	0	1
New Mexico	2	7	8	0	4
Utah	1	5	3	0	2
Wyoming	3	9	6	0	4
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	0	1	2	0	1
Oregon	2	5	12	0	4
Washington	1	5	9	0	3
Pacific Noncontiguous	**1**	**6**	**7**	**0**	**3**
Alaska	3	11	22	0	7
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 April 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**0**
Connecticut	0	1	3	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	5	0	1
New Hampshire	1	2	3	0	1
Rhode Island	0	0	0	0	0
Vermont	3	6	6	0	3
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	1	0	0
Indiana	1	3	2	0	1
Michigan	1	2	4	0	1
Ohio	1	1	1	0	0
Wisconsin	1	3	6	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	1	7	6	0	3
Kansas	1	1	7	0	2
Minnesota	1	4	8	0	3
Missouri	1	2	5	0	1
Nebraska	1	7	10	0	4
North Dakota	1	4	8	0	4
South Dakota	2	9	14	0	4
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	1	2	5	0	1
District of Columbia	0	0	0	0	0
Florida	0	0	5	0	1
Georgia	1	1	4	0	1
Maryland	0	1	2	0	0
North Carolina	1	1	4	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	5	1	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	3	0	1
Kentucky	2	3	2	0	1
Mississippi	2	2	5	0	2
Tennessee	1	3	4	0	1
West South Central	**1**	**1**	**1**	**0**	**1**
Arkansas	1	1	4	0	2
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	2
Texas	1	1	2	0	1
Mountain	**0**	**1**	**2**	**0**	**1**
Arizona	1	2	4	0	1
Colorado	1	4	6	0	2
Idaho	1	4	5	0	2
Montana	2	7	6	0	3
Nevada	1	2	1	0	1
New Mexico	2	6	7	0	3
Utah	1	4	3	0	2
Wyoming	2	7	4	0	3
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	10	0	3
Washington	1	4	8	0	2
Pacific Noncontiguous	**1**	**5**	**5**	**0**	**2**
Alaska	2	9	17	0	5
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, April 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**1**	**0**	**0**
Connecticut	0	1	1	0	0
Maine	0	1	2	0	1
Massachusetts	0	1	2	0	1
New Hampshire	0	1	2	0	1
Rhode Island	0	0	0	0	0
Vermont	2	7	5	0	3
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	1	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	**0**	**1**	**2**	**0**	**1**
Illinois	1	1	1	0	1
Indiana	1	4	2	0	1
Michigan	1	2	7	0	1
Ohio	1	1	1	0	0
Wisconsin	2	3	11	0	3
West North Central	**1**	**2**	**6**	**0**	**2**
Iowa	3	7	10	0	4
Kansas	2	3	8	0	2
Minnesota	2	4	13	0	3
Missouri	2	4	6	0	2
Nebraska	3	8	16	0	6
North Dakota	3	4	10	0	5
South Dakota	4	8	21	0	5
South Atlantic	**0**	**1**	**2**	**0**	**0**
Delaware	1	3	6	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	6	0	1
Georgia	1	2	6	0	1
Maryland	0	1	2	0	0
North Carolina	1	2	5	0	1
South Carolina	1	2	4	0	1
Virginia	1	1	5	0	1
West Virginia	0	2	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	2	4	0	1
Kentucky	2	5	3	0	2
Mississippi	2	4	7	0	2
Tennessee	1	4	5	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	3	6	0	2
Louisiana	1	2	2	0	1
Oklahoma	2	3	7	0	2
Texas	1	2	3	0	1
Mountain	**1**	**2**	**4**	**0**	**1**
Arizona	1	3	7	0	1
Colorado	3	5	10	0	3
Idaho	2	5	8	0	3
Montana	3	6	11	0	4
Nevada	1	3	3	0	1
New Mexico	5	9	14	0	5
Utah	4	6	5	0	3
Wyoming	4	7	8	0	4
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	0	1	2	0	0
Oregon	2	4	14	0	3
Washington	1	3	12	0	2
Pacific Noncontiguous	**1**	**3**	**4**	**0**	**2**
Alaska	3	8	24	0	5
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

Table A.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 April 2020

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

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

Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, April 2020

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

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

Table A.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 April 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	0	1	2	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	4	0	1
New Hampshire	1	0	0	0	0
Rhode Island	0	0	0	0	0
Vermont	3	6	6	0	3
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	0	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	1	0	0
Indiana	1	3	2	0	1
Michigan	1	2	5	0	1
Ohio	1	1	1	0	0
Wisconsin	1	3	8	0	3
West North Central	**1**	**2**	**4**	**0**	**1**
Iowa	2	7	8	0	3
Kansas	2	2	7	0	2
Minnesota	2	4	10	0	3
Missouri	2	3	5	0	2
Nebraska	2	7	13	0	5
North Dakota	2	4	9	0	4
South Dakota	3	9	16	0	4
South Atlantic	**0**	**0**	**2**	**0**	**0**
Delaware	2	2	5	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	6	0	1
Georgia	1	1	5	0	1
Maryland	0	1	2	0	0
North Carolina	1	1	4	0	1
South Carolina	1	1	4	0	1
Virginia	1	1	5	1	1
West Virginia	0	1	0	0	0
East South Central	**1**	**2**	**2**	**0**	**1**
Alabama	1	2	3	0	1
Kentucky	2	4	3	0	2
Mississippi	2	3	6	0	2
Tennessee	1	3	4	0	2
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	1	2	5	0	2
Louisiana	1	1	2	0	1
Oklahoma	1	2	5	0	2
Texas	1	1	2	0	1
Mountain	**1**	**2**	**3**	**0**	**1**
Arizona	1	2	5	0	1
Colorado	3	4	8	0	3
Idaho	1	4	7	0	2
Montana	2	7	9	0	3
Nevada	1	2	2	0	1
New Mexico	4	7	10	0	4
Utah	3	5	4	0	2
Wyoming	3	7	6	0	3
Pacific Contiguous	**0**	**1**	**3**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	12	0	3
Washington	1	4	9	0	2
Pacific Noncontiguous	**1**	**4**	**5**	**0**	**2**
Alaska	2	9	18	0	5
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

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
2020	1	. .	. .	. Hours, . Minutes	Entergy Transmission Control Center - South	SPP RE	Arkansas:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-System Operations		
2020	1	. .	. .	. Hours, . Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	219	30715
2020	1	. .	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Tennessee:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather	4	
2020	1	. .	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Humboldt County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather/Transmission Interruption	87	67864
2020	1	. .	. .	. Hours, . Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	North Dakota: Burleigh County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	75	0
2020	1	. .	. .	. Hours, . Minutes	Entergy Corp	SPP RE	Arkansas: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		68138
2020	1	. .	. .	. Hours, . 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		66475
2020	1	. .	. .	. Hours, . Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas: Cross County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	22	7541
2020	1	. .	. .	. 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
2020	1	. .	. .	. Hours, . Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas: Yell County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2020	2	. .	. .	. Hours, . 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		7500
2020	2	. .	. .	. Hours, . Minutes	Portland General Electric Co	WECC	Oregon: Clackamas County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption		0
2020	2	. .	. .	. Hours, . Minutes	Duke Energy Progress	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption		284256
2020	2	. .	. .	. Hours, . 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/Transmission Interruption		89500
2020	2	. .	. .	. Hours, . 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		123359
2020	2	. .	. .	. Hours, . Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption		52000
2020	2	. .	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Alameda County, Contra Costa County, El Dorado County, Nevada County, Placer County, Sierra County, Santa Clara County, Napa County, Marin County, Santa Cruz County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	500	145000
2020	2	. .	. .	. Hours, . Minutes	Dominion Energy VA	SERC	Virginia: North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		87000
2020	2	. .	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	Northern and Central California;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	91	70000

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

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
2020	3	. .	. .	. Hours, . Minutes	FirstEnergy Corp	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	19	11964
2020	3	. .	. .	. Hours, . Minutes	Pacificorp	WECC	Utah:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Natural Disaster	237	73000
2020	3	. .	. .	. Hours, . 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		51026
2020	3	. .	. .	. Hours, . Minutes	Entergy - Transmission Operations Engineering	SERC	Mississippi: Rankin County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	19	3136
2020	3	. .	. .	. 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	165	110800
2020	3	. .	. .	. Hours, . Minutes	PECO Energy Co	RF	Pennsylvania:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	40	15864
2020	3	. .	. .	. Hours, . Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	412	57744
2020	3	. .	. .	. Hours, . Minutes	Somerset Operating Company	NPCC	Western NY	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	675	
2020	3	. .	. .	. Hours, . Minutes	Entergy - Transmission Operations Engineering	SERC	Mississippi: Panola County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	4	1558
2020	4	. .	. .	. Hours, . Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		
2020	4	. .	. .	. Hours, . 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		68476
2020	4	. .	. .	. Hours, . Minutes	Dominion Energy VA	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		95000
2020	4	. .	. .	. Hours, . Minutes	Dominion Energy South Carolina	SERC	South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		72233
2020	4	. .	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Tennessee: Hamilton County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		120000
2020	4	. .	. .	. Hours, . Minutes	American Electric Power - (SPP Reliability Region)	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		63289
2020	4	. .	. .	. Hours, . 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		216400
2020	4	. .	. .	. Hours, . Minutes	ISO New England	NPCC	Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		340000
2020	4	. .	. .	. Hours, . Minutes	Southern Company	SERC	Mississippi: Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	448	62828
2020	4	. .	. .	. Hours, . Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		95000
2020	4	. .	. .	. Hours, . Minutes	Ohio Edison Co	WECC	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		82509
2020	4	. .	. .	. Hours, . Minutes	American Electric Power - (RFC Reliability Region)	RF	Virginia: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		104000
2020	4	. .	. .	. Hours, . Minutes	Duke Energy Midwest	RF	Indiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		93000
2020	4	. .	. .	. Hours, . Minutes	Duke Energy Midwest	RF	Ohio: Kentucky:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		78314
2020	4	. .	. .	. Hours, . Minutes	Arkansas Electric Coop Corp	SPP RE	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		51000

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2020

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
2020	4	. .	. .	. Hours, . Minutes	Bonneville Power Administration	WECC	Washington;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	4	. .	. .	. Hours, . Minutes	Exelon Corporation/PECO	RF	Pennsylvania: Bucks County, Chester County, Delaware County, Montgomery County, Philadelphia County, York County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		78007
2020	4	. .	. .	. Hours, . Minutes	CenterPoint Energy Houston Electric, LLC	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		146660
2020	4	. .	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Stanislaus County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather	7	6814
2020	4	. .	. .	. Hours, . Minutes	Entergy Corp	SERC	Louisiana;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		77933
2020	4	. .	. .	. Hours, . Minutes	Entergy - Transmission Operations Engineering	TRE	Texas: Jefferson County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	14	1
2020	4	. .	. .	. Hours, . Minutes	Entergy Corp	SPP RE	Arkansas;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		95318
2020	4	. .	. .	. Hours, . Minutes	Nebraska Public Power District	MRO	Nebraska: York County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	5	
2020	4	. .	. .	. Hours, . Minutes	Florida Power & Light	FRCC	Florida;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		49999
2020	4	. .	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Placer County, Nevada County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-System Operations	5	945
2020	4	. .	. .	. Hours, . 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	375	52163
2020	4	. .	. .	. Hours, . Minutes	Pacificorp	WECC	Wyoming;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2020	4	. .	. .	. Hours, . Minutes	Entergy Corp	SERC	Mississippi: Arkansas: Louisiana;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		55184
2020	4	. .	. .	. Hours, . Minutes	Southern Company	SERC	Alabama: Mississippi: Georgia: Florida;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	552	77341

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, 2019

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
2019	1	01/06/2019 1:00 AM	01/06/2019 12:00 PM	11 Hours, 0 Minutes	Puget Sound Energy	WECC	Washington: King County, Thurston County, Pierce County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		230000
2019	1	01/06/2019 3:00 AM	01/09/2019 7:00 AM	76 Hours, 0 Minutes	Peak Reliability	WECC	Washington:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	230	230000
2019	1	01/06/2019 5:56 PM	01/06/2019 9:52 PM	3 Hours, 56 Minutes	Sacramento Municipal Util Dist	WECC	California: Sacramento County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	300	90382
2019	1	01/10/2019 12:19 PM	01/10/2019 12:48 PM	0 Hours, 29 Minutes	Western Area Power Administration - Upper Great Plains Region	WECC	Montana: Valley County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-System Operations	11	2
2019	1	01/12/2019 11:30 AM	. .	. Hours, . Minutes	Southwest Power Pool, Inc.	SERC	Missouri: Nebraska:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		116600
2019	1	01/12/2019 11:30 AM	01/13/2019 10:00 PM	34 Hours, 30 Minutes	Kansas City Power & Light Co	SPP RE	Missouri: Jackson County; Kansas: Johnson County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		112530
2019	1	01/13/2019 5:30 AM	01/15/2019 5:00 PM	59 Hours, 30 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	133200	
2019	1	01/16/2019 5:26 PM	01/17/2019 12:19 PM	18 Hours, 53 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	190	126700
2019	1	01/18/2019 9:54 PM	01/19/2019 12:19 AM	2 Hours, 25 Minutes	Nebraska Public Power District	MRO	Nebraska:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	8	
2019	1	01/23/2019 7:26 AM	01/23/2019 5:05 PM	9 Hours, 39 Minutes	Western Area Power Administration	WECC	Colorado: Larimer County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-System Operations	0	0
2019	1	01/29/2019 6:34 PM	01/29/2019 6:36 PM	0 Hours, 2 Minutes	Entergy Transmission Control Center - North	SERC	Louisiana: Washington Parish;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption		
2019	1	01/30/2019 4:23 AM	02/02/2019 9:00 AM	76 Hours, 37 Minutes	Prairie Power, Inc.	SERC	Illinois: Scott County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency		
2019	1	01/30/2019 7:00 AM	01/30/2019 8:08 AM	1 Hours, 8 Minutes	Prairie Power, Inc.	SERC	Illinois: Pike County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Severe Weather		
2019	1	01/30/2019 9:30 AM	01/31/2019 6:00 PM	32 Hours, 30 Minutes	Detroit Edison Co	RF	Michigan:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather		
2019	2	02/05/2019 6:17 PM	02/05/2019 8:26 PM	2 Hours, 9 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Severe Weather	42	33200
2019	2	02/07/2019 7:39 AM	02/07/2019 7:40 AM	0 Hours, 1 Minutes	Entergy Transmission Control Center - North	SERC	Arkansas	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	3	3370
2019	2	02/07/2019 8:55 AM	02/09/2019 4:30 PM	55 Hours, 35 Minutes	Consumers Energy Co	RF	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		233000
2019	2	02/08/2019 6:30 PM	. .	. Hours, . Minutes	Puget Sound Energy	WECC	Washington	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		50940
2019	2	02/13/2019 2:48 AM	02/15/2019 12:28 AM	45 Hours, 40 Minutes	Pacific Gas & Electric Co	WECC	California	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	182	121000
2019	2	02/23/2019 2:05 PM	. .	. Hours, . Minutes	American Electric Power - (RFC Reliability Region)	SERC	Virginia	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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
2019	2	02/24/2019 11:21 AM	02/26/2019 5:29 PM	54 Hours, 8 Minutes	American Electric Power - (RFC Reliability Region)	RF	Ohio, Virginia, West Virginia	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		118781
2019	2	02/24/2019 12:31 PM	02/24/2019 2:57 PM	2 Hours, 26 Minutes	Ohio Edison Co	RF	Ohio	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		157274
2019	2	02/24/2019 2:33 PM	02/24/2019 6:03 PM	3 Hours, 30 Minutes	Monongahela Power Co	RF	Pennsylvania	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		94048
2019	2	02/24/2019 6:00 PM	02/25/2019 10:00 PM	28 Hours, 0 Minutes	Duquesne Light Co	RF	Pennsylvania	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		132000
2019	2	02/24/2019 6:47 PM	02/25/2019 1:55 PM	19 Hours, 8 Minutes	West Penn Power Company	RF	Pennsylvania	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		137216
2019	2	02/24/2019 8:02 PM	02/25/2019 2:30 PM	18 Hours, 28 Minutes	Consumers Energy Co	RF	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		115000
2019	2	02/25/2019 7:45 AM	02/25/2019 6:40 PM	10 Hours, 55 Minutes	ISO New England	NPCC	Massachusetts	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	2	02/25/2019 1:35 PM	02/26/2019 2:50 AM	13 Hours, 15 Minutes	ISO New England	NPCC	Connecticut, Massachusetts, New Hampshire, Maine, Vermont, Rhode Island	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		72332
2019	2	02/27/2019 11:25 AM	02/27/2019 5:39 PM	6 Hours, 14 Minutes	MidAmerican Energy Co	MRO	Iowa	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	3	03/13/2019 5:50 AM	03/13/2019 10:30 AM	4 Hours, 40 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Midland County, Ector County, Tarrant County, Dallas County, Wichita County, Brown County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		154124
2019	3	03/13/2019 11:29 AM	03/14/2019 9:11 PM	33 Hours, 42 Minutes	Public Service Company of Colorado	WECC	Colorado: Jefferson County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	58	58379
2019	3	03/13/2019 3:00 PM	03/14/2019 12:00 AM	9 Hours, 0 Minutes	Southwest Power Pool, Inc.	TRE	Texas: Kansas: Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption		66000
2019	3	03/13/2019 3:51 PM	03/16/2019 6:00 PM	74 Hours, 9 Minutes	Southwestern Public Service	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	50	54290
2019	4	04/03/2019 5:15 AM	04/03/2019 12:39 PM	7 Hours, 24 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
2019	4	04/04/2019 10:13 AM	04/04/2019 12:08 PM	1 Hours, 55 Minutes	Bonneville Power Administration	WECC	Montana:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	4	04/07/2019 1:46 PM	04/08/2019 5:50 PM	28 Hours, 4 Minutes	CenterPoint Energy	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	537	231956
2019	4	04/11/2019 7:48 PM	04/11/2019 8:00 PM	0 Hours, 12 Minutes	Bonneville Power Administration	WECC	Oregon: Washington:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	4	04/12/2019 11:20 AM	04/12/2019 12:46 PM	1 Hours, 26 Minutes	Xcel Energy	MRO	Minnesota: Martin County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	4	04/13/2019 6:15 PM	04/13/2019 11:15 PM	5 Hours, 0 Minutes	Entergy Corp	SERC	Mississippi: Arkansas: Texas: Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		60467
2019	4	04/15/2019 4:35 AM	04/15/2019 2:40 PM	10 Hours, 5 Minutes	Dominion Virginia Power	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		75290
2019	4	04/18/2019 7:55 PM	04/19/2019 5:29 PM	21 Hours, 34 Minutes	Southern Company	SERC	Alabama: Mississippi: Georgia: Florida:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	116	34695

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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
2019	4	04/18/2019 8:08 PM	04/19/2019 11:00 AM	14 Hours, 52 Minutes	Public Service Company of Colorado	WECC	Colorado: Clear Creek County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	4	04/25/2019 6:03 PM	04/25/2019 6:32 PM	0 Hours, 29 Minutes	Salt River Project	WECC	Arizona: Maricopa County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Generation Inadequacy	150	51366
2019	4	04/26/2019 1:00 AM	04/26/2019 1:27 PM	12 Hours, 27 Minutes	FirstEnergy Corp	RF	Pennsylvania:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	7	5830
2019	4	04/26/2019 3:16 PM	04/26/2019 3:17 PM	0 Hours, 1 Minutes	ISO New England	NPCC	Massachusetts: Hampden County[13];	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2019	4	04/26/2019 5:46 PM	04/27/2019 11:49 AM	18 Hours, 3 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		54071
2019	4	04/28/2019 10:43 AM	04/29/2019 2:06 AM	15 Hours, 23 Minutes	FirstEnergy Corp	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	5	05/08/2019 9:22 AM	05/08/2019 9:56 AM	0 Hours, 34 Minutes	PJM Interconnection	RF	Pennsylvania: Mercer County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	29	1
2019	5	05/08/2019 3:50 PM	05/13/2019 12:00 AM	104 Hours, 10 Minutes	Southwest Power Pool, Inc.	SPP RE	Louisiana: Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption		65844
2019	5	05/09/2019 5:55 PM	05/11/2019 8:50 PM	50 Hours, 55 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	691	238015
2019	5	05/09/2019 7:06 PM	05/10/2019 2:57 AM	7 Hours, 51 Minutes	CenterPoint Energy Houston Electric, LLC	TRE	Texas: Harris County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2019	5	05/10/2019 2:00 AM	05/10/2019 12:15 PM	10 Hours, 15 Minutes	Entergy Corp	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		61008
2019	5	05/18/2019 3:45 PM	05/20/2019 4:00 AM	36 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Ector County, Midland County, Tarrant County, Dallas County, Stephens County, Anderson County, McLennan County, Ellis County, Hunt County, Young County, Bell County, Limestone County, Collin County, Rockwall County, Henderson County, Parker County, Falls County, Freestone County, Kaufman County, Grayson County, Smith County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		68000
2019	5	05/23/2019 1:11 AM	05/23/2019 12:00 PM	10 Hours, 49 Minutes	Northern Indiana Pub Serv Co	RF	Indiana:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	0	0
2019	5	05/23/2019 4:55 PM	05/23/2019 11:40 PM	6 Hours, 45 Minutes	Dominion Energy VA	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		100000
2019	5	05/24/2019 9:47 PM	05/24/2019 11:58 PM	2 Hours, 11 Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system-Severe Weather	20	10961
2019	5	05/27/2019 10:07 PM	05/28/2019 3:00 AM	4 Hours, 53 Minutes	Dayton Power & Light Co	RF	Ohio: Montgomery County, Darke County, Mercer County, Miami County, Greene County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	347	70000

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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
2019	6	06/02/2019 6:19 PM	06/02/2019 8:43 PM	2 Hours, 24 Minutes	Pacific Gas & Electric Co	WECC	California:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Severe Weather/Transmission Interruption		
2019	6	06/06/2019 6:09 PM	06/06/2019 6:35 PM	0 Hours, 26 Minutes	CPS Energy	TRE	Texas: Bexar County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		55017
2019	6	06/07/2019 2:43 PM	06/07/2019 4:20 PM	1 Hours, 37 Minutes	American Electric Power - Texas	TRE	Texas: Pecos County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	8	1
2019	6	06/08/2019 3:50 PM	06/08/2019 7:40 PM	3 Hours, 50 Minutes	Southwestern Public Service	TRE	Texas: Potter County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	6	06/09/2019 2:45 PM	06/13/2019 10:30 PM	103 Hours, 45 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Collin County, Dallas County, Denton County, Palo Pinto County, Tarrant County, Ellis County, Williamson County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		558000
2019	6	06/12/2019 2:56 PM	06/12/2019 3:50 PM	0 Hours, 54 Minutes	Imperial Irrigation District	WECC	California: Imperial County, Riverside County;	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Generation Inadequacy	982	30907
2019	6	06/16/2019 2:00 AM	06/17/2019 11:59 PM	45 Hours, 59 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Tarrant County, Collin County, Denton County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		340000
2019	6	06/16/2019 3:25 AM	. .	. Hours, . Minutes	American Electric Power - (SPP Reliability Region)	SPP RE	Oklahoma:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		
2019	6	06/19/2019 10:30 PM	06/20/2019 7:00 PM	20 Hours, 30 Minutes	Entergy Corp	SPP RE	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		82045
2019	6	06/20/2019 4:11 PM	06/21/2019 12:45 PM	20 Hours, 34 Minutes	Dominion Energy VA	SERC	Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		60000
2019	6	06/21/2019 7:15 PM	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Kentucky: Tennessee:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Severe Weather		50000
2019	6	06/22/2019 8:46 PM	06/23/2019 12:30 AM	3 Hours, 44 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	115	34637
2019	6	06/23/2019 5:13 AM	06/23/2019 10:58 AM	5 Hours, 45 Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	47	16199
2019	6	06/23/2019 10:00 PM	06/25/2019 11:00 PM	49 Hours, 0 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Denton County, Ellis County, Collin County, Ellis County, Hood County, Johnson County, Kaufman County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		265000
2019	6	06/24/2019 5:30 AM	06/24/2019 8:45 AM	3 Hours, 15 Minutes	Entergy Corp	SPP RE	Arkansas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		56451
2019	6	06/26/2019 1:58 PM	06/26/2019 2:03 PM	0 Hours, 5 Minutes	Montana-Dakota Utilities Co	MRO	North Dakota: Williams County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	53	0
2019	6	06/28/2019 2:25 PM	. .	. Hours, . Minutes	Bonneville Power Administration	WECC	Idaho: Nez Perce County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	6	06/30/2019 3:15 PM	06/30/2019 4:15 PM	1 Hours, 0 Minutes	Long Island Power Authority	NPCC	New York: Nassau County, Suffolk County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	3189	52498

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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
2019	6	06/30/2019 3:30 PM	06/30/2019 8:30 PM	5 Hours, 0 Minutes	ComEd	SERC	Illinois: Cook County, DeKalb County, DuPage County, Grundy County, Iroquois County, Ford County, Lake County, Kendall County, Kankakee County, Kane County, Ogle County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		100000
2019	7	07/10/2019 12:10 PM	07/12/2019 12:30 PM	48 Hours, 20 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Collin County, Dallas County, Denton County, Hood County, Johnson County, Tarrant County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		57000
2019	7	07/11/2019 11:08 AM	07/11/2019 11:13 AM	0 Hours, 5 Minutes	Southwestern Public Service	TRE	Texas: Lynn County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	26	2043
2019	7	07/13/2019 7:15 AM	07/14/2019 5:00 PM	33 Hours, 45 Minutes	Entergy Corp	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		55730
2019	7	07/13/2019 6:47 PM	07/13/2019 11:37 PM	4 Hours, 50 Minutes	NYISO	NPCC	New York: New York County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Transmission Interruption	452	72669
2019	7	07/13/2019 11:55 PM	07/14/2019 1:00 PM	13 Hours, 5 Minutes	Cleco Power LLC	SERC	Louisiana: Acadia Parish, Avoyelles Parish, Catahoula Parish, Evangeline Parish, Grant Parish, Iberia Parish, LaSalle Parish, Natchitoches Parish, Rapides Parish, Sabine Parish, St. Landry Parish, St. Martin Parish, St. Mary Parish, St. Tammany Parish, Allen Parish, Beauregard Parish, Calcasieu Parish, Vermilion Parish, De Soto Parish, Jefferson Davis Parish, Red River Parish, Tangipahoa Parish, V	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		63000
2019	7	07/19/2019 7:00 PM	07/21/2019 8:00 PM	49 Hours, 0 Minutes	Detroit Edison Co	RF	Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		400000
2019	7	07/20/2019 3:00 AM	07/22/2019 7:00 AM	52 Hours, 0 Minutes	Consumers Energy Co	RF	Michigan: Kent County, Newaygo County, Mecosta County, Montcalm County, Isabella County, Ionia County, Allegan County, Barry County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		160000
2019	7	07/20/2019 11:55 AM	07/23/2019 12:00 AM	60 Hours, 5 Minutes	WEC Energy Group (WEPCO, WPSC, UMERC, WEP-MIUP)	RF	Wisconsin: Michigan:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	200	50000
2019	7	07/21/2019 11:00 PM	07/22/2019 8:54 PM	21 Hours, 54 Minutes	Consolidated Edison Co-NY Inc	NPCC	New York: Kings County, New York County, Queens County, Bronx County, Westchester County, Richmond County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	60	45000
2019	7	07/22/2019 4:00 PM	07/24/2019 11:00 PM	55 Hours, 0 Minutes	PECO Energy Co	RF	Pennsylvania: Bucks County, Delaware County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		165000
2019	7	07/22/2019 5:50 PM	07/25/2019 1:15 PM	67 Hours, 25 Minutes	Public Service Electric & Gas	RF	New Jersey: Gloucester County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	49	95600
2019	7	07/23/2019 3:39 PM	07/23/2019 7:00 PM	3 Hours, 21 Minutes	ISO New England	NPCC	Massachusetts:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	54	54535
2019	7	07/23/2019 11:55 PM	07/23/2019 11:56 PM	0 Hours, 1 Minutes	Nebraska Public Power District	MRO	Nebraska:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	7	07/23/2019 11:55 PM	07/24/2019 5:22 AM	5 Hours, 27 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	Nebraska: Scotts Bluff County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	7	07/30/2019 8:45 AM	07/30/2019 9:45 AM	1 Hours, 0 Minutes	City of Alexandria	SERC	Louisiana:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		13720
2019	8	08/02/2019 1:49 AM	08/02/2019 1:55 AM	0 Hours, 6 Minutes	Northern States Power Co	MRO	Minnesota: Chisago County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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
2019	8	08/05/2019 5:23 PM	08/06/2019 12:02 AM	6 Hours, 39 Minutes	Bonneville Power Administration	WECC	Oregon: Umatilla County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	66	
2019	8	08/08/2019 4:16 PM	08/08/2019 10:41 PM	6 Hours, 25 Minutes	American Electric Power - (RFC Reliability Region)	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		5600
2019	8	08/13/2019 10:00 AM	08/13/2019 11:00 AM	1 Hours, 0 Minutes	Rio Bravo Rocklin	WECC	California: Placer County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident.-Vandalism	0	0
2019	8	08/13/2019 3:10 PM	08/13/2019 5:30 PM	2 Hours, 20 Minutes	ERCOT	TRE	Texas: Williamson County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather		
2019	8	08/15/2019 8:30 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	150	
2019	8	08/15/2019 3:11 PM	08/15/2019 6:00 PM	2 Hours, 49 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather		
2019	8	08/15/2019 11:03 PM	08/16/2019 12:37 AM	1 Hours, 34 Minutes	Pacific Gas & Electric Co	WECC	California: Marin County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Distribution Interruption	80	61318
2019	8	08/18/2019 3:59 PM	08/18/2019 11:00 PM	7 Hours, 1 Minutes	Southwest Power Pool, Inc.	SPP RE	Louisiana: Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Transmission Interruption	271	86373
2019	8	08/18/2019 4:30 PM	08/18/2019 10:00 PM	5 Hours, 30 Minutes	East Texas Electric Coop, Inc	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Transmission Interruption/Distribution Interruption	259	61000
2019	8	08/18/2019 4:47 PM	08/18/2019 11:00 PM	6 Hours, 13 Minutes	American Electric Power - (SPP Reliability Region)	TRE	Texas:	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident-Distribution Interruption	752	86373
2019	8	08/26/2019 9:09 AM	08/26/2019 1:34 PM	4 Hours, 25 Minutes	Great River Energy	MRO	North Dakota:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	8	08/26/2019 7:00 PM	08/27/2019 3:00 AM	8 Hours, 0 Minutes	Southwest Power Pool, Inc.	SPP RE	Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption		95000
2019	8	08/26/2019 7:00 PM	08/29/2019 1:00 PM	66 Hours, 0 Minutes	Oklahoma Gas & Electric Co	SPP RE	Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		103779
2019	9	09/04/2019 2:30 PM	09/06/2019 6:00 PM	51 Hours, 30 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.-Severe Weather		
2019	9	09/05/2019 4:15 AM	09/05/2019 3:17 PM	11 Hours, 2 Minutes	Dominion Energy South Carolina	SERC	South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		172278
2019	9	09/05/2019 10:00 PM	09/06/2019 12:00 PM	14 Hours, 0 Minutes	North Carolina El Member Corp	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	3	2000
2019	9	09/05/2019 10:36 PM	09/06/2019 4:00 PM	17 Hours, 24 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		116000
2019	9	09/06/2019 8:20 AM	. .	. Hours, . Minutes	Dominion Energy VA	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		77000
2019	9	09/10/2019 9:22 PM	09/10/2019 9:23 PM	0 Hours, 1 Minutes	Pacificorp	WECC	Wyoming: Sweetwater County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	885	0
2019	9	09/11/2019 10:35 PM	09/11/2019 11:59 PM	1 Hours, 24 Minutes	Consumers Energy Co	RF	Michigan: Ionia County, Kent County, Barry County, Montcalm County, Allegan County, Ottawa County, Newaygo County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		54000
2019	9	09/19/2019 5:55 AM	09/19/2019 2:30 PM	8 Hours, 35 Minutes	Tucson Electric Power	WECC	Arizona: Pima 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, 2019

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
2019	9	09/25/2019 3:47 AM	09/25/2019 3:40 PM	11 Hours, 53 Minutes	Pacific Gas & Electric Co	WECC	California: Napa County, Nevada County, Placer County, Plumas County, Sonoma County, Butte County, Yuba County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	25	69524
2019	9	09/29/2019 7:38 AM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Alameda County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Distribution Interruption		50072
2019	10	10/04/2019 5:15 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
2019	10	10/06/2019 5:15 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
2019	10	10/06/2019 2:50 PM	10/06/2019 3:00 PM	0 Hours, 10 Minutes	American Electric Power - Texas	TRE	Texas: Hidalgo County, Cameron County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption		
2019	10	10/09/2019 12:27 AM	. .	. 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/Transmission Interruption	2400	737808
2019	10	10/12/2019 3:00 PM	10/12/2019 4:21 PM	1 Hours, 21 Minutes	American Electric Power - Texas	TRE	Texas:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	10	10/15/2019 3:19 AM	10/15/2019 6:38 AM	3 Hours, 19 Minutes	FirstEnergy Corp	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	10	10/17/2019 12:45 AM	10/19/2019 9:30 AM	56 Hours, 45 Minutes	ISO New England	NPCC	Connecticut: Rhode Island: Massachusetts: Vermont: New Hampshire: Maine:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		101683
2019	10	10/19/2019 5:57 AM	10/19/2019 1:58 PM	8 Hours, 1 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	South Dakota: Codington County; Nebraska: Scotts Bluff County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	10	10/20/2019 10:15 PM	10/25/2019 2:00 AM	99 Hours, 45 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Cass County, Cameron County, Collin County, Dallas County, Ellis County, Erath County, Hunt County, Kaufman County, Lamar County, Panola County, Rains County, Rockwall County, Rusk County, Tarrant County, Van Zandt County, Wood County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		400000
2019	10	10/23/2019 2:36 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/Transmission Interruption		50000
2019	10	10/24/2019 5:15 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
2019	10	10/24/2019 5:02 PM	10/24/2019 5:09 PM	0 Hours, 7 Minutes	FirstEnergy Corp	RF	Ohio: Lorain County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	10	10/26/2019 5:15 AM	10/26/2019 5:31 PM	12 Hours, 16 Minutes	Entergy Corp	SERC	Louisiana:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		82124
2019	10	10/26/2019 6:00 PM	. .	. Hours, . Minutes	Tennessee Valley Authority	SERC	Tennessee:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		70000
2019	10	10/26/2019 6:20 PM	10/31/2019 1:27 AM	103 Hours, 7 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	3190	972000
2019	10	10/30/2019 6:32 AM	11/01/2019 1:29 PM	54 Hours, 57 Minutes	Southern California Edison Co	WECC	California: Los Angeles County, Orange County, Riverside County, San Bernardino County, Ventura County, Kern County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption	285	114402
2019	10	10/31/2019 10:00 PM	. .	. Hours, . Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption		53943
2019	11	11/01/2019 1:00 AM	11/03/2019 1:00 PM	60 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		8000

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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
2019	11	11/01/2019 1:15 AM	11/02/2019 9:30 PM	44 Hours, 15 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: Rhode Island: New Hampshire: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		80066
2019	11	11/01/2019 2:41 AM	. .	. Hours, . Minutes	New York State Electric & Gas	NPCC	New York: Broome County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		66325
2019	11	11/03/2019 10:17 PM	11/04/2019 11:10 AM	12 Hours, 53 Minutes	Northern States Power Co	MRO	Minnesota: Sherburne County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	11	11/05/2019 8:56 AM	11/05/2019 11:51 AM	2 Hours, 55 Minutes	JEA	FRCC	Florida: Duval County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	1500	
2019	11	11/08/2019 5:50 AM	11/08/2019 6:10 AM	0 Hours, 20 Minutes	Pacificorp	WECC	Utah: California: Oregon: Wyoming:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-System Operations	72	
2019	11	11/20/2019 9:49 AM	11/20/2019 3:20 PM	5 Hours, 31 Minutes	Pacific Gas & Electric Co	WECC	California: Colusa County, Lake County, Mendocino County, Napa County, Solano County, Sonoma County, Yolo County, Shasta County, Tehama County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption	178	54000
2019	11	11/26/2019 6:07 PM	11/27/2019 12:27 PM	18 Hours, 20 Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	300	93000
2019	11	11/27/2019 12:00 PM	11/30/2019 2:00 AM	62 Hours, 0 Minutes	Detroit Edison Co	RF	Michigan: Tuscola County, Sanilac County, Huron County, St. Clair County, Macomb County, Oakland County, Wayne County, Livingston County, Washtenaw County, Monroe County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	30	107000
2019	12	12/11/2019 1:27 PM	12/11/2019 1:51 PM	0 Hours, 24 Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	North Dakota: Burleigh County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	18	1
2019	12	12/16/2019 11:55 PM	12/17/2019 1:47 AM	1 Hours, 52 Minutes	American Electric Power - Texas	TRE	Texas:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	12	12/31/2019 11:03 AM	01/01/2020 10:59 AM	23 Hours, 56 Minutes	American Electric Power - Texas	TRE	Texas: Nueces County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.-Transmission Interruption	25	0

Note: Customers affected are estimates and are preliminary.Source: Form OE-417, 'Electric Emergency Incident and Disturbance Report.'

Appendix C

Technical notes

This appendix describes how the U. S. Energy Information Administration (EIA) collects, estimates, and reports electric power data in the EPM.

Data quality

The EPM is prepared by the Office of Electricity, Renewables & Uranium Statistics (ERUS), Energy Information Administration (EIA), U. S. Department of Energy. Quality statistics begin with the collection of the correct data. To assure this, ERUS performs routine reviews of the data collected and the forms on which it is collected. Additionally, to assure that the data are collected from the correct parties, ERUS routinely reviews the frames for each data collection.

Automatic, computerized verification of keyed input, review by subject matter specialists, and follow-up with nonrespondents assure quality statistics. To ensure the quality standards established by the EIA, formulas that use the past history of data values in the database have been designed and implemented to check data input for errors automatically. Data values that fall outside the ranges prescribed in the formulas are verified by telephoning respondents to resolve any discrepancies. All survey nonrespondents are identified and contacted.

Reliability of data

There are two types of errors possible in an estimate based on a sample survey: sampling and non-sampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Non-sampling errors can be attributed to many sources in the collection and processing of data. The accuracy of survey results is determined by the joint effects of sampling and non-sampling errors. Monthly sample survey data have both sampling and non-sampling error. Annual survey data are collected by a census and are not subject to sampling error.

Non-sampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases in the sample (i.e., nonresponse); (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. Note that for the cutoff sampling and model-based regression (ratio) estimation that we use, data 'missing' due to nonresponse, and data 'missing' due to being out-of-sample are treated in the same manner. Therefore missing data may be considered to result in sampling error, and variance estimates reflect all missing data.

Although no direct measurement of the biases due to non-sampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. See the Data Processing and Data System Editing section for each EIA form for an in-depth discussion of how the sampling and non-sampling errors are handled in each case.

Relative Standard Error: The relative standard error (RSE) statistic, usually given as a percentage, describes the magnitude of sampling error that might reasonably be incurred. The RSE is the square root of the estimated variance, divided by the variable of interest. The variable of interest may be the ratio of two variables, or a single variable.

The sampling error may be less than the non-sampling error. In fact, large RSE estimates found in preliminary work with these data have often indicated non-sampling errors, which were then identified and corrected. Non-sampling errors may be attributed to many sources, including the response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding data obtained, and other errors of collection, response, or coverage. These non-sampling errors also occur in complete censuses.

Using the Central Limit Theorem, which applies to sums and means such as are applicable here, there is approxi-mately a 68 percent chance that the true total or mean is within one RSE of the estimated total or mean. Note that reported RSEs are always estimates themselves, and are usually, as here, reported as percentages. As an example, suppose that a net generation from coal value is estimated to be 1,507 million kilowatthours with an estimated RSE of 4.9 percent. This means that, ignoring any non-sampling error, there is approximately a 68 percent chance that the true million kilowatthour value is within approximately 4.9 percent of 1,507 million kilowatthours (that is, between 1,433 and 1,581 million kilowatthours). Also under the Central Limit Theorem, there is approxi-mately a 95 percent chance that the true mean or total is within 2 RSEs of the estimated mean or total.

Note that there are times when a model may not apply, such as in the case of a substantial reclassification of sales, when the relationship between the variable of interest and the regressor data does not hold. In such a case, the new information may represent only itself, and such numbers are added to model results when estimating totals. Further, there are times when sample data may be known to be in error, or are not reported. Such cases are treated as if they were never part of the model-based sample, and values are imputed. Experiments were done to see if nonresponse should be treated differently, but it was decided to treat those cases the same as out-of-sample cases.

Relative Standard Error With Respect to a Superpopulation: The RSESP statistic is similar to the RSE (described above). Like the RSE, it is a statistic designed to estimate the variability of data and is usually given as a percentage. However, where the RSE is only designed to estimate the magnitude of sampling error, the RSESP more fully reflects the impact of variability from sampling and non-sampling errors. This is a more complete measure than RSE in that it can measure statistical variability in a complete census in addition to a sample21,24. In addition to being a measure of data variability, the RSESP can also be useful in comparing different models that are applied to the same set of data22. This capability is used to test different regression models for imputation and prediction. This testing may include considerations such as comparing different regressors, the comparative reliability of different monthly samples, or the use of different geographical strata or groupings for a given model. For testing purposes, ERUS typically uses recent historical data that have been finalized. Typically, time-series graphics showing two or more models or samples are generated showing the RSESP values over time. In selecting models, consideration is given to total survey error as well as any apparent differences in robustness.

Imputation: For monthly data, if the reported values appeared to be in error and the data issue could not be resolved with the respondent, or if the facility was a nonrespondent, a regression methodology is used to impute for the facility. The same procedure is used to estimate ("predict") data for facilities not in the monthly sample. The regression methodology relies on other data to make estimates for erroneous or missing responses.

Estimation for missing monthly data is accomplished by relating the observed data each month to one or more other data elements (regressors) for which we generally have an annual census. Each year, when new annual regressor data are available, recent monthly relationships are updated, causing slight revisions to estimated monthly results. These revisions are made as soon as the annual data are released.

The basic technique employed is described in the paper "Model-Based Sampling and Inference16," on the EIA website. Additional references can be found on the InterStat website (http://interstat.statjournals.net/). The basis for the current methodology involves a 'borrowing of strength' technique for small domains.

Data revision procedure

ERUS has adopted the following policy with respect to the revision and correction of recurrent data in energy publications:

- Annual survey data are disseminated either as preliminary or final when first appearing in a data product. Data initially released as preliminary will be so noted in the data product. These data are typically released as final by the next dissemination of the same product; however, if final data are available at an earlier interval they may be released in another product.
- All monthly survey data are first disseminated as preliminary. These data are revised after the prior year's data are finalized and are disseminated as revised preliminary. No revisions are made to the published data before this or subsequent to these data being finalized unless significant errors are discovered.
- After data are disseminated as final, further revisions will be considered if they make a difference of 1 percent or greater at the national level. Revisions for differences that do not meet the 1 percent or greater threshold will be determined by the Office Director. In either case, the proposed revision will be subject to the EIA revision policy concerning how it affects other EIA products.
- The magnitudes of changes due to revisions experienced in the past will be included periodically in the data products, so that the reader can assess the accuracy of the data.

Data sources for Electric Power Monthly

Data published in the EPM are compiled from the following sources:

- Form EIA-923, "Power Plant Operations Report,"
- Form EIA 826, "Monthly Electric Utility Sales and Revenues with State Distributions Report,"
- Form EIA 860, "Annual Electric Generator Report,"
- Form EIA-860M, "Monthly Update to the Annual Electric Generator Report," and

- Form EIA 861, "Annual Electric Power Industry Report."

For access to these forms and their instructions, please see:
http://www.eia.gov/cneaf/electricity/page/forms.html.

In addition to the above-named forms, the historical data published in the EPM for periods prior to 2008 are compiled from the following sources:

- FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants,"
- Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report,"
- Form EIA-759, "Monthly Power Plant Report,"
- Form EIA-860A, "Annual Electric Generator Report–Utility,"
- Form EIA-860B, "Annual Electric Generator Report–Nonutility,"
- Form EIA-900, "Monthly Nonutility Power Report,"
- Form EIA-906, "Power Plant Report," and
- Form EIA-920, "Combined Heat and Power Plant Report."

See Appendix A of the historical Electric Power Annual reports to find descriptions of forms that are no longer in use. The publications can be found from the top of the current EPA under previous issues: http://www.eia.gov/electricity/annual.

Rounding rules for data: To round a number to n digits (decimal places), add one unit to the nth digit if the (n+1) digit is 5 or larger and keep the nth digit unchanged if the (n+1) digit is less than 5. The symbol for a number rounded to zero is (*).

Percent difference: The following formula is used to calculate percent differences:

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

where $x\ (t_1)$ and $x\ (t_2)$ denote the quantity at year t_1 and subsequent year t_2.

Meanings of symbols appearing in tables: The following symbols have the meaning described below:

P Indicates a preliminary value.

NM Data value is not meaningful, either (1) when compared to the same value for the previous time period, or (2) when a data value is not meaningful due to having a high Relative Standard Error (RSE).

Form EIA-826

The Form EIA 826, "Monthly Electric Utility Sales and Revenues with State Distributions Report," is a monthly collection of data from a sample of approximately 500 of the largest electric utilities (primarily investor owned and publicly owned) as well as a census of energy service providers with sales to ultimate consumers in deregulated States. Form EIA-861, with approximately 3,300 respondents, serves as a frame from which the Form 826 sample is drawn. Based on this sample, a model is used to estimate for the entire universe of U.S. electric utilities.

Instrument and design history: The collection of electric power sales data and related information began in the early 1940's and was established as FPC Form 5 by FPC Order 141 in 1947. In 1980, the report was revised with only selected income items remaining and became the FERC Form 5. The Form EIA 826, "Electric Utility Company Monthly Statement," replaced the FERC Form 5 in January 1983. In January 1987, the "Electric Utility Company Monthly Statement" was changed to the "Monthly Electric Utility Sales and Revenue Report with State Distributions." The title was changed again in January 2002 to "Monthly Electric Utility Sales and Revenues with State Distributions Report" to become consistent with other EIA report titles. The Form EIA 826 was revised in January 1990, and some data elements were eliminated.

In 1993, EIA for the first time used a model sample for the Form EIA 826. A stratified random sample, employing auxiliary data, was used for each of the four previous years. The sample for the Form EIA 826 was designed to obtain estimates of electricity sales and average price of electricity to ultimate consumers at the State level by end use sector.

Starting with data for January 2001, the restructuring of the electric power industry was taken into account by forming three schedules on the Form EIA-826. Schedule 1, Part A is for full service utilities that operate as in the past. Schedule 1, Part B is for electric service providers only, and Schedule 1, Part C is for those utilities providing distribution service for those on Schedule 1, Part B. In addition, Schedule 1 Part D is for those energy providers to ultimate consumers or power marketers that provide bundled service. Also, the Form EIA-826 frame was modified to include all investor-owned electric utilities and a sample of companies from other ownership classes. A new method of estimation was implemented at this same time. (See EPM April 2001, p.1.)

With the October 2004 issue of the EPM, EIA published for the first time preliminary electricity sales data for the Transportation Sector. These data are for electricity delivered to and consumed by local, regional, and metropolitan transportation systems. The data being published for the first time in the October EPM included July 2004 data as well as year-to-date. EIA's efforts to develop these new data have identified anomalies in several States and the District of Columbia. Some of these anomalies are caused by issues such as: 1) Some respondents have classified themselves as outside the realm of the survey. The Form EIA-826 collects data from those respondents providing electricity and other services to the ultimate end users. EIA has experienced specific situations where, although the respondents' customers are the ultimate end users, particular end users qualify under wholesale rate schedules. 2) The Form EIA-826 is a cutoff sample and not intended to be a census.

Beginning with 2008 data and some annual 2007 data, the Form EIA-923 replaced Forms EIA-906, EIA-920, EIA-423, and FERC 423. In addition, several sections of the discontinued Form EIA-767 have been included in either the Form EIA-860 or Form EIA-923. See the following link for a detailed explanation. http://www.eia.gov/cneaf/electricity/2008forms/consolidate.html

The legislative authority to collect these data is defined in the Federal Energy Administration Act of 1974 (Public Law 93-275, Sec. 13(b), 5(a), 5(b), 52).

Data processing and data system editing: Monthly Form EIA-826 submission is available via an Internet Data Collection (IDC) system. The completed data are due to EIA by the last calendar day of the month following the reporting month. Nonrespondents are contacted to obtain the data. The data are edited and additional checks are completed. Following verification, imputation is run, and tables and text of the aggregated data are produced for inclusion in the EPM.

Imputation: Regression prediction, or imputation, is done for entities not in the monthly sample and for any nonrespondents. Regressor data for Schedule 1, Part A is the average monthly sales or revenue from the most recent finalized data from survey Form EIA-861. Beginning with January 2008 data and the finalized 2007 data, the regressor data for Schedule 1 Parts B and C is the prior month's data.

Formulas and methodologies: The Form EIA 826 data are collected by end-use sector (residential, commercial, industrial, and transportation) and State. Form EIA 861 data are used as the frame from which the sample is selected and in some instances also as regressor data. Updates are made to the frame to reflect mergers that affect data processing.

With the revised definitions for the commercial and industrial sectors to include all data previously reported as 'other' data except transportation, and a separate transportation sector, all responses that would formerly have been reported under the "other" sector are now to be reported under one of the sectors that currently exist. This means there is probably a lower correlation, in general, between, say, commercial Form EIA-826 data for 2004 and commercial Form EIA-861 data for 2003 than there was between commercial Form EIA-826 data for 2003 and commercial Form EIA-861 data for 2002 or earlier years, although commercial and industrial definitions have always been somewhat nebulous due to power companies not having complete information on all customers.

Data submitted for January 2004 represent the first time respondents were to provide data specifically for the transportation end-use sector.

During 2003 transportation data were collected annually through Form EIA-861. Beginning in 2004 the transportation data were collected on a monthly basis via Form EIA-826. In order to develop an estimate of the monthly transportation data for 2003, values for both sales of electricity to ultimate customers and revenue from sales of electricity to ultimate customers were estimated using the 2004 monthly profile for the sales and revenues from the data collected via Form EIA-826. All monthly non-transportation data for 2003 (i.e. street lighting, etc.), which were previously reported in the "other" end-use sector on the Form EIA-826 have been prorated into the Commercial and Industrial end-use sectors based on the 2003 Form EIA-861 profile.

A monthly distribution factor was developed for the monthly data collected in 2004 (for the months of January through November). The transportation sales and revenues for December 2004 were assumed to be equivalent to the transportation sales and revenues for November 2004. The monthly distribution factors for January through November were applied to the annual values for transportation sales and revenues collected via Form EIA-861 to develop corresponding 2003 monthly values. The eleven month estimated totals from January through November 2003 were subtracted from the annual values obtained from Form EIA-861 in order to obtain the December 2003 values.

Data from the Form EIA-826 are used to determine estimates by sector at the State, Census division, and national level. State level sales and revenues estimates are first calculated. Then the ratio of revenue divided by sales is calculated to estimate the price of electricity to ultimate consumers at the State level. The estimates are accumulated separately to produce the Census division and U.S. level estimates[1].

Some electric utilities provide service in more than one State. To facilitate the estimation, the State service area is actually used as the sampling unit. For each State served by each utility, there is a utility State part, or "State service area." This approach allows for an explicit calculation of estimates for sales, revenue, and average price of electricity to ultimate consumers by end use sector at State, Census division, and national level. Estimation procedures include imputation to account for nonresponse. Non-sampling error must also be considered. The non-sampling error is not estimated directly, although attempts are made to minimize the non-sampling error.

Average price of electricity to ultimate consumers represents the cost per unit of electricity sold and is calculated by dividing electric revenue from ultimate consumers by the corresponding sales of electricity. The average price of electricity to ultimate consumers is calculated for all consumers and for each end-use sector.

The electric revenue used to calculate the average price of electricity to ultimate consumers is the operating revenue reported by the electric utility. Operating revenue includes energy charges, demand charges, consumer service charges, environmental surcharges, fuel adjustments, and other miscellaneous charges. Electric utility operating revenues also include State and Federal income taxes and taxes other than income taxes paid by the utility.

The average price of electricity to ultimate consumers reported in this publication by sector represents a weighted average of consumer revenue and sales within sectors and across sectors for all consumers, and does not reflect the per kWh rate charged by the electric utility to the individual consumers. Electric utilities typically employ a number of rate schedules within a single sector. These alternative rate schedules reflect the varying consumption levels and patterns of consumers and their associated impact on the costs to the electric utility for providing electrical service.

Adjusting monthly data to annual data: As a final adjustment based on our most complete data, use is made of final Form EIA-861 data, when available. The annual totals for Form EIA-826 data by State and end-use sector are compared to the corresponding Form EIA-861 values for sales and revenue. The ratio of these two values in each case is then used to adjust each corresponding monthly value.

Sensitive data: Most of the data collected on the Form EIA-826 are not considered business sensitive. However, revenue, sales, and customer data collected from energy service providers (Schedule 1, Part B), which do not also provide energy delivery, are considered business sensitive and must adhere to EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45Federal Register 59812 (1980)).

Form EIA-860

The Form EIA 860, "Annual Electric Generator Report," is a mandatory annual census of all existing and planned electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts. The survey is used to collect data on existing power plants and 10 year plans for constructing new plants, as well as generating unit additions, modifications, and retirements in existing plants. Data on the survey are collected at the generator level. Certain power plant environmental-related data are collected at the boiler level. These data include environmental equipment design parameters, boiler air emission standards, and boiler emission controls The Form EIA-860 is made available in January to collect data related to the previous year.

Instrument and design history: The Form EIA-860 was originally implemented in January 1985 to collect data as of year-end 1984. It was preceded by several Federal Power Commission (FPC) forms including the FPC Form 4, Form 12 and 12E, Form 67, and Form EIA-411. In January 1999, the Form EIA-860 was renamed the Form EIA-860A, "Annual Electric Generator Report – Utility" and was implemented to collect data from electric utilities as of January 1, 1999.

In 1989, the Form EIA-867, "Annual Nonutility Power Producer Report," was initiated to collect plant data on unregulated entities with a total generator nameplate capacity of 5 or more megawatts. In 1992, the reporting threshold of the Form EIA-867 was lowered to include all facilities with a combined nameplate capacity of 1 or more megawatts. Previously, data were collected every 3 years from facilities with a nameplate capacity between 1 and 5 megawatts. In 1998, the Form EIA-867, was renamed Form EIA-860B, "Annual Electric Generator Report – Nonutility." The Form EIA-860B was a mandatory survey of all existing and planned nonutility electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts.

Beginning with data collected for the year 2001, the infrastructure data collected on the Form EIA-860A and the Form EIA-860B were combined into the new Form EIA-860 and the monthly and annual versions of the Form EIA-906.

Starting with 2007, design parameters data formerly collected on Form EIA-767 were collected on Form EIA-860. These include design parameters associated with certain steam-electric plants' boilers, cooling systems, flue gas particulate collectors, flue gas desulfurization units, and stacks and flues.

The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

Estimation of form eia-860 data: EIA received forms from all 18,151 existing generators in the 2010 Form EIA-860 frame, so no imputation was required.

Prime Movers: The Form EIA-860 sometimes represents a generator's prime mover by using the abbreviations in the table below.

Prime Mover Code	Prime Mover Description
BA	Energy Storage, Battery
CE	Energy Storage, Compressed Air
CP	Energy Storage, Concentrated Solar Power
FW	Energy Storage, Flywheel
PS	Energy Storage, Reversible Hydraulic Turbine (Pumped Storage)
ES	Energy Storage, Other
ST	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)
GT	Combustion (Gas) Turbine (including jet engine design)
IC	Internal Combustion Engine (diesel, piston, reciprocating)
CA	Combined Cycle Steam Part
CT	Combined Cycle Combustion Turbine Part
CS	Combined Cycle Single Shaft
CC	Combined Cycle Total Unit
HA	Hydrokinetic, Axial Flow Turbine
HB	Hydrokinetic, Wave Buoy
HK	Hydrokinetic, Other
HY	Hydroelectric Turbine (including turbines associated with delivery of water by pipeline)
BT	Turbines Used in a Binary Cycle (including those used for geothermal applications)
PV	Photovoltaic
WT	Wind Turbine, Onshore
WS	Wind Turbine, Offshore
FC	Fuel Cell
OT	Other

Energy Sources: The Form EIA-860 sometimes represents the energy sources associated with generators by using the abbreviations and/or groupings in the table below.

Energy Source Grouping	Energy Source Code	Energy Source Description
Coal	ANT	Anthracite Coal
	BIT	Bituminous Coal
	LIG	Lignite Coal
	SUB	Subbituminous Coal
	SGC	Coal-Derived Synthesis Gas
	WC	Waste/Other Coal (including anthracite culm, bituminous gob, fine coal, lignite waste, waste coal)
Petroleum Products	DFO	Distillate Fuel Oil (including diesel, No. 1, No. 2, and No. 4 fuel oils)
	JF	Jet Fuel
	KER	Kerosene
	PC	Petroleum Coke
	PG	Gaseous Propane
	RFO	Residual Fuel Oil (including No. 5, and No. 6 fuel oils, and bunker C fuel oil)
	SG	Synthesis Gas from Petroleum Coke
	WO	Waste/Other Oil (including crude oil, liquid butane, liquid propane, naphtha, oil waste, re-refined motor oil, sludge oil, tar oil, or other petroleum-based liquid wastes)
Natural Gas and Other Gases	BFG	Blast Furnace Gas
	NG	Natural Gas
	OG	Other Gas
Nuclear	NUC	Nuclear (including Uranium, Plutonium, and Thorium)
Hydroelectric Conventional	WAT (Prime Mover = HY)	Water at a Conventional Hydroelectric Turbine, and water used in Wave Buoy Hydrokinetic Technology, Current Hydrokinetic Technology, and Tidal Hydrokinetic Technology
Hydroelectric Pumped Storage	WAT (Prime Mover = PS)	Pumping Energy for Reversible (Pumped Storage) Hydroelectric Turbine
Wood and Wood-Derived Fuels	WDS	Wood/Wood Waste Solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids)
	WDL	Wood Waste Liquids (excluding Black Liquor but including red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids)
	BLQ	Black Liquor
Other Biomass	AB	Agricultural By-Products
	MSW	Municipal Solid Waste
	OBG	Other Biomass Gas (including digester gas, methane, and other biomass gases)
	OBL	Other Biomass Liquids
	OBS	Other Biomass Solids
	LFG	Landfill Gas
	SLW	Sludge Waste
Other Renewable Energy Sources	SUN	Solar (including solar thermal)
	WND	Wind
	GEO	Geothermal
Other Energy Sources	PUR	Purchased Steam
	WH	Waste heat not directly attributed to a fuel source
	TDF	Tire-Derived Fuels
	MWH	Electricity used for energy storage
	OTH	Other

Sensitive data: The tested heat rate data collected on the Form EIA-860 are considered business sensitive.

Form EIA-860M

The Form EIA 860M, "Monthly Update to the Annual Electric Generator Report," is a mandatory monthly survey that collects data on the status of proposed new generators or changes to existing generators for plants that report on Form EIA-860.

The Form EIA-860M has a rolling frame based upon planned changes to capacity as reported on the previous Form EIA-860. Respondents are added to the frame 12 months prior to the expected effective date for all new units or expected retirement date for existing units. For all other types of capacity changes (including retirements, uprates, derates, repowering, or other modifications), respondents are added 1 month prior to the anticipated modification change date. Respondents are removed from the frame at the completion of the changes or if the change date is moved back so that the plant no longer qualifies to be in the frame. Typically, 150 to 200 utilities per month are required to report for 175 to 250 plants (including 250 to 400 generating units) on this form. The unit characteristics of interest are changes to the previously reported planned operating month and year, prime mover type, capacity, and energy sources.

Instrument and design history: The data collected on Form EIA-860M was originally collected via phone calls at the end of each month. During 2005, the Form EIA-860M was introduced as a mandatory form using the Internet Data Collection (IDC) system.

The legislative authority to collect these data is defined in the Federal Energy Administration Act of 1974 (Public Law 93-275, Sec. 13(b), 5(a), 5(b), 52).

Data processing and data system editing: Approximately 150 to 200 utilities are requested to provide data each month on the Form EIA 860M. These data are collected via the IDC system and automatically checked for certain errors. Most of the quality assurance issues are addressed by the respondents as part of the automatic edit check process. In some cases, respondents are subsequently contacted about their explanatory overrides to the edit checks.

Sensitive data: Data collected on the Form EIA-860M are not considered to be sensitive.

Form EIA-861

The Form EIA 861, "Annual Electric Power Industry Report," is a mandatory census of electric power industry participants in the United States. The survey is used to collect information on power sales and revenue data from approximately 3,300 respondents. About 3,200 are electric utilities and the remainder are nontraditional utilities such as energy service providers or the unregulated subsidiaries of electric utilities and power marketers.

Instrument and design history: The Form EIA 861 was implemented in January 1985 for collection of data as of year end 1984. The Federal Energy Administration Act of 1974 (Public Law 93 275) defines the legislative authority to collect these data.

Data processing and data system editing: The Form EIA 861 is made available to the respondents in January of each year to collect data as of the end of the preceding calendar year. The data are edited when entered into the interactive on line system. Internal edit checks are per-formed to verify that current data total across and between schedules, and are comparable to data reported the previous year. Edit checks are also performed to compare data reported on the Form EIA 861 and similar data reported on the Form EIA 826. Respondents are telephoned to obtain clarification of reported data and to obtain missing data.

Data for the Form EIA 861 are collected at the owner level from all electric utilities including energy service providers in the United States, its territories, and Puerto Rico. Form EIA 861 data in this report are for the United States only.

Average price of electricity to ultimate consumers represents the cost per unit of electricity sold and is calculated by dividing electric revenue from ultimate consumers by the corresponding sales of electricity. The average price of electricity to ultimate consumers is calculated for all consumers and for each end-use sector.

The electric revenue used to calculate the average price of electricity to ultimate consumers is the operating revenue reported by the electric power industry participant. Operating revenue includes energy charges, demand charges, consumer service charges, environmental surcharges, fuel adjustments, and other miscellaneous charges. Electric power industry participant operating revenues also include State and Federal income taxes and other taxes paid by the utility.

The average price of electricity to ultimate consumers reported in this publication by sector represents a weighted average of consumer revenue and sales, and does not equal the per kWh rate charged by the electric power industry participant to the individual consumers. Electric utilities typically employ a number of rate schedules within a single sector. These alternative rate schedules reflect the varying consumption levels and patterns of consumers and their associated impact on the costs to the electric power industry participant for providing electrical service.

Sensitive data: Data collected on the Form EIA-861 are not considered to be sensitive.

Form EIA-923

Form EIA-923, “Power Plant Operations Report,” is a monthly collection of data on receipts and cost of fossil fuels, fuel stocks, generation, consumption of fuel for generation, and environmental data (e.g. emission controls and cooling systems). Data are collected from a monthly sample of approximately 1,900 plants, which includes a census of nuclear and pumped-storage hydroelectric plants. In addition approximately 4,050 plants, representing all other generators 1 MW or greater, are collected annually. In addition to electric power generating plants, respondents include fuel storage terminals without

generating capacity that receive shipments of fossil fuels for eventual use in electric power generation. The monthly data are due by the last day of the month following the reporting period.

Receipts of fossil fuels, fuel cost and quality information, and fuel stocks at the end of the reporting period are all reported at the plant level. Plants that burn organic fuels and have a steam turbine capacity of at least 10 megawatts report consumption at the boiler level and generation at the generator level. For all other plants, consumption is reported at the prime-mover level. For these plants, generation is reported either at the prime-mover level or, for noncombustible sources (e.g. wind, nuclear), at the prime-mover and energy source level. The source and disposition of electricity is reported annually for nonutilities at the plant level as is revenue from sales for resale. Environmental data are collected annually from facilities that have a steam turbine capacity of at least 10 megawatts.

Instrument and design history:

Receipts and cost and quality of fossil fuels
On July 7, 1972, the Federal Power Commission (FPC) issued Order Number 453 enacting the New Code of Federal Regulations, Section 141.61, legally creating the FPC Form 423. Originally, the form was used to collect data only on fossil steam plants, but was amended in 1974 to include data on internal-combustion and combustion-turbine units. The FERC Form 423 replaced the FPC Form 423 in January 1983. The FERC Form 423 eliminated peaking units, for which data were previously collected on the FPC Form 423. In addition, the generator nameplate capacity threshold was changed from 25 megawatts to 50 megawatts. This reduction in coverage eliminated approximately 50 utilities and 250 plants. All historical FPC Form 423 data in this publication were revised to reflect the new generator-nameplate- capacity threshold of 50 or more megawatts reported on the FERC Form 423. In January 1991, the collection of data on the FERC Form 423 was extended to include combined cycle units. Historical data have not been revised to include these units. Starting with the January 1993 data, the FERC began to collect the data directly from the respondents.

The Form EIA-423 was originally implemented in January 2002 to collect monthly cost and quality data for fossil fuel receipts from owners or operators of nonutility electricity generating plants. Due to the restructuring of the electric power industry, many plants which had historically submitted this information for utility plants on the FERC Form 423 (see above) were being transferred to the nonutility sector. As a result, a large percentage of fossil fuel receipts were no longer being reported. The Form EIA-423 was implemented to fill this void and to capture the data associated with existing non-regulated power producers. Its design closely followed that of the FERC Form 423.

Both the Form EIA-423 and FERC Form 423 were superseded by Schedule 2 of the Form EIA-923 in January of 2008. At the time, the Form EIA-923 maintained the 50-megawatt threshold for these data. In January 2013, the threshold was changed to 200 megawatts for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. The requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts.

Not all data are collected monthly on the Form EIA-923. Beginning with 2008 data, a sample of the respondents report monthly, with the remainder reporting annually. Until January 2013, monthly fuel receipts values for the annual surveys were imputed via regression. Prior to 2008, Schedule 2 annual data were not collected or imputed.

Generation, consumption, and stocks

The Bureau of Census and the U.S. Geological Survey collected, compiled, and published data on the electric power industry prior to 1936. After 1936, the Federal Power Commission (FPC) assumed all data collection and publication responsibilities for the electric power industry and implemented the Form FPC-4. The Federal Power Act, Section 311 and 312, and FPC Order 141 defined the legislative authority to collect power production data. The Form EIA-759 replaced the Form FPC-4 in January 1982.

In 1996, the Form EIA-900 was initiated to collect sales for resale data from unregulated entities14. In 1998, the form was modified to collect sales for resale, gross generation, and sales to end user data. In 1999, the form was modified to collect net generation, consumption, and ending stock data15. In 2000, the form was modified to include the production of useful thermal output data.

In January 2001, Form EIA-906 superseded Forms EIA-759 and EIA-900. In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906. The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

Forms EIA-906 and EIA-920 were superseded by survey Form EIA-923 beginning in January 2008 with the collection of annual 2007 data and monthly 2008 data.

Data processing and data system editing: Respondents are encouraged to enter data directly into a computerized database via the Internet Data Collection (IDC) system. A variety of automated quality control mechanisms are run during this process, such as range checks and comparisons with historical data. These edit checks are performed as the data are provided, and many problems that are encountered are resolved during the reporting process. Those plants that are unable to use the electronic reporting medium provide the data in hard copy, typically via fax. These data are manually entered into the computerized database. The data are subjected to the same edits as those that are electronically submitted.

If the reported data appear to be in error and the data issue cannot be resolved by follow up contact with the respondent, or if a facility is a nonrespondent, a regression methodology is used to impute for the facility. Beginning in January 2013, imputation is not performed for fuel receipts data reported on Schedule 2.

Imputation: For select survey data elements collected monthly, regression prediction, or imputation, is done for missing data, including non-sampled units and any non-respondents. For data collected annually, imputation is performed for non-respondents. For gross generation and total fuel

consumption, multiple regression is used for imputation (see discussion, above). Only approximately 0.02 percent of the national total generation for 2010 is imputed, although this will vary by State and energy source.

When gross generation is reported and net generation is not available, net generation is estimated by using a fixed ratio to gross generation by prime-mover type and installed environmental equipment. These ratios are:

Net Generation = (Factor) x Gross Generation
Prime Movers:
Combined Cycle Steam - 0.97
Combined Cycle Single Shaft - 0.97
Combined Cycle Combustion Turbine - 0.97
Compressed Air - 0.97
Fuel Cell - 0.99
Gas Turbine - 0.98
Hydroelectric Turbine - 0.99
Hydroelectric Pumped Storage - 0.99
Internal Combustion Engine - 0.98
Other - 0.97
Photovoltaic - 0.99
Steam Turbine - 0.97
Wind Turbine - 0.99
Environmental Equipment:
Flue Gas Desulfurization - 0.97
Flue Gas Particulate 0.99
All Others - 0.97

For stocks, a linear combination of the prior month's ending stocks value and the current month's consumption and receipts values are used.

Receipts of fossil fuels: Receipts data, including cost and quality of fuels, are collected at the plant level from selected electric generating plants and fossil-fuel storage terminals in the United States. These plants include independent power producers, electric utilities, and commercial and industrial combined heat and power producers. All plants with a total fossil-fueled nameplate capacity of 50 megawatts or more (excluding storage terminals, which do not produce electricity) were required to report receipts of fossil fuels. In January 2013, the threshold was changed to 200 megawatts for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. The requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The data on cost and quality of fuel shipments are used to produce aggregates and weighted averages for each fuel type at the state, Census division, and U.S. levels.

For coal, units for receipts are in tons and units for average heat contents (A) are in million Btu per ton. For petroleum, units for receipts are in barrels and units for average heat contents (A) are in million Btu per barrel.

For gas, units for receipts are in thousand cubic feet (Mcf) and units for average heat contents (A) are in million Btu per thousand cubic foot.

Power production, fuel stocks, and fuel consumption data: The Bureau of Census and the U.S. Geological Survey collected, compiled, and published data on the electric power industry prior to 1936. After 1936, the Federal Power Commission (FPC) assumed all data collection and publication responsibilities for the electric power industry and implemented the Form FPC-4. The Federal Power Act, Section 311 and 312, and FPC Order 141 defined the legislative authority to collect power production data. The Form EIA-759 replaced the Form FPC-4 in January 1982.

In 1996, the Form EIA-900 was initiated to collect sales for resale data from unregulated entities. In 1998, the form was modified to collect sales for resale, gross generation, and sales to end user data. In 1999, the form was modified to collect net generation, consumption, and ending stock data. In 2000, the form was modified to include the production of useful thermal output data.

In January 2001, Form EIA-906 superseded Forms EIA-759 and EIA-900. In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906. The Federal Energy Administration Act of 1974 (Public Law 93 275) defines the legislative authority to collect these data.

In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906.

In January 2008, Form EIA-923 superseded both the Forms EIA-906 and EIA-920 for the collection of these data.

Methodology to estimate biogenic and non-biogenic municipal solid waste[2]: Municipal solid waste (MSW) consumption for generation of electric power is split into its biogenic and non-biogenic components beginning with 2001 data by the following methodology:

The tonnage of MSW consumed is reported on the Form EIA-923. The composition of MSW and categorization of the components were obtained from the Environmental Protection Agency publication, *Municipal Solid Waste in the United States: 2005 Facts and Figures*. The Btu contents of the components of MSW were obtained from various sources.

The potential quantities of combustible MSW discards (which include all MSW material available for combustion with energy recovery, discards to landfill, and other disposal) were multiplied by their respective Btu contents. The EPA-based categories of MSW were then classified into renewable and non-renewable groupings. From this, EIA calculated how much of the energy potentially consumed from MSW was attributed to biogenic components and how much to non-biogenic components (see Tables 1 and 2, below). [3]

These values are used to allocate net generation published in the Electric Power Monthly generation tables. The tons of biogenic and non-biogenic components were estimated with the assumption that glass and metals were removed prior to combustion. The average Btu/ton for the biogenic and non-

biogenic components is estimated by dividing the total Btu consumption by the total tons. Published net generation attributed to biogenic MSW and non-biogenic MSW is classified under Other Renewables and Other, respectively.

Table 1. Btu consumption for biogenic and non-biogenic municipal solid waste (percent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Biogenic	57	56	55	55	56	57	55	54	51	50
Non-biogenic	43	44	45	45	44	43	46	46	49	50

Table 2. Tonnage consumption for biogenic and non-biogenic municipal solid waste (percent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Biogenic	77	77	76	76	75	67	65	65	64	64
Non-biogenic	23	23	24	24	25	34	35	35	36	36

Useful thermal output: With the implementation of the Form EIA-923, "Power Plant Operations Report," in 2008, combined heat and power (CHP) plants are required to report total fuel consumed and electric power generation. Beginning with the January 2008 data, EIA will estimate the allocation of the total fuel consumed at CHP plants between electric power generation and useful thermal output.

First, an efficiency factor is determined for each plant and prime mover type. Based on data for electric power generation and useful thermal output collected in 2003 (on Form EIA-906, "Power Plant Report") efficiency was calculated for each prime mover type at a plant. The efficiency factor is the total output in Btu, including electric power and useful thermal output (UTO), divided by the total input in Btu. Electric power is converted to Btu at 3,412 Btu per kilowatthour.

Second, to calculate the amount of fuel for electric power, the gross generation in Btu is multiplied by the efficiency factor. The fuel for UTO is the difference between the total fuel reported and the fuel for electric power generation. UTO is calculated by multiplying the fuel for UTO by the efficiency factor.

In addition, if the total fuel reported is less than the estimated fuel for electric power generation, then the fuel for electric power generation is equal to the total fuel consumed, and the UTO will be zero.

Conversion of petroleum coke to liquid petroleum: The quantity conversion is 5 barrels (of 42 U.S. gallons each) per short ton (2,000 pounds).

Conversion of propane gas to liquid petroleum: The quantity conversion is 1.53 Mcf (thousand cubic feet) per barrel (or 42 U.S. gallons each).

Conversion of synthesis gas from coal to coal: The quantity conversion is 98 Mcf (thousand cubic feet) per short ton (2,000 pounds).

Conversion of synthesis gas from petroleum coke to petroleum coke: The quantity conversion is 107.42 Mcf (thousand cubic feet) per short ton (2,000 pounds).

Issues within historical data series:

Receipts and cost and quality of fossil fuels
Values for receipts of natural gas for 2001 forward do not include blast furnace gas or other gas.

Historical data collected on FERC Form 423 and published by EIA have been reviewed for consistency between volumes and prices and for their consistency over time. However, these data were collected by FERC for regulatory rather than statistical and publication purposes. EIA did not attempt to resolve any late filing issues in the FERC Form 423 data. In 2003, EIA introduced a procedure to estimate for late or non-responding entities due to report on the FERC Form 423. Due to the introduction of this procedure, 2003 and later data cannot be directly compared to previous years' data. In January 2013, this estimation procedure was dropped.

Prior to 2008, regulated plants reported receipts data on the FERC Form 423. These plants, along with unregulated plants, now report receipts data on Schedule 2 of Form EIA-923. Because FERC issued waivers to the FERC Form 423 filing requirements to some plants who met certain criteria, and because not all types of generators were required to report (only steam turbines and combined-cycle units reported), a significant number of plants either did not submit fossil fuel receipts data or submitted only a portion of their fossil fuel receipts. Since Form EIA-923 does not have exemptions based on generator type or reporting waivers, receipts data from 2008 and later cannot be directly compared to previous years' data for the regulated sector. Furthermore, there may be a notable increase in fuel receipts beginning with January 2008 data.

Starting with the revised data for 2008, tables for total receipts begin to reflect estimation for all plants with capacity over 1 megawatt, to be consistent with other electric power data. Previous receipts data published have been a legacy of their original collection as information for a regulatory agency, not as a survey to provide more meaningful estimates of totals for statistical purposes. Totals appeared to become smaller as more electric production came from unregulated plants, until the Form EIA-423 was created to help fill that gap. As a further improvement, estimation of all receipts for the universe normally depicted in the EPM (i.e., 1 megawatt and above), with associated relative standard errors, provides a more complete assessment of the market.

Generation and consumption
Beginning in 2008, a new method of allocating fuel consumption between electric power generation and useful thermal output (UTO) was implemented. This new methodology evenly distributes a combined heat and power (CHP) plant's losses between the two output products (electric power and UTO). In the historical data, UTO was consistently assumed to be 80 percent efficient and all other losses at the plant were allocated to electric power. This change causes the fuel for electric power to be decreased while the fuel for UTO is increased as both are given the same efficiency. This results in the appearance of an increase in efficiency of production of electric power between periods.

Sensitive data: Most of the data collected on the Form EIA-923 are not considered business sensitive. However, the cost of fuel delivered to nonutilities, commodity cost of fossil fuels, and reported fuel stocks at the end of the reporting period are considered business sensitive and must adhere to EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45Federal Register 59812 (1980)).

Average Capacity Factors

This section describes the methodology for calculating capacity factors by fuel and technology type for operating electric power plants. Capacity factor is a measure (expressed as a percent) of how often an electric generator operates over a specific period of time, using a ratio of the actual output to the maximum possible output over that time period.

The capacity factor calculation only includes operating electric generators in the Electric Power Sector (sectors 1, 2 and 3) using the net generation reported on the Form EIA-923 and the net summer capacity reported on the Form EIA-860. The capacity factor for a particular fuel/technology type is given by:

$$CapacityFactor = \left(\frac{\sum_{x,m} Generation_{x,m}}{\sum_{x,m} Capacity_{x,m} * AvailableTime_{x,m}} \right)$$

Where x represents generators of that fuel/technology combination and m represents the period of time (month or year). Generation and capacity are specific to a generator, and the generator is categorized by its primary fuel type as reported on the EIA-860. All generation from that generator is included, regardless of other fuels consumed. Available time is also specific to the generator in order to account for differing online and retirement dates. Therefore, these published capacity factors will differ from a simple calculation using annual generation and capacity totals from the appropriate tables in this publication.

NERC classification

The Florida Reliability Coordinating Council (FRCC) separated itself from the Southeastern Electric Reliability Council (SERC) in the mid-1990s. In 1998, several utilities realigned from Southwest Power Pool (SPP) to SERC. Name changes altered both the Mid-Continent Area Power Pool (MAPP) to the Midwest Reliability Organization (MRO) and the Western Systems Coordinating Council (WSCC) to the Western Energy Coordinating Council (WECC). The MRO membership boundaries have altered over time, but WECC membership boundaries have not. The utilities in the associated regional entity identified as the Alaska System Coordination Council (ASCC) dropped their formal participation in NERC. Both the States of Alaska and Hawaii are not contiguous with the other continental States and have no electrical interconnections. At the close of calendar year 2005, the following reliability regional councils were dissolved: East Central Area Reliability Coordinating Agreement (ECAR), Mid-Atlantic Area Council (MAAC), and Mid-America Interconnected Network (MAIN).

On January 1, 2006, the ReliabilityFirst Corporation (RFC) came into existence as a new regional reliability council. Individual utility membership in the former ECAR, MAAC, and MAIN councils mostly shifted to RFC. However, adjustments in membership as utilities joined or left various reliability councils impacted MRO, SERC, and SPP. The Texas Regional Entity (TRE) was formed from a delegation of authority from NERC to handle the regional responsibilities of the Electric Reliability Council of Texas (ERCOT). The revised delegation agreements covering all the regions were approved by the Federal Energy Regulatory Commission on March 21, 2008. Reliability Councils that are unchanged include: Florida Reliability Coordinating Council (FRCC), Northeast Power Coordinating Council (NPCC), and the Western Energy Coordinating Council (WECC

The new NERC Regional Council names are as follows:

- Florida Reliability Coordinating Council (FRCC),
- Midwest Reliability Organization (MRO),
- Northeast Power Coordinating Council (NPCC),
- ReliabilityFirst Corporation (RFC),
- Southeastern Electric Reliability Council (SERC),
- Southwest Power Pool (SPP),
- Texas Regional Entity (TRE), and
- Western Energy Coordinating Council (WECC).

Business classification

Nonutility power producers consist of corporations, persons, agencies, authorities, or other legal entities that own or operate facilities for electric generation but are not electric utilities. This includes qualifying cogenerators, small power producer, and independent power producers. Furthermore, nonutility power producers do not have a designated franchised service area. In addition to entities whose primary business is the production and sale of electric power, entities with other primary business classifications can and do sell electric power. These can consist of manufacturing, agricultural, forestry, transportation, finance, service and administrative industries, based on the Office of Management and Budget's Standard Industrial Classification (SIC) Manual. In 1997, the SIC Manual name was changed to North American Industry Classification System (NAICS). The following is a list of the main classifications and the category of primary business activity within each classification.

Agriculture, Forestry, and Fishing

111 Agriculture production-crops
112 Agriculture production, livestock and animal specialties
113 Forestry
114 Fishing, hunting, and trapping
115 Agricultural services

Mining

211 Oil and gas extraction
2121 Coal mining
2122 Metal mining

2123 Mining and quarrying of nonmetallic minerals except fuels

Construction

23

Manufacturing

311 Food and kindred products
3122 Tobacco products
314 Textile and mill products
315 Apparel and other finished products made from fabrics and similar materials
316 Leather and leather products
321 Lumber and wood products, except furniture
322 Paper and allied products (other than 322122 or 32213)
322122 Paper mills, except building paper
32213 Paperboard mills
323 Printing and publishing
324 Petroleum refining and related industries (other than 32411)
32411 Petroleum refining
325 Chemicals and allied products (other than 325188, 325211, 32512, or 325311)
32512 Industrial organic chemicals
325188 Industrial Inorganic Chemicals
325211 Plastics materials and resins
325311 Nitrogenous fertilizers
326 Rubber and miscellaneous plastic products
327 Stone, clay, glass, and concrete products (other than 32731)
32731 Cement, hydraulic
331 Primary metal industries (other than 331111 or 331312)
331111 Blast furnaces and steel mills
331312 Primary aluminum
332 Fabricated metal products, except machinery and transportation equipment
333 Industrial and commercial equipment and components except computer equipment
3345 Measuring, analyzing, and controlling instruments, photographic, medical, and optical goods, watches and clocks
335 Electronic and other electrical equipment and components except computer equipment
336 Transportation equipment
337 Furniture and fixtures
339 Miscellaneous manufacturing industries

Transportation and Public Utilities

22 Electric, gas, and sanitary services
2212 Natural gas transmission
2213 Water supply
22131 Irrigation systems
22132 Sewerage systems
481 Transportation by air
482 Railroad transportation
483 Water transportation
484 Motor freight transportation and warehousing
485 Local and suburban transit and interurban highway passenger transport
486 Pipelines, except natural gas
487 Transportation services
491 United States Postal Service
513 Communications
562212 Refuse systems

Wholesale Trade

421 to 422

Retail Trade

441 to 454

Finance, Insurance, and Real Estate

521 to 533

Services

512 Motion pictures
514 Business services
514199 Miscellaneous services
541 Legal services
561 Engineering, accounting, research, management, and related services
611 Education services
622 Health services
624 Social services
712 Museums, art galleries, and botanical and zoological gardens
713 Amusement and recreation services
721 Hotels
811 Miscellaneous repair services
8111 Automotive repair, services, and parking
812 Personal services
813 Membership organizations
814 Private households

Public Administration

92

Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

Monthly generation from small scale PV solar resources is an estimation of the generation produced from PV solar resources and not the results of a data collection effort for generation directly, with the exception of "Third Party Owned" or (TPO) solar installations which has direct data collection. TPO data however is not comprehensive. TPOs do not operate in every state, TPO collected data is not a large portion of the estimated amount, and the data has been collected for limited period of time. The generation estimate is based on data collected for PV solar capacity.

Capacity of PV solar resources is collected directly from respondents. These data are collected on several EIA forms and from several types of respondents. Monthly data for net-metered PV solar capacity is reported on the Form EIA-826. Form EIA-826 is a cutoff sample drawn from the annual survey Form EIA-861 which collects this data from all respondents. Using data from both of these surveys we have a regression model to impute for the non-sampled monthly capacity.

The survey instruments collect solar net metering capacity from reporting utilities by state and customer class. There are four customer classes: residential, commercial, industrial and transportation. However, the estimation process included only the residential, commercial and industrial customers.[1] Data for these customer classes were further classified by U.S. Census Regions, to ensure adequate number of customer observations in for each estimation group.

Estimation Model: The total PV capacity reported by utilities in the annual EIA-861 survey is the single primary input (regressor) to the monthly estimation of PV capacity by state. The model tested for each Census Region was of the form:

$$y_{i_{2015,m}} = \beta_1 x_{i_{2013}} + w_i^{-1/2} e_i \text{ , where}$$

$x_{i_{2013}}$ is the i[th] utility's 2013 (or the last published year) solar PV capacity

$y_{i_{2015,m}}$ is the i[th] utility's month m, 2015 (or the current year) reported solar PV capacity

w_i is the weight factor, which is the inverse of $x_{i_{2013}}$

β_1 is effectively the growth rate of reported month m solar PV capacity

e_i is the error term

The model checks for outliers and removes them from the regression equation inputs. The model calculates RSEs by sector, state, census region, and US total. Once we have imputed for all of the monthly net-metered PV solar capacity we add to total net metered capacity, the PV solar capacity collected on the Form EIA-861 for distributed and dispersed resources that are not net metered.

We use a second model to estimate the generation using this capacity as an input. The original methodology was developed for the "Annual Energy Outlook" based on our "NEMS" modelled projections several years ago. The original method underwent a calibration project designed to develop PV production levels for the NEMS projections consistent with simulations of a National Renewable Energy Laboratory model called PVWatts, which is itself embedded in PC software under the umbrella of the NREL's System Advisor Model (SAM).

The PVWatts simulations require, panel azimuth orientations and tilts, something that the NEMS projections do not include. Call the combinations of azimuths and tilts "orientations." The orientation and solar insolation (specific to a location) have a direct effect on the PV production level. The calibration project selected the 100 largest population Metropolitan Statistical Areas (MSAs) and relied on weights derived from orientation data from California Solar Initiative dataset to develop typical outputs for each of the 100 MSAs. It then was expanded from an annual estimate to a monthly estimate. A further description of this model is located here. A listing of the MSAs are included in Appendix 1.

Using Form EIA-861 data for service territories, which lists the counties that each electric distribution company (EDC) provides service, and NREL solar insolation data by county a simple average of insolation values by EDC is calculated.

Using the estimation model, we produce by utility, by state and by sector an estimate of generation. All the utilities'' capacity and generation estimates are summed by state and sector and a KWh/KW rate by state and sector is calculated.

Capacity from the Form EIA-860 that is net metered is subtracted from the total capacity by state and sector as well as the capacity reported on the EIA-826 from TPOs, resulting in a new "net" capacity amount. This capacity amount is multiplied by the KWh/KW rate to produce the non-TPO generation estimate and then it is added to the TPO reported sales to ultimate customers from the EIA-826 to obtain a final estimate for generation and a blended KWh/KW rate is calculated. The estimate for generation is aggregated by US census regions and US totals. The RSEs for capacity are checked for level of error and if they pass, the summary data by state, US census region and US total are reported in the EPM.

Appendix 2 contains a flow diagram of the data inputs, data quality control checks and data analysis required to perform this estimation.

Appendix 1- MSAs

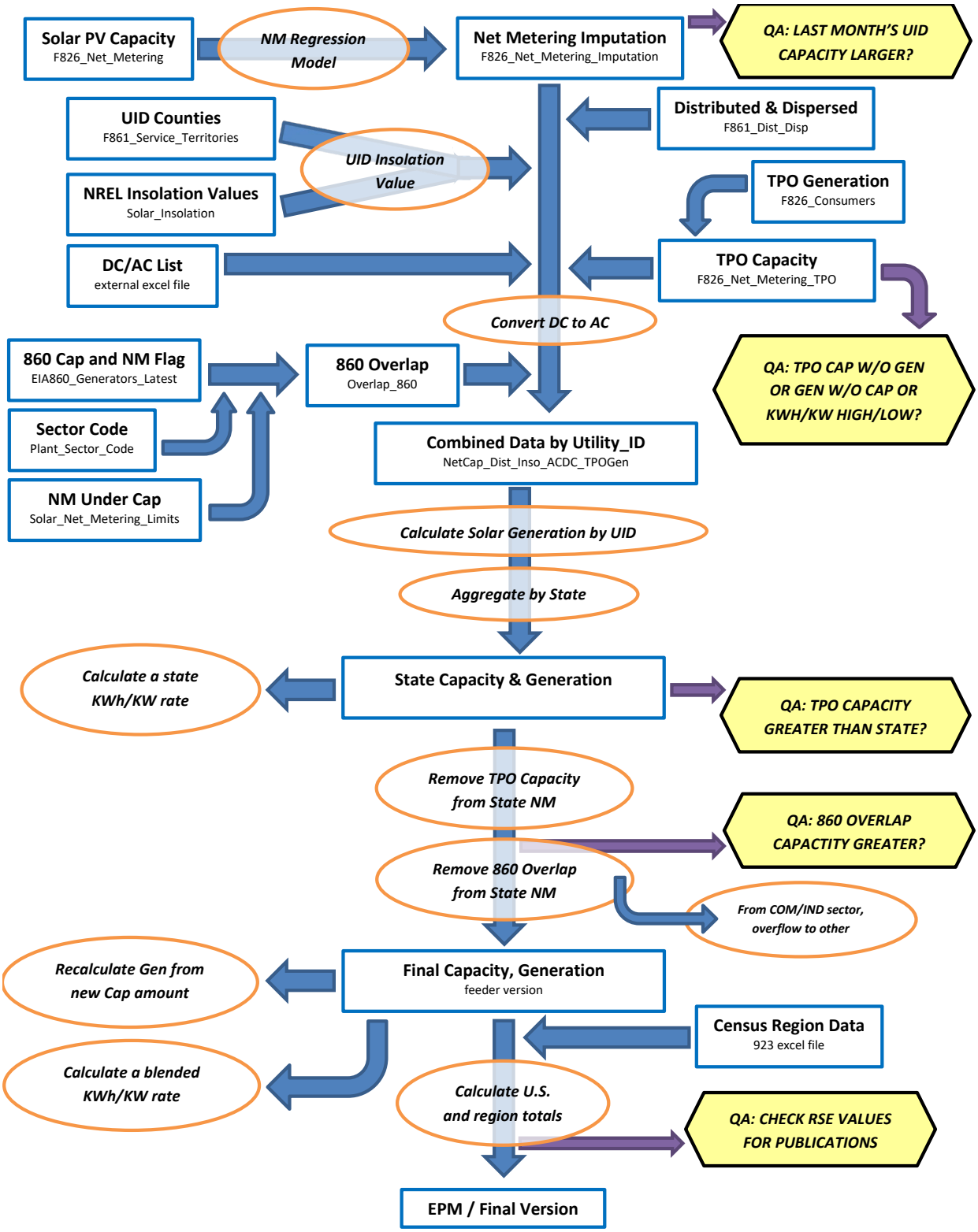
TMY3 (1991-2005) Weather Stations by MSA

Site	Weather Location	MSA
1	USA NY New York Central Park Obs.	New York-Newark-Jersey City, NY-NJ-PA MSA
2	USA CA Los Angeles Intl Airport	Los Angeles-Long Beach-Anaheim, CA MSA
3	USA IL Chicago Midway Airport	Chicago-Naperville-Elgin, IL-IN-WI MSA
4	USA TX Dallas-fort Worth Intl Airport	Dallas-Fort Worth-Arlington, TX MSA
5	USA TX Houston Bush Intercontinental	Houston-The Woodlands-Sugar Land, TX MSA
6	USA PA Philadelphia Int'l Airport	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD MSA
7	USA VA Washington Dc Reagan Airport	Washington-Arlington-Alexandria, DC-VA-MD-WV MSA
8	USA FL Miami Intl Airport	Miami-Fort Lauderdale-West Palm Beach, FL MSA
9	USA GA Atlanta Hartsfield Intl Airport	Atlanta-Sandy Springs-Roswell, GA MSA
10	USA MA Boston Logan Int'l Airport	Boston-Cambridge-Newton, MA-NH MSA
11	USA CA San Francisco Intl Airport	San Francisco–Oakland–Hayward, CA MSA
12	USA AZ Phoenix Sky Harbor Intl Airport	Phoenix-Mesa-Scottsdale, AZ MSA
13	USA CA Riverside Municipal Airport	Riverside-San Bernardino-Ontario, CA MSA
14	USA MI Detroit City Airport	Detroit-Warren-Dearborn, MI MSA
15	USA WA Seattle Seattle-Tacoma Intl Airport	Seattle-Tacoma-Bellevue, WA MSA
16	USA MN Minneapolis-St. Paul Int'l Arp	Minneapolis-St. Paul-Bloomington, MN-WI MSA
17	USA CA San Diego Lindbergh Field	San Diego-Carlsbad, CA MSA
18	USA FL Tampa Int'l Airport	Tampa-St. Petersburg-Clearwater, FL MSA
19	USA MO St Louis Lambert Int'l Airport	St. Louis, MO-IL MSA
20	USA MD Baltimore-Washington Int'l Airport	Baltimore-Columbia-Towson, MD MSA
21	USA CO Denver Centennial [Golden - NREL]	Denver-Aurora-Lakewood, CO MSA
22	USA PA Pittsburgh Allegheny Co Airport	Pittsburgh, PA MSA
23	USA NC Charlotte Douglas Intl Airport	Charlotte-Concord-Gastonia, NC-SC MSA
24	USA OR Portland Hillsboro	Portland-Vancouver-Hillsboro, OR-WA MSA
25	USA TX San Antonio Intl Airport	San Antonio-New Braunfels, TX MSA
26	USA FL Orlando Intl Airport	Orlando-Kissimmee-Sanford, FL MSA
27	USA CA Sacramento Executive Airport	Sacramento–Roseville–Arden-Arcade, CA MSA
28	USA OH Cincinnati Municipal Airport	Cincinnati, OH-KY-IN MSA
29	USA OH Cleveland Hopkins Intl Airport	Cleveland-Elyria, OH MSA
30	USA MO Kansas City Int'l Airport	Kansas City, MO-KS MSA
31	USA NV Las Vegas McCarran Intl Airport	Las Vegas-Henderson-Paradise, NV MSA
32	USA OH Columbus Port Columbus Intl A	Columbus, OH MSA
33	USA IN Indianapolis Intl Airport	Indianapolis-Carmel-Anderson, IN MSA
34	USA CA San Jose Intl Airport	San Jose-Sunnyvale-Santa Clara, CA MSA
35	USA TX Austin Mueller Municipal Airport	Austin-Round Rock, TX MSA
36	USA TN Nashville Int'l Airport	Nashville-Davidson–Murfreesboro–Franklin, TN MSA

37	USA VA Norfolk Int'l Airport	Virginia Beach-Norfolk-Newport News, VA-NC MSA
38	USA RI Providence T F Green State	Providence-Warwick, RI-MA MSA
39	USA WI Milwaukee Mitchell Intl Airport	Milwaukee-Waukesha-West Allis, WI MSA
40	USA FL Jacksonville Craig	Jacksonville, FL MSA
41	USA TN Memphis Int'l Airport	Memphis, TN-MS-AR MSA
42	USA OK Oklahoma City Will Rogers	Oklahoma City, OK MSA
43	USA KY Louisville Bowman Field	Louisville/Jefferson County, KY-IN MSA
44	USA VA Richmond Int'l Airport	Richmond, VA MSA
45	USA LA New Orleans Alvin Callender	New Orleans-Metairie, LA MSA
46	USA CT Hartford Bradley Intl Airport	Hartford-West Hartford-East Hartford, CT MSA
47	USA NC Raleigh Durham Int'l	Raleigh, NC MSA
48	USA UT Salt Lake City Int'l Airport	Salt Lake City, UT MSA
49	USA AL Birmingham Municipal Airport	Birmingham-Hoover, AL MSA
50	USA NY Buffalo Niagara Intl Airport	Buffalo-Cheektowaga-Niagara Falls, NY MSA
51	USA NY Rochester Greater Rochester	Rochester, NY MSA
52	USA MI Grand Rapids Kent County Int'l Airport	Grand Rapids-Wyoming, MI MSA
53	USA AZ Tucson Int'l Airport	Tucson, AZ MSA
54	USA HI Honolulu Intl Airport	Urban Honolulu, HI MSA
55	USA OK Tulsa Int'l Airport	Tulsa, OK MSA
56	USA CA Fresno Yosemite Intl Airport	Fresno, CA MSA
57	USA CT Bridgeport Sikorsky Memorial	Bridgeport-Stamford-Norwalk, CT MSA
58	USA MA Worchester Regional Airport	Worcester, MA-CT MSA
59	USA NM Albuquerque Intl Airport	Albuquerque, NM MSA
60	USA NE Omaha Eppley Airfield	Omaha-Council Bluffs, NE-IA MSA
61	USA NY Albany County Airport	Albany-Schenectady-Troy, NY MSA
62	USA CA Bakersfield Meadows Field	Bakersfield, CA MSA
63	USA CT New Haven Tweed Airport	New Haven-Milford, CT MSA
64	USA TN Knoxville McGhee Tyson Airport	Knoxville, TN MSA
65	USA SC Greenville Downtown Airport	Greenville-Anderson-Mauldin, SC MSA
66	USA CA Oxnard Airport	Oxnard-Thousand Oaks-Ventura, CA MSA
67	USA TX El Paso Int'l Airport	El Paso, TX MSA
68	USA PA Allentown Lehigh Valley Intl	Allentown-Bethlehem-Easton, PA-NJ MSA
69	USA LA Baton Rouge Ryan Airport	Baton Rouge, LA MSA
70	USA TX McCallen Miller Intl Airport	McAllen-Edinburg-Mission, TX MSA
71	USA OH Dayton Int'l Airport	Dayton, OH MSA
72	USA SC Columbia Metro Airport	Columbia, SC MSA
73	USA NC Greensboro Piedmont Triad Int'l Airport	Greensboro-High Point, NC MSA
74	USA FL Sarasota Bradenton	North Port-Sarasota-Bradenton, FL MSA
75	USA AR Little Rock Adams Field	Little Rock-North Little Rock-Conway, AR MSA
76	USA SC Charleston Intl Airport	Charleston-North Charleston, SC MSA
77	USA OH Akron Akron-canton Reg. Airport	Akron, OH MSA
78	USA CA Stockton Metropolitan Airport	Stockton-Lodi, CA MSA

79	USA CO Colorado Springs Muni Airport	Colorado Springs, CO MSA
80	USA NY Syracuse Hancock Int'l Airport	Syracuse, NY MSA
81	USA FL Fort Myers Page Field	Cape Coral-Fort Myers, FL MSA
82	USA NC Winston-Salem Reynolds Airport	Winston-Salem, NC MSA
83	USA ID Boise Air Terminal	Boise City, ID MSA
84	USA KS Wichita Mid-continent Airport	Wichita, KS MSA
85	USA WI Madison Dane Co Regional Airport	Madison, WI MSA
86	USA MA Worchester Regional Airport	Springfield, MA MSA
87	USA FL Lakeland Linder Regional Airport	Lakeland-Winter Haven, FL MSA
88	USA UT Ogden Hinkley Airport	Ogden-Clearfield, UT MSA
89	USA OH Toledo Express Airport	Toledo, OH MSA
90	USA FL Daytona Beach Intl Airport	Deltona-Daytona Beach-Ormond Beach, FL MSA
91	USA IA Des Moines Intl Airport	Des Moines-West Des Moines, IA MSA
92	USA GA Augusta Bush Field	Augusta-Richmond County, GA-SC MSA
93	USA MS Jackson Int'l Airport	Jackson, MS MSA
94	USA UT Provo Muni	Provo-Orem, UT MSA
95	USA PA Wilkes-Barre Scranton Intl Airport	Scranton–Wilkes-Barre–Hazleton, PA MSA
96	USA PA Harrisburg Capital City Airport	Harrisburg-Carlisle, PA MSA
97	USA OH Youngstown Regional Airport	Youngstown-Warren-Boardman, OH-PA MSA
98	USA FL Melbourne Regional Airport	Palm Bay-Melbourne-Titusville, FL MSA
99	USA TN Chattanooga Lovell Field Airport	Chattanooga, TN-GA MSA
100	USA WA Spokane Int'l Airport	Spokane-Spokane Valley, WA MSA

Appendix 2 – Flow diagram of data sources and analysis



[1] The basic technique employed is described in the paper "Model-Based Sampling and Inference," on the EIA website. Additional references can be found on the InterStat website (http://interstat.statjournals.net/). See the following sources: Knaub, J.R., Jr. (1999a), "Using Prediction-Oriented Software for Survey Estimation," InterStat, August 1999, http://interstat.statjournals.net/; Knaub, J.R. Jr. (1999b), "Model-Based Sampling, Inference and Imputation," EIA web site: http://www.eia.gov/cneaf/electricity/forms/eiawebme.pdf; Knaub, J.R., Jr. (2005), "Classical Ratio Estimator," InterStat, October 2005, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2007a), "Cutoff Sampling and Inference," InterStat, April 2007, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2008), "Cutoff Sampling." Definition in Encyclopedia of Survey Research Methods, Editor: Paul J. Lavrakas, Sage, to appear; Knaub, J.R., Jr. (2000), "Using Prediction-Oriented Software for Survey Estimation - Part II: Ratios of Totals," InterStat, June 2000, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2001), "Using Prediction-Oriented Software for Survey Estimation - Part III: Full-Scale Study of Variance and Bias," InterStat, June 2001, http://interstat.statjournals.net/.

[2] See the following sources: Bahillo, A. et al. Journal of Energy Resources Technology, "NOx and N2O Emissions During Fluidized Bed Combustion of Leather Wastes." Volume 128, Issue 2, June 2006. pp. 99-103; U.S. Energy Information Administration. *Renewable Energy Annual 2004*. "Average Heat Content of Selected Biomass Fuels." Washington, DC, 2005; Penn State Agricultural College Agricultural and Biological Engineering and Council for Solid Waste Solutions. Garth, J. and Kowal, P. Resource Recovery, Turning Waste into Energy, University Park, PA, 1993; Utah State University Recycling Center Frequently Asked Questions. Published at http://www.usu.edu/recycle/faq.htm. Accessed December 2006.

[3] Biogenic components include newsprint, paper, containers and packaging, leather, textiles, yard trimmings, food wastes, and wood. Non-biogenic components include plastics, rubber and other miscellaneous non-biogenic waste.

Table C.1 Average Heat Content of Fossil-Fuel Receipts, April 2020

Census Division and State	Coal (Million Btu per Ton)	Petroleum Liquids (Million Btu per Barrel)	Petroleum Coke (Million Btu per Ton)	Natural Gas (Million Btu per Thousand Cubic Feet)
New England	25.68	5.88	--	1.03
Connecticut	--	5.80	--	1.03
Maine	24.80	6.25	--	1.04
Massachusetts	--	5.79	--	1.03
New Hampshire	25.80	--	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	12.47	5.86	--	1.04
New Jersey	25.71	5.80	--	1.03
New York	--	5.80	--	1.03
Pennsylvania	11.31	5.98	--	1.04
East North Central	20.14	5.78	27.12	1.05
Illinois	17.51	5.81	--	1.01
Indiana	22.17	5.75	--	1.05
Michigan	19.36	5.84	27.13	1.07
Ohio	24.81	5.77	--	1.06
Wisconsin	17.86	--	27.11	1.03
West North Central	16.54	5.78	--	1.06
Iowa	17.62	5.80	--	1.09
Kansas	16.86	5.68	--	1.01
Minnesota	17.57	--	--	1.10
Missouri	17.73	5.78	--	1.03
Nebraska	17.17	--	--	1.07
North Dakota	13.27	5.92	--	1.00
South Dakota	16.59	--	--	--
South Atlantic	24.14	5.83	--	1.03
Delaware	--	5.79	--	1.04
District of Columbia	--	--	--	--
Florida	23.90	5.85	--	1.03
Georgia	20.85	5.95	--	1.03
Maryland	23.86	5.80	--	1.04
North Carolina	25.08	5.81	--	1.03
South Carolina	24.87	5.87	--	1.03
Virginia	19.62	6.23	--	1.04
West Virginia	25.04	5.79	--	1.05
East South Central	20.66	5.79	--	1.03
Alabama	18.35	5.50	--	1.03
Kentucky	23.01	5.80	--	1.02
Mississippi	11.93	5.90	--	1.04
Tennessee	23.23	5.78	--	1.01
West South Central	15.79	5.91	28.99	1.03
Arkansas	17.62	5.86	--	1.03
Louisiana	17.91	--	28.99	1.04
Oklahoma	17.11	6.00	--	1.04
Texas	15.39	5.89	--	1.02
Mountain	18.69	5.73	--	1.05
Arizona	18.27	5.50	--	1.04
Colorado	18.52	--	--	1.10
Idaho	--	--	--	--
Montana	16.87	--	--	1.05
Nevada	20.99	5.79	--	1.05
New Mexico	18.59	5.66	--	1.04
Utah	21.87	5.72	--	1.05
Wyoming	17.44	5.86	--	1.05
Pacific Contiguous	17.90	6.00	--	1.06
California	23.19	--	--	1.06
Oregon	17.18	--	--	1.04
Washington	16.77	6.00	--	1.08
Pacific Noncontiguous	18.59	5.99	--	1.00
Alaska	14.33	5.60	--	1.00
Hawaii	20.56	6.00	--	--
U.S. Total	18.75	5.92	28.64	1.04

'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, 2016 through 2018

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2016**	**2017**	**2018**
Net Generation			
Coal	0.09%	0.17%	0.42%
Petroleum Liquids	3.08%	3.41%	2.56%
Petroleum Coke	1.46%	5.79%	5.97%
Natural Gas	0.30%	1.94%	1.10%
Other Gases	3.76%	11.64%	10.59%
Hydroelectric	0.76%	2.01%	2.37%
Nuclear	0.05%	0.00%	0.00%
Other	0.76%	1.33%	1.67%
Total	**0.08%**	**0.56%**	**0.29%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.11%	0.13%	0.17%
Petroleum Liquids	5.81%	3.39%	5.23%
Petroleum Coke	0.87%	4.95%	10.63%
Natural Gas	2.26%	1.09%	0.79%
Fuel Stocks for Electric Power Sector			
Coal	0.72%	0.18%	0.35%
Petroleum Liquids	5.25%	2.10%	1.07%
Petroleum Coke	0.27%	14.42%	2.29%
Retail Sales			
Residential	0.26%	0.31%	0.34%
Commercial	0.55%	0.28%	0.37%
Industrial	4.31%	4.00%	5.02%
Transportation	0.06%	0.12%	0.95%
Total	**1.40%**	**1.12%**	**1.53%**
Revenue			
Residential	0.28%	0.26%	0.21%
Commercial	1.21%	0.28%	0.49%
Industrial	4.54%	3.52%	4.76%
Transportation	1.53%	0.21%	1.63%
Total	**1.34%**	**0.57%**	**1.04%**
Average Retail Price			
Residential	0.05%	0.21%	0.16%
Commercial	0.65%	0.20%	0.16%
Industrial	0.24%	0.51%	0.38%
Transportation	1.57%	0.20%	0.80%
Total	**0.10%**	**0.53%**	**0.48%**
Receipt of Fossil Fuels			
Coal	1.92%	1.30%	0.33%
Petroleum Liquids	1.16%	3.18%	11.02%
Petroleum Coke	0.01%	0.00%	0.00%
Natural Gas	0.21%	19.49%	8.23%
Cost of Fossil Fuels			
Coal	0.12%	0.83%	0.24%
Petroleum Liquids	0.26%	0.34%	1.04%
Petroleum Coke	0.12%	0.00%	0.00%
Natural Gas	0.12%	0.47%	0.54%

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, 2016 through 2018

Item	2016			2017			2018		
	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	1,240,108	1,239,149	-0.08%	1,207,901	1,205,835	-0.17%	1,146,393	1,149,487	0.27%
Petroleum Liquids	12,675	13,008	2.63%	12,583	12,414	-1.34%	15,742	16,245	3.19%
Petroleum Coke	11,232	11,197	-0.31%	8,508	8,976	5.50%	8,830	8,981	1.71%
Natural Gas	1,380,295	1,378,307	-0.14%	1,272,864	1,296,442	1.85%	1,468,013	1,469,133	0.08%
Other Gases	13,000	12,807	-1.48%	14,159	12,469	-11.94%	12,191	13,463	10.43%
Hydroelectric	259,143	261,126	0.77%	293,550	293,838	0.10%	285,819	286,619	0.28%
Nuclear	805,327	805,694	0.05%	804,950	804,950	0.00%	807,078	807,084	0.00%
Other	357,299	355,387	-0.54%	400,289	399,346	-0.24%	433,744	427,265	-1.49%
Total	**4,079,079**	**4,076,675**	**-0.06%**	**4,014,804**	**4,034,271**	**0.48%**	**4,177,810**	**4,178,277**	**0.01%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	678,005	677,371	-0.09%	663,479	663,911	0.07%	635,833	636,213	0.06%
Petroleum Liquids (1,000 barrels)	21,225	22,405	5.56%	21,935	21,696	-1.09%	27,245	28,614	5.02%
Petroleum Coke (1,000 tons)	4,275	4,253	-0.52%	3,349	3,490	4.21%	3,311	3,623	9.40%
Natural Gas (1,000 Mcf)	10,400,189	10,170,110	-2.21%	9,440,777	9,508,062	0.71%	10,855,155	10,833,043	-0.20%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	163,946	162,009	-1.18%	137,155	137,687	0.39%	102,786	102,793	0.01%
Petroleum Liquids (1,000 barrels)	30,880	30,593	-0.93%	28,723	28,089	-2.21%	25,082	25,977	3.57%
Petroleum Coke (1,000 tons)	872	845	-3.10%	1,113	864	-22.42%	541	539	-0.27%
Retail Sales (Million kWh)									
Residential	1,407,394	1,411,058	0.26%	1,378,819	1,378,648	-0.01%	1,464,373	1,469,093	0.32%
Commercial	1,359,617	1,367,191	0.56%	1,349,208	1,352,888	0.27%	1,376,741	1,381,755	0.36%
Industrial	936,269	976,715	4.32%	946,443	984,298	4.00%	953,076	1,000,673	4.99%
Transportation	7,499	7,497	-0.03%	7,524	7,523	-0.02%	7,738	7,665	-0.94%
Total	**3,710,779**	**3,762,462**	**1.39%**	**3,681,995**	**3,723,356**	**1.12%**	**3,801,928**	**3,859,185**	**1.51%**
Revenue (Million Dollars)									
Residential	176,585	177,077	0.28%	177,860	177,661	-0.11%	188,742	189,033	0.15%
Commercial	140,937	142,643	1.21%	144,108	144,242	0.09%	146,696	147,425	0.50%
Industrial	63,201	66,068	4.54%	65,394	67,691	3.51%	66,090	69,218	4.73%
Transportation	711	722	1.53%	727	728	0.15%	756	744	-1.65%
Total	**381,435**	**386,509**	**1.33%**	**388,089**	**390,322**	**0.58%**	**402,283**	**406,420**	**1.03%**
Average Retail Price (Cents/kWh)									
Residential	12.55	12.55	0.02%	12.90	12.89	-0.10%	12.89	12.87	-0.17%
Commercial	10.37	10.43	0.65%	10.68	10.66	-0.18%	10.66	10.67	0.13%
Industrial	6.75	6.76	0.21%	6.91	6.88	-0.47%	6.93	6.92	-0.25%
Transportation	9.48	9.63	1.55%	9.67	9.68	0.17%	9.77	9.70	-0.71%
Total	**10.28**	**10.27**	**-0.06%**	**10.54**	**10.48**	**-0.54%**	**10.58**	**10.53**	**-0.47%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	638,564	650,770	1.91%	634,118	642,364	1.30%	594,683	596,215	0.26%
Petroleum Liquids (1,000 barrels)	16,610	16,807	1.18%	15,619	16,127	3.25%	19,717	22,290	13.05%
Petroleum Coke (1,000 tons)	4,166	4,166	0.01%	3,309	3,309	0.00%	3,010	3,010	0.00%
Natural Gas (1,000 Mcf)	10,258,688	10,271,180	0.12%	8,050,520	9,628,733	19.60%	10,039,232	10,885,764	8.43%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.12	2.11	-0.15%	2.08	2.06	-0.87%	2.06	2.06	-0.22%
Petroleum Liquids (1,000 barrels)	9.36	9.39	0.28%	11.82	11.86	0.36%	14.24	14.40	1.16%
Petroleum Coke (1,000 tons)	1.65	1.65	0.15%	2.13	2.13	0.00%	2.54	2.54	0.00%
Natural Gas (1,000 Mcf)	2.88	2.87	-0.06%	3.39	3.37	-0.55%	3.55	3.55	0.03%

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 2018 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.