



Independent Statistics & Analysis
U.S. Energy Information
Administration

Electric Power Monthly

with Data for June 2020

August 2020

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Preface

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

Background

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

Data sources

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

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Executive Summary

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Net Generation and Consumption of Fuels for June														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	65,475	78,610	-16.7%	49,684	60,148	15,363	17,943	21	14	407	504	0	0
Petroleum Liquids	Utility Scale Facilities	849	976	-13.0%	629	724	179	209	7	7	34	36	0	0
Petroleum Coke	Utility Scale Facilities	827	555	48.9%	647	398	130	103	0	0	49	54	0	0
Natural Gas	Utility Scale Facilities	143,247	136,994	4.6%	72,356	69,984	62,337	58,397	686	690	7,868	7,923	0	0
Other Gas	Utility Scale Facilities	832	1,025	-18.8%	1	23	133	325	0	0	698	677	0	0
Nuclear	Utility Scale Facilities	67,205	68,805	-2.3%	36,388	36,847	30,817	31,958	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	28,621	26,469	8.1%	26,566	24,285	1,937	2,066	25	21	93	97	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	45,359	37,208	21.9%	5,807	4,524	37,075	30,063	282	283	2,195	2,337	0	0
... Wind	Utility Scale Facilities	30,147	22,947	31.4%	4,465	3,479	25,605	19,446	16	14	61	9	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	9,467	8,006	18.3%	1,010	638	8,377	7,292	69	67	11	9	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	2,994	3,339	-10.3%	159	238	762	841	8	4	2,065	2,255	0	0
... Other Biomass	Utility Scale Facilities	1,409	1,554	-9.3%	89	88	1,106	1,237	156	165	57	65	0	0
... Geothermal	Utility Scale Facilities	1,342	1,362	-1.5%	84	81	1,225	1,247	34	34	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-499	-385	29.5%	-420	-299	-79	-86	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,020	1,107	-7.8%	33	41	543	618	83	92	361	357	0	0
All Energy Sources	Utility Scale Facilities	352,936	351,363	0.4%	191,692	196,676	148,435	141,596	1,104	1,106	11,706	11,985	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	4,258	3,615	17.8%	0	0	0	0	1,311	1,130	355	311	2,592	2,174
Estimated Total Solar Photovoltaic	All Facilities	13,321	11,181	19.1%	1,001	637	7,982	6,854	1,380	1,196	366	319	2,592	2,174
Estimated Total Solar	All Facilities	13,725	11,620	18.1%	1,010	638	8,377	7,292	1,380	1,196	366	319	2,592	2,174
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	36,706	44,274	-17.1%	27,697	33,482	8,868	10,611	7	4	135	176	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,533	1,731	-11.4%	1,162	1,325	319	351	20	18	32	37	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	329	218	50.9%	258	151	58	53	0	0	14	14	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,067,313	1,012,529	5.4%	558,868	537,372	455,032	423,972	4,206	4,355	49,207	46,829	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	774	1,015	-23.7%	122	177	54	106	29	26	569	706	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	145	143	1.4%	4	4	14	18	17	13	110	108	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	74	73	0.9%	1	1	6	7	0	0	67	65	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	99,427	99,519	-0.1%	4,113	4,099	28,725	27,809	6,063	6,327	60,526	61,285	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	37,481	45,289	-17.2%	27,819	33,659	8,922	10,717	36	31	704	882	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,677	1,874	-10.5%	1,166	1,328	333	369	37	31	142	146	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	403	291	38.4%	258	152	64	60	0	0	81	79	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,166,739	1,112,048	4.9%	562,981	541,471	483,756	451,782	10,268	10,682	109,734	108,113	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	151,286	118,294	27.9%	120,815	94,364	29,913	23,346	57	50	502	533	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	27,077	27,921	-3.0%	16,436	17,016	9,404	9,202	378	373	860	1,331	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	564	516	9.4%	467	382	9	7	2	1	87	126	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for June									
Total U.S. Electric Power Industry									
Sector	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)		
	June 2020	June 2019	Percentage Change	June 2020	June 2019	Percentage Change	June 2020	June 2019	Percentage Change
Residential	131,248	119,519	9.8%	17,425	15,967	9.1%	13.28	13.36	-0.6%
Commercial	108,654	115,338	-5.8%	11,904	12,553	-5.2%	10.96	10.88	0.7%
Industrial	75,225	80,618	-6.7%	5,228	5,569	-6.1%	6.95	6.91	0.6%
Transportation	481	612	-21.3%	50	62	-18.4%	10.44	10.06	3.8%
All Sectors	315,608	316,087	-0.2%	34,607	34,151	1.3%	10.97	10.80	1.6%

NM = Not meaningful due to large relative standard error.

W = Withheld to avoid disclosure of individual company data.

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

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

Petroleum Liquids includes distillate fuel oil, 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 June														
Fuel	Facility Type	Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
		June 2020 YTD	June 2019 YTD	Percentage Change	Electric Utilities		Independent Power Producers		June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
					June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD						
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	324,367	470,129	-31.0%	242,668	350,601	78,786	116,208	120	147	2,793	3,172	0	0
Petroleum Liquids	Utility Scale Facilities	4,553	5,695	-20.0%	3,429	3,942	896	1,466	40	51	188	235	0	0
Petroleum Coke	Utility Scale Facilities	3,931	3,973	-1.1%	2,918	2,888	760	792	2	4	251	289	0	0
Natural Gas	Utility Scale Facilities	750,193	699,493	7.2%	377,886	345,672	320,226	302,278	3,951	4,107	48,130	47,436	0	0
Other Gas	Utility Scale Facilities	6,049	6,673	-9.4%	41	88	1,496	2,075	0	0	4,511	4,511	0	0
Nuclear	Utility Scale Facilities	394,865	400,005	-1.3%	215,541	212,588	179,324	187,417	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	150,492	153,595	-2.0%	137,195	139,953	12,575	12,936	121	123	602	583	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	254,739	225,310	13.1%	33,487	28,662	206,001	181,248	1,673	1,658	13,577	13,742	0	0
... Wind	Utility Scale Facilities	174,983	152,869	14.5%	26,411	22,806	148,362	129,910	99	97	111	57	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	43,739	35,424	23.5%	4,912	3,272	38,449	31,814	330	300	47	38	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	18,816	19,686	-4.4%	1,159	1,575	4,635	4,848	30	38	12,991	13,226	0	0
... Other Biomass	Utility Scale Facilities	9,180	9,215	-0.4%	542	545	7,231	7,250	979	998	429	421	0	0
... Geothermal	Utility Scale Facilities	8,020	8,115	-1.2%	462	464	7,324	7,426	235	225	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-2,196	-1,977	11.1%	-1,733	-1,497	-464	-481	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	6,288	6,530	-3.7%	235	229	3,505	3,560	507	533	2,040	2,207	0	0
All Energy Sources	Utility Scale Facilities	1,893,280	1,969,424	-3.9%	1,011,667	1,083,127	803,106	807,499	6,414	6,624	72,094	72,174	0	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	20,616	17,312	19.1%	0	0	0	0	6,452	5,543	1,717	1,497	12,447	10,272
Estimated Total Solar Photovoltaic	All Facilities	62,652	51,134	22.5%	4,888	3,254	36,770	30,230	6,782	5,843	1,764	1,535	12,447	10,272
Estimated Total Solar	All Facilities	64,355	52,736	22.0%	4,912	3,272	38,449	31,814	6,782	5,843	1,764	1,535	12,447	10,272
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	184,736	262,692	-29.7%	136,778	194,518	46,950	67,020	36	42	972	1,112	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	8,379	10,064	-16.7%	6,442	7,235	1,640	2,481	102	102	195	245	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,539	1,576	-2.4%	1,181	1,152	284	342	1	1	73	82	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	5,451,364	5,089,671	7.1%	2,863,215	2,633,457	2,276,570	2,150,126	24,244	25,590	287,335	280,498	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	5,359	6,631	-19.2%	788	1,084	289	676	192	231	4,090	4,640	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	767	1,303	-41.2%	23	44	78	142	111	252	555	865	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	337	442	-23.8%	10	7	49	49	3	5	274	380	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	621,726	613,334	1.4%	23,594	22,125	173,039	169,488	39,075	39,904	386,018	381,816	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	190,095	269,323	-29.4%	137,566	195,602	47,240	67,696	227	273	5,062	5,751	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	9,145	11,367	-19.5%	6,465	7,279	1,718	2,623	213	354	749	1,110	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,876	2,019	-7.0%	1,191	1,159	334	391	4	7	348	462	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	6,073,090	5,703,004	6.5%	2,886,809	2,655,582	2,449,610	2,319,614	63,319	65,495	673,352	662,313	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through June									
Sector	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)		
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	Percentage Change
Residential	673,699	670,593	0.5%	88,015	87,048	1.1%	13.06	12.98	0.6%
Commercial	605,260	648,056	-6.6%	63,444	68,276	-7.1%	10.48	10.54	-0.6%
Industrial	446,418	465,844	-4.2%	29,017	31,152	-6.9%	6.50	6.69	-2.8%
Transportation	3,324	3,900	-14.8%	320	380	-15.8%	9.63	9.75	-1.2%
All Sectors	1,728,701	1,788,394	-3.3%	180,796	186,857	-3.2%	10.46	10.45	0.1%

YTD = Year to Date

NM = Not meaningful due to large relative standard error.

W = Withheld to avoid disclosure of individual company data.

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

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

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

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

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

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

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

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

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

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

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

Table ES2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units, 2020 and 2019

Total (All Sectors)										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
Coal (1000 tons)	32,837	44,942	36.14	39.18	207	238	206,232	274,311	36.24	39.97
Petroleum Liquids (1000 barrels)	1,123	1,120	43.61	82.28	112	122	6,022	7,466	59.43	83.07
Petroleum Coke (1000 tons)	199	130	41.45	62.61	5	5	1,286	881	41.95	65.47
Natural Gas (1000 Mcf)	986,138	942,226	2.07	2.67	581	578	5,150,290	4,844,161	2.32	3.32

Electric Utilities										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
Coal (1000 tons)	24,345	33,285	37.30	40.91	151	167	152,389	201,363	37.30	41.37
Petroleum Liquids (1000 barrels)	685	848	40.13	80.35	74	86	4,324	5,643	61.07	82.77
Petroleum Coke (1000 tons)	199	130	41.45	62.61	5	5	1,286	881	41.95	65.47
Natural Gas (1000 Mcf)	490,892	476,866	2.32	2.84	299	298	2,556,968	2,369,856	2.57	3.49

Independent Power Producers										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
Coal (1000 tons)	8,001	11,090	31.85	33.36	44	58	50,608	69,249	32.10	35.20
Petroleum Liquids (1000 barrels)	422	250	48.86	89.05	30	27	1,554	1,672	54.03	84.21
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	431,962	403,183	1.75	2.41	237	233	2,207,367	2,087,012	2.01	3.11

Commercial Sector										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
Coal (1000 tons)	0	0	--	66.38	0	1	4	5	67.52	65.75
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	599	776	3.23	3.36	3	3	4,016	4,613	3.22	3.44

Industrial Sector										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
Coal (1000 tons)	491	567	48.11	51.38	12	12	3,231	3,694	51.12	53.14
Petroleum Liquids (1000 barrels)	16	21	53.81	79.96	8	9	144	151	67.72	81.60
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	62,685	61,402	1.88	2.71	42	44	381,940	382,680	2.09	3.20

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)										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
Coal	621,590	867,346	1.91	2.03	207	238	3,888,372	5,297,648	1.92	2.07
Petroleum Liquids	6,759	6,735	7.24	13.68	112	122	36,076	45,090	9.92	13.75
Petroleum Coke	5,648	3,740	1.46	2.18	5	5	36,569	25,189	1.48	2.29
Natural Gas	1,015,633	972,337	2.01	2.59	581	578	5,323,168	5,003,098	2.24	3.21
Fossil Fuels	1,649,631	1,850,157	1.99	2.36	712	721	9,284,185	10,371,025	2.13	2.65

Electric Utilities										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
Coal	464,257	645,744	1.96	2.11	151	167	2,899,595	3,899,740	1.96	2.14
Petroleum Liquids	4,152	5,128	6.62	13.29	74	86	26,053	34,259	10.13	13.63
Petroleum Coke	5,648	3,740	1.46	2.18	5	5	36,569	25,189	1.48	2.29
Natural Gas	504,731	491,914	2.26	2.76	299	298	2,640,740	2,446,496	2.48	3.38
Fossil Fuels	978,789	1,146,525	2.13	2.44	390	398	5,602,958	6,405,684	2.24	2.67

Independent Power Producers										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
Coal	147,445	209,895	1.73	1.76	44	58	922,496	1,321,444	1.76	1.84
Petroleum Liquids	2,512	1,476	8.21	15.09	30	27	9,141	9,906	9.18	14.21
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	445,819	416,432	1.70	2.33	237	233	2,285,049	2,157,747	1.94	3.01
Fossil Fuels	595,776	627,803	1.74	2.15	275	274	3,216,687	3,489,098	1.91	2.55

Commercial Sector										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
Coal	0	2	--	2.90	0	1	84	117	2.96	2.90
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	626	807	3.09	3.23	3	3	4,182	4,782	3.10	3.32
Fossil Fuels	626	810	3.09	3.22	3	3	4,265	4,899	3.09	3.31

Industrial Sector										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
Coal	9,888	11,705	2.39	2.49	12	12	66,197	76,346	2.49	2.57
Petroleum Liquids	95	131	8.89	13.04	8	9	882	925	11.04	13.31
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	64,457	63,184	1.83	2.63	42	44	393,196	394,073	2.03	3.11
Fossil Fuels	74,441	75,020	1.91	2.63	44	46	460,275	471,345	2.12	3.04

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-June 2020
(Thousand Megawatthours)**

Period	Generation at Utility Scale Facilities											Total Generation at Utility Scale Facilities	Small Scale Generation		Net Generation From Utility and Small Scale Facilities	
	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other		Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total	
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	22,017	-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	24,226	-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	
May	46,488	694	632	116,236	862	64,338	29,468	9,742	34,255	-367	1,088	303,434	4,245	13,541	13,987	
June	65,475	849	827	143,247	832	67,205	28,621	9,467	35,892	-499	1,020	352,936	4,258	13,321	13,725	
Year to Date																
2018	542,037	10,168	4,377	659,810	6,704	402,613	161,984	32,592	189,116	-2,553	6,414	2,013,261	14,630	45,384	47,222	
2019	470,129	5,695	3,973	699,493	6,673	400,005	153,595	35,424	189,886	-1,977	6,530	1,969,424	17,312	51,134	52,736	
2020	324,367	4,553	3,931	750,193	6,049	394,865	150,492	43,739	211,000	-2,196	6,288	1,893,280	20,616	62,652	64,355	
Rolling 12 Months Ending in June																
2019	1,077,579	11,772	8,577	1,508,815	13,432	804,477	284,135	66,657	351,236	-5,329	13,089	4,134,441	32,222	95,522	98,879	
2020	820,386	10,434	6,949	1,632,515	13,010	804,269	270,605	80,549	395,608	-5,480	13,060	4,041,906	38,345	115,575	118,894	

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.

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

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

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-June 2020
(Thousand Megawatthours)**

Period	Generation at Utility Scale Facilities										Small Scale Generation	Generation From Utility and Small Scale Facilities	
	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
May	28,180	9,296	446	3,103	850	518	183	1,421	29,468	73,464	4,245	13,541	13,987
June	30,147	9,063	404	2,994	766	475	167	1,342	28,621	73,980	4,258	13,321	13,725
Year to Date													
2018	150,339	30,755	1,837	20,393	5,582	3,511	1,438	7,853	161,984	383,692	14,630	45,384	47,222
2019	152,869	33,822	1,602	19,686	4,999	3,008	1,207	8,115	153,595	378,905	17,312	51,134	52,736
2020	174,983	42,035	1,703	18,816	5,009	3,018	1,153	8,020	150,492	405,231	20,616	62,652	64,355
Rolling 12 Months Ending in June													
2019	275,198	63,301	3,357	40,230	10,453	6,633	2,493	16,230	284,135	702,029	32,222	95,522	98,879
2020	322,185	77,230	3,319	38,980	10,085	6,114	2,328	15,916	270,605	746,761	38,345	115,575	118,894

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-June 2020
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities											Total
	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	
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	581	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
May	34,895	511	436	60,356	8	34,392	27,106	1,093	4,553	-273	42	163,120
June	49,684	629	647	72,356	1	36,388	26,566	1,010	4,797	-420	33	191,692
Year to Date												
2018	405,677	5,836	3,319	329,849	110	210,066	149,040	2,493	23,767	-2,052	261	1,128,368
2019	350,601	3,942	2,888	345,672	88	212,588	139,953	3,272	25,390	-1,497	229	1,083,127
2020	242,668	3,429	2,918	377,886	41	215,541	137,195	4,912	28,575	-1,733	235	1,011,667
Rolling 12 Months Ending in June												
2019	808,428	8,214	6,386	736,029	129	426,773	258,250	5,694	45,807	-4,230	530	2,292,009
2020	614,399	7,668	5,142	814,684	107	433,625	246,949	8,188	52,683	-4,497	496	2,179,445

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.
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**Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2010-June 2020
(Thousand Megawatthours)**

Period	Generation at Utility Scale Facilities											Total
	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	
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	48,782	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
May	11,148	145	167	47,829	151	29,946	2,234	8,562	27,266	-94	587	127,941
June	15,363	179	130	62,337	133	30,817	1,937	8,377	28,698	-79	543	148,435
Year to Date												
2018	132,577	3,986	720	280,718	1,978	192,547	12,279	29,804	149,975	-501	3,316	807,398
2019	116,208	1,466	792	302,278	2,075	187,417	12,936	31,814	149,433	-481	3,560	807,499
2020	78,786	896	760	320,226	1,496	179,324	12,575	38,449	167,552	-464	3,505	803,106
Rolling 12 Months Ending in June												
2019	262,300	2,968	1,588	667,176	4,032	377,704	24,468	60,347	274,613	-1,099	6,920	1,681,018
2020	199,752	2,272	NM	710,211	3,574	370,644	22,309	71,635	312,726	-983	7,163	1,700,482

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-June 2020
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities											Total Generation at Utility Scale Facilities	Small Scale Generation		Net Generation From Utility and Small Scale Facilities	
	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other		Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total	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	688	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	
May	15	7	0	606	0	0	25	74	219	0	88	1,034	1,303	1,377	1,377	
June	21	7	0	686	0	0	25	69	213	0	83	1,104	1,311	1,380	1,380	
Year to Date																
2018	165	78	4	3,921	0	0	129	272	1,326	0	502	6,396	4,878	5,150	5,150	
2019	147	51	4	4,107	0	0	123	300	1,358	0	533	6,624	5,543	5,843	5,843	
2020	120	40	2	3,951	0	0	121	330	1,343	0	507	6,414	6,452	6,782	6,782	
Rolling 12 Months Ending in June																
2019	285	106	8	8,604	0	0	NM	553	2,721	0	1,041	13,540	10,463	11,017	11,017	
2020	NM	101	3	8,491	0	0	NM	639	2,686	0	1,038	13,414	12,006	12,645	12,645	

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.D. Net Generation by Energy Source: Industrial Sector, 2010-June 2020
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities											Total Generation at Utility Scale Facilities	Small Scale Generation		Net Generation From Utility and Small Scale Facilities	
	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other		Estimated Solar Photovoltaic	Estimated Total Solar Photovoltaic	Estimated Total	
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	
May	430	30	30	7,444	704	0	102	12	2,217	0	370	11,339	349	361	361	
June	407	34	49	7,868	698	0	93	11	2,184	0	361	11,706	355	366	366	
Year to Date																
2018	3,618	268	334	45,321	4,616	0	537	23	14,048	0	2,334	71,099	1,298	1,321	1,321	
2019	3,172	235	289	47,436	4,511	0	583	38	13,704	0	2,207	72,174	1,497	1,535	1,535	
2020	2,793	188	251	48,130	4,511	0	602	47	13,530	0	2,040	72,094	1,717	1,764	1,764	
Rolling 12 Months Ending in June																
2019	6,566	484	595	97,007	9,272	0	1,195	62	28,096	0	4,598	147,874	2,834	2,897	2,897	
2020	5,989	393	NM	99,129	9,329	0	1,139	88	27,512	0	4,362	148,565	3,262	3,350	3,350	

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.

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

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-June 2020
(Thousand Megawatthours)**

Period	Small Scale Generation
	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
May	2,593
June	2,592
Year to Date	
2018	8,453
2019	10,272
2020	12,447
Rolling 12 Months Ending in June	
2019	18,924
2020	23,077

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, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	8,555	8,104	5.6%	191	181	8,015	7,574	109	107	240	242
Connecticut	3,703	3,400	8.9%	6	6	3,606	3,307	35	33	57	54
Maine	894	823	8.7%	NM	0	735	659	8	10	151	154
Massachusetts	1,534	1,479	3.7%	69	45	1,391	1,361	57	53	17	19
New Hampshire	1,394	1,544	-9.7%	41	77	1,347	1,460	4	5	2	2
Rhode Island	839	685	22.4%	0	0	820	667	5	6	13	12
Vermont	191	173	10.7%	75	54	116	119	0	0	0	0
Middle Atlantic	36,814	35,870	2.6%	3,126	2,938	33,215	32,390	183	195	290	347
New Jersey	5,763	5,740	0.4%	11	5	5,649	5,617	48	54	55	64
New York	11,347	11,016	3.0%	3,110	2,926	8,067	7,909	109	112	61	69
Pennsylvania	19,705	19,114	3.1%	4	7	19,500	18,864	26	30	174	214
East North Central	46,516	47,158	-1.4%	16,462	16,969	29,060	29,171	142	138	851	880
Illinois	14,652	14,793	-1.0%	531	388	13,868	14,156	34	33	220	217
Indiana	7,597	7,449	2.0%	4,950	5,047	2,304	2,019	22	15	321	368
Michigan	8,591	9,708	-11.5%	5,507	6,737	2,913	2,809	52	55	118	107
Ohio	10,126	10,329	-2.0%	1,181	1,153	8,866	9,098	23	23	55	55
Wisconsin	5,549	4,878	13.8%	4,293	3,644	1,108	1,089	11	11	137	134
West North Central	28,557	27,593	3.5%	21,440	22,166	6,787	5,025	53	49	277	353
Iowa	5,001	5,281	-5.3%	3,814	4,043	1,014	1,034	19	19	154	184
Kansas	5,348	4,210	27.0%	3,024	2,814	2,320	1,390	NM	NM	NM	5
Minnesota	4,294	4,961	-13.4%	3,040	3,830	1,145	999	17	12	92	119
Missouri	6,018	6,114	-1.6%	5,453	5,568	548	529	14	14	3	2
Nebraska	3,138	3,040	3.2%	2,404	2,536	718	471	1	1	15	32
North Dakota	3,373	2,931	15.1%	2,712	2,466	649	453	NM	NM	NM	12
South Dakota	1,386	1,057	31.1%	994	909	392	148	NM	NM	0	0
South Atlantic	70,646	73,139	-3.4%	57,559	61,297	11,408	10,097	148	159	1,531	1,585
Delaware	566	446	26.9%	1	4	458	326	0	0	107	116
District of Columbia	9	9	9.9%	0	0	NM	NM	7	7	0	0
Florida	23,242	22,834	1.8%	21,685	21,270	1,153	1,142	7	5	397	417
Georgia	10,114	11,640	-13.1%	7,916	9,612	1,770	1,596	NM	1	428	431
Maryland	3,323	3,209	3.6%	218	317	3,020	2,796	81	92	4	4
North Carolina	11,272	11,605	-2.9%	9,443	9,781	1,659	1,661	21	20	149	142
South Carolina	8,403	8,803	-4.5%	7,974	8,503	300	148	0	0	128	152
Virginia	8,680	9,071	-4.3%	6,831	7,317	1,619	1,518	31	33	199	204
West Virginia	5,037	5,524	-8.8%	3,491	4,494	1,427	909	0	0	119	120
East South Central	31,383	30,974	1.3%	26,759	26,294	3,877	3,902	19	19	728	760
Alabama	12,385	12,525	-1.1%	8,553	8,885	3,448	3,254	0	0	384	386
Kentucky	5,871	6,262	-6.2%	5,724	6,192	111	18	0	0	36	51
Mississippi	6,273	5,574	12.5%	5,844	4,841	271	580	0	0	158	152
Tennessee	6,853	6,613	3.6%	6,637	6,375	47	49	19	19	149	170
West South Central	65,943	64,987	1.5%	21,680	22,661	38,000	35,978	103	83	6,160	6,264
Arkansas	4,556	5,183	-12.1%	4,062	4,506	397	535	NM	NM	91	139
Louisiana	9,547	9,526	0.2%	6,389	6,437	509	609	15	NM	2,635	2,473
Oklahoma	8,094	7,218	12.1%	3,833	3,526	4,184	3,626	0	0	77	66
Texas	43,746	43,059	1.6%	7,396	8,193	32,910	31,209	83	72	3,358	3,585
Mountain	30,593	30,492	0.3%	23,415	23,715	6,824	6,475	80	78	275	224
Arizona	9,968	10,176	-2.0%	8,350	8,509	1,606	1,654	13	13	0	0
Colorado	4,556	4,239	7.5%	3,317	3,318	1,228	913	5	4	6	4
Idaho	1,709	1,541	10.9%	1,189	990	477	501	4	4	39	45
Montana	1,809	2,018	-10.4%	1,269	973	538	1,043	0	0	NM	2
Nevada	3,654	3,603	1.4%	2,426	2,459	1,151	1,075	46	45	31	24
New Mexico	3,052	2,944	3.7%	1,855	2,296	1,189	640	8	8	0	0
Utah	2,827	2,930	-3.5%	2,407	2,507	391	378	3	4	27	42
Wyoming	3,018	3,041	-0.7%	2,602	2,664	246	271	0	0	170	106
Pacific Contiguous	32,657	31,699	3.0%	20,210	19,538	10,919	10,643	203	220	1,325	1,299
California	17,143	17,795	-3.7%	6,381	8,023	9,477	8,420	194	213	1,090	1,138
Oregon	5,095	4,930	3.3%	4,019	3,463	1,013	1,399	6	6	57	63
Washington	10,419	8,974	16.1%	9,809	8,052	429	824	2	NM	178	98
Pacific Noncontiguous	1,271	1,346	-5.6%	850	916	330	341	63	58	28	31
Alaska	522	506	3.1%	463	456	NM	18	33	23	9	10
Hawaii	749	840	-10.8%	387	460	313	323	30	35	19	22
U.S. Total	352,936	351,363	0.4%	191,692	196,676	148,435	141,596	1,104	1,106	11,706	11,985

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 June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	45,875	48,295	-5.0%	1,086	1,237	42,710	45,009	630	643	1,449	1,405
Connecticut	20,045	18,485	8.4%	40	48	19,483	17,947	197	191	326	299
Maine	5,145	5,179	-0.7%	NM	0	4,168	4,223	55	69	921	887
Massachusetts	7,987	11,519	-30.7%	293	252	7,253	10,814	324	319	117	134
New Hampshire	7,538	8,460	-10.9%	282	512	7,216	7,898	27	36	13	15
Rhode Island	3,940	3,497	12.7%	0	0	3,843	3,400	26	27	71	70
Vermont	1,220	1,155	5.6%	470	425	749	728	1	2	0	0
Middle Atlantic	200,723	205,690	-2.4%	17,451	16,709	180,245	185,743	1,080	1,105	1,947	2,133
New Jersey	29,215	33,137	-11.8%	-1	40	28,588	32,457	282	280	345	360
New York	62,711	61,483	2.0%	17,385	16,594	44,289	43,826	616	634	421	430
Pennsylvania	108,797	111,070	-2.0%	66	75	107,368	109,460	182	192	1,181	1,343
East North Central	258,044	287,953	-10.4%	86,251	105,938	165,443	175,646	840	885	5,511	5,484
Illinois	81,042	90,104	-10.1%	2,312	2,346	77,212	86,266	194	192	1,324	1,300
Indiana	41,138	50,952	-19.3%	24,796	35,542	14,007	13,075	118	122	2,216	2,213
Michigan	50,165	56,873	-11.8%	30,760	38,359	18,338	17,385	348	388	718	740
Ohio	55,905	59,949	-6.7%	5,767	6,525	49,674	52,954	103	111	360	358
Wisconsin	29,794	30,076	-0.9%	22,615	23,166	6,211	5,966	76	72	892	873
West North Central	160,012	165,151	-3.1%	118,872	130,274	39,019	32,602	288	308	1,833	1,967
Iowa	28,151	31,353	-10.2%	20,009	23,595	7,070	6,633	95	110	976	1,015
Kansas	25,912	25,082	3.3%	14,404	15,644	11,411	9,378	NM	8	89	53
Minnesota	25,570	28,178	-9.3%	18,173	21,497	6,783	5,930	92	95	522	656
Missouri	33,619	37,274	-9.8%	30,485	34,443	3,030	2,729	82	86	21	17
Nebraska	18,261	17,484	4.4%	13,895	13,826	4,210	3,499	9	8	147	151
North Dakota	20,998	19,330	8.6%	16,644	15,896	4,275	3,357	NM	NM	77	75
South Dakota	7,501	6,449	16.3%	5,261	5,372	2,240	1,077	NM	NM	0	0
South Atlantic	374,760	386,445	-3.0%	307,280	321,151	57,181	54,967	888	938	9,411	9,389
Delaware	2,210	2,177	1.5%	4	7	1,566	1,539	3	3	637	628
District of Columbia	55	48	13.9%	0	0	9	7	46	41	0	0
Florida	119,071	115,496	3.1%	110,884	107,904	5,738	5,081	38	35	2,411	2,477
Georgia	53,515	59,687	-10.3%	42,011	49,831	8,893	7,326	2	3	2,609	2,528
Maryland	17,360	19,374	-10.4%	1,493	2,111	15,365	16,605	479	536	23	122
North Carolina	58,269	61,077	-4.6%	48,254	51,548	8,960	8,518	136	134	918	877
South Carolina	47,293	50,065	-5.5%	45,096	48,250	1,296	907	2	2	899	906
Virginia	50,902	47,125	8.0%	39,717	36,938	9,786	8,809	183	184	1,216	1,194
West Virginia	26,087	31,395	-16.9%	19,821	24,561	5,568	6,176	0	0	698	658
East South Central	161,392	173,549	-7.0%	137,773	147,918	18,889	21,029	114	103	4,615	4,499
Alabama	64,843	68,609	-5.5%	46,272	49,739	16,192	16,585	0	0	2,380	2,285
Kentucky	29,012	34,549	-16.0%	28,547	34,124	183	145	0	0	282	280
Mississippi	31,561	30,558	3.3%	28,350	25,599	2,276	4,079	0	0	935	880
Tennessee	35,975	39,833	-9.7%	34,604	38,455	239	221	114	103	1,018	1,053
West South Central	338,291	340,356	-0.6%	104,953	111,086	194,948	190,634	478	507	37,912	38,129
Arkansas	22,921	29,679	-22.8%	20,064	26,275	2,241	2,503	31	21	585	880
Louisiana	50,996	47,463	7.4%	33,302	27,721	2,466	3,926	93	74	15,135	15,743
Oklahoma	40,390	38,741	4.3%	17,115	17,837	22,810	20,509	0	0	465	395
Texas	223,985	224,473	-0.2%	34,471	39,253	167,431	163,696	355	413	21,728	21,112
Mountain	166,700	173,533	-3.9%	124,499	133,277	40,153	38,361	502	496	1,546	1,398
Arizona	49,517	52,393	-5.5%	41,365	45,060	8,080	7,259	72	74	0	0
Colorado	26,280	26,747	-1.7%	19,149	20,544	7,070	6,150	25	16	36	36
Idaho	9,342	8,332	12.1%	5,995	5,463	3,029	2,564	25	23	293	283
Montana	11,910	13,485	-11.7%	6,061	5,633	5,832	7,838	0	0	17	15
Nevada	18,752	18,137	3.4%	12,197	12,042	6,126	5,679	295	288	134	128
New Mexico	16,442	16,051	2.4%	9,819	10,514	6,566	5,486	47	51	10	1
Utah	15,800	18,398	-14.1%	13,688	16,209	1,879	1,870	37	44	196	276
Wyoming	18,655	19,990	-6.7%	16,224	17,813	1,572	1,518	0	0	860	659
Pacific Contiguous	179,879	180,920	-0.6%	108,340	110,547	62,598	61,510	1,246	1,280	7,695	7,582
California	89,286	96,683	-7.7%	32,776	41,981	48,871	46,836	1,195	1,232	6,443	6,634
Oregon	32,945	31,019	6.2%	23,782	22,492	8,759	8,171	38	35	365	321
Washington	57,648	53,217	8.3%	51,782	46,074	4,968	6,503	12	13	887	627
Pacific Noncontiguous	7,604	7,533	0.9%	5,162	4,990	1,919	1,998	348	358	175	187
Alaska	3,180	2,902	9.6%	2,835	2,579	118	110	170	153	58	60
Hawaii	4,423	4,632	-4.5%	2,327	2,411	1,801	1,888	178	205	117	128
U.S. Total	1,893,280	1,969,424	-3.9%	1,011,667	1,083,127	803,106	807,499	6,414	6,624	72,094	72,174

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, June 2020 and 2019 (Thousand Megawatthours)**

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	9	38	-77.5%	6	35	0	1	0	0	NM	NM
Connecticut	-2	-1	72.4%	0	0	-2	-1	0	0	0	0
Maine	4	NM	NM	0	0	2	2	0	0	NM	NM
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	6	35	-82.8%	6	35	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	2,002	2,831	-29.3%	0	0	1,996	2,822	0	0	6	9
New Jersey	74	87	-14.1%	0	0	74	87	0	0	0	0
New York	0	1	-100.0%	0	0	0	1	0	0	0	0
Pennsylvania	1,928	2,744	-29.7%	0	0	1,922	2,734	0	0	6	9
East North Central	15,395	16,949	-9.2%	8,858	9,663	6,386	7,136	4	NM	147	148
Illinois	2,658	3,611	-26.4%	181	260	2,355	3,228	4	NM	117	120
Indiana	3,898	4,134	-5.7%	3,520	3,898	379	236	0	NM	0	0
Michigan	2,507	3,293	-23.9%	2,475	3,254	30	36	0	0	NM	NM
Ohio	4,091	4,098	-0.2%	469	461	3,622	3,636	0	0	0	1
Wisconsin	2,241	1,813	23.6%	2,213	1,790	0	0	0	0	27	24
West North Central	11,088	13,198	-16.0%	10,931	12,989	0	0	5	5	152	203
Iowa	1,161	2,140	-45.7%	1,040	2,001	0	0	5	5	116	133
Kansas	1,668	1,435	16.3%	1,668	1,435	0	0	0	0	0	0
Minnesota	811	1,658	-51.1%	797	1,627	0	0	0	0	NM	31
Missouri	3,994	4,161	-4.0%	3,994	4,161	0	0	0	0	0	0
Nebraska	1,521	1,783	-14.7%	1,506	1,751	0	0	0	0	15	32
North Dakota	1,857	1,809	2.6%	1,850	1,802	0	0	0	0	NM	7
South Dakota	77	212	-63.8%	77	212	0	0	0	0	0	0
South Atlantic	11,183	14,671	-23.8%	9,563	13,667	1,594	965	1	0	25	40
Delaware	-2	1	-273.8%	0	0	-2	1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,506	2,140	-29.6%	1,502	2,136	0	0	0	0	4	NM
Georgia	759	2,653	-71.4%	748	2,641	0	0	0	0	11	NM
Maryland	553	337	64.1%	0	0	553	337	0	0	0	0
North Carolina	2,574	2,804	-8.2%	2,557	2,786	8	7	1	0	8	10
South Carolina	1,117	1,285	-13.0%	1,101	1,284	15	0	0	0	1	0
Virginia	238	429	-44.5%	233	408	4	7	0	0	1	14
West Virginia	4,438	5,023	-11.6%	3,421	4,411	1,017	612	0	0	0	0
East South Central	8,099	8,304	-2.5%	7,851	8,018	224	247	0	0	24	39
Alabama	2,051	2,195	-6.5%	2,051	2,191	0	0	0	0	0	NM
Kentucky	4,023	4,735	-15.0%	4,023	4,735	0	0	0	0	0	0
Mississippi	481	471	2.1%	257	224	224	247	0	0	0	0
Tennessee	1,544	903	71.0%	1,520	869	0	0	0	0	24	34
West South Central	9,103	12,047	-24.4%	4,481	6,465	4,619	5,571	0	0	3	11
Arkansas	1,255	2,214	-43.3%	981	1,813	271	400	0	0	3	1
Louisiana	584	692	-15.7%	568	670	15	22	0	0	0	0
Oklahoma	670	745	-10.1%	670	703	0	32	0	0	0	10
Texas	6,595	8,396	-21.5%	2,263	3,279	4,332	5,117	0	0	0	0
Mountain	8,442	10,287	-17.9%	7,967	9,279	450	979	0	0	NM	29
Arizona	1,217	1,904	-36.1%	1,217	1,904	0	0	0	0	0	0
Colorado	1,544	1,765	-12.5%	1,544	1,765	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	307	835	-63.2%	19	24	288	811	0	0	NM	NM
Nevada	207	189	9.7%	142	121	65	68	0	0	0	0
New Mexico	1,170	1,351	-13.4%	1,170	1,351	0	0	0	0	0	0
Utah	1,624	1,747	-7.0%	1,587	1,709	37	37	0	0	0	0
Wyoming	2,372	2,495	-4.9%	2,289	2,406	60	62	0	0	NM	28
Pacific Contiguous	22	146	-84.9%	0	0	0	122	0	0	22	24
California	21	23	-8.4%	0	0	0	0	0	0	21	23
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	123	-99.0%	0	0	0	122	0	0	1	1
Pacific Noncontiguous	131	139	-5.6%	NM	NM	94	101	NM	NM	6	0
Alaska	49	52	-4.4%	NM	NM	NM	13	NM	NM	6	0
Hawaii	82	87	-6.3%	0	0	82	87	0	0	0	0
U.S. Total	65,475	78,610	-16.7%	49,684	60,148	15,363	17,943	21	14	407	504

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

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

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

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

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

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

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

by State, by Sector, Year-to-Date through June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	78	311	-75.0%	56	207	12	90	0	0	11	14
Connecticut	-13	60	-121.7%	0	0	-13	60	0	0	0	0
Maine	35	44	-19.6%	0	0	25	30	0	0	11	14
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	56	207	-73.1%	56	207	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	11,494	20,760	-44.6%	0	0	11,465	20,696	0	0	29	64
New Jersey	458	532	-14.0%	0	0	458	532	0	0	0	0
New York	144	343	-58.1%	0	0	144	343	0	0	0	0
Pennsylvania	10,892	19,885	-45.2%	0	0	10,863	19,821	0	0	29	64
East North Central	74,007	113,386	-34.7%	42,237	65,747	30,812	46,619	18	35	940	984
Illinois	12,889	25,018	-48.5%	821	1,836	11,295	22,411	11	16	763	755
Indiana	19,816	31,129	-36.3%	17,523	29,313	2,286	1,798	7	19	0	0
Michigan	11,423	19,305	-40.8%	11,212	19,115	192	158	0	0	19	31
Ohio	19,000	24,770	-23.3%	1,961	2,516	17,039	22,252	0	0	0	2
Wisconsin	10,879	13,164	-17.4%	10,721	12,968	0	0	0	0	158	195
West North Central	61,975	78,974	-21.5%	60,990	77,801	0	0	26	39	959	1,134
Iowa	5,463	11,350	-51.9%	4,754	10,568	0	0	23	33	686	749
Kansas	6,922	8,035	-13.8%	6,922	8,035	0	0	0	0	0	0
Minnesota	5,085	9,299	-45.3%	5,006	9,110	0	0	0	1	79	189
Missouri	22,799	27,778	-17.9%	22,795	27,772	0	0	3	5	0	0
Nebraska	9,158	9,388	-2.5%	9,010	9,237	0	0	0	0	147	151
North Dakota	11,799	11,748	0.4%	11,753	11,703	0	0	0	0	47	45
South Dakota	750	1,377	-45.6%	750	1,377	0	0	0	0	0	0
South Atlantic	46,178	73,489	-37.2%	41,275	65,984	4,647	7,171	20	27	237	308
Delaware	-15	31	-150.4%	0	0	-15	31	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,189	9,734	-36.4%	6,168	9,701	0	0	0	0	21	33
Georgia	3,238	11,984	-73.0%	3,149	11,900	0	0	0	0	89	84
Maryland	1,070	2,280	-53.0%	0	0	1,070	2,248	0	0	0	32
North Carolina	7,083	12,167	-41.8%	6,951	11,975	47	102	19	23	66	67
South Carolina	4,833	6,972	-30.7%	4,802	6,965	28	0	0	0	4	6
Virginia	893	1,546	-42.2%	825	1,347	10	109	1	4	57	86
West Virginia	22,887	28,777	-20.5%	19,379	24,095	3,508	4,682	0	0	0	0
East South Central	36,033	48,323	-25.4%	34,387	46,681	1,440	1,392	0	0	206	250
Alabama	8,799	12,717	-30.8%	8,792	12,694	0	0	0	0	NM	22
Kentucky	20,112	25,734	-21.8%	20,112	25,734	0	0	0	0	0	0
Mississippi	2,054	2,411	-14.8%	614	1,019	1,440	1,392	0	0	0	0
Tennessee	5,068	7,462	-32.1%	4,869	7,234	0	0	0	0	199	227
West South Central	42,068	64,769	-35.0%	18,435	34,713	23,563	29,975	0	0	71	81
Arkansas	5,870	10,959	-46.4%	4,417	9,238	1,435	1,701	0	0	18	20
Louisiana	1,646	3,873	-57.5%	1,530	2,706	116	1,167	0	0	0	0
Oklahoma	1,436	4,522	-68.2%	1,295	4,373	89	88	0	0	52	60
Texas	33,116	45,414	-27.1%	11,193	18,396	21,923	27,018	0	0	0	0
Mountain	49,719	65,862	-24.5%	44,449	58,463	5,080	7,217	0	0	189	181
Arizona	5,220	11,366	-54.1%	5,220	11,366	0	0	0	0	0	0
Colorado	9,543	12,001	-20.5%	9,543	11,997	0	0	0	0	0	4
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	4,258	6,349	-32.9%	112	140	4,141	6,206	0	0	NM	NM
Nevada	722	1,276	-43.4%	243	814	479	462	0	0	0	0
New Mexico	5,689	6,664	-14.6%	5,689	6,664	0	0	0	0	0	0
Utah	9,398	11,563	-18.7%	9,274	11,358	124	205	0	0	0	0
Wyoming	14,879	16,634	-10.5%	14,368	16,124	336	345	0	0	175	165
Pacific Contiguous	1,901	3,327	-42.9%	628	805	1,120	2,366	0	0	153	156
California	139	144	-3.0%	0	0	0	0	0	0	139	144
Oregon	628	805	-21.9%	628	805	0	0	0	0	0	0
Washington	1,133	2,379	-52.4%	0	0	1,120	2,366	0	0	13	13
Pacific Noncontiguous	914	928	-1.5%	210	200	648	681	56	46	0	0
Alaska	354	328	8.0%	210	200	87	81	56	46	0	0
Hawaii	561	600	-6.6%	0	0	561	600	0	0	0	0
U.S. Total	324,367	470,129	-31.0%	242,668	350,601	78,786	116,208	120	147	2,793	3,172

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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 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	17	12	44.7%	4	2	11	8	NM	NM	NM	1
Connecticut	NM	NM	NM	0	0	NM	NM	NM	NM	0	0
Maine	5	1	283.6%	0	0	4	0	0	0	NM	1
Massachusetts	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
New Hampshire	3	1	143.5%	2	1	NM	NM	0	0	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	29	17	69.3%	7	NM	20	12	NM	NM	1	2
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	14	8	73.0%	7	NM	6	NM	NM	NM	0	1
Pennsylvania	12	7	77.7%	0	0	11	6	0	1	1	NM
East North Central	37	56	-33.4%	23	38	13	16	0	NM	0	1
Illinois	4	4	0.7%	1	1	3	3	NM	NM	0	0
Indiana	10	19	-44.6%	10	18	0	0	0	NM	0	0
Michigan	9	10	-14.1%	9	10	0	0	NM	NM	NM	0
Ohio	11	20	-45.1%	1	6	10	13	0	0	0	0
Wisconsin	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
West North Central	32	24	37.3%	32	23	NM	NM	0	0	0	0
Iowa	11	8	45.7%	11	7	NM	0	0	0	0	0
Kansas	4	5	-16.2%	4	5	0	0	0	0	0	0
Minnesota	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Missouri	8	3	149.6%	8	3	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	3	2	21.7%	3	2	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	100	124	-19.3%	71	100	16	12	4	4	8	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	24	45	-45.7%	23	44	NM	NM	0	0	2	NM
Georgia	9	12	-28.5%	3	5	NM	NM	0	0	5	6
Maryland	10	5	113.3%	NM	0	10	5	0	0	0	0
North Carolina	18	21	-13.0%	17	19	NM	NM	NM	NM	NM	NM
South Carolina	7	8	-6.1%	NM	7	0	0	0	0	0	0
Virginia	23	17	36.5%	16	10	2	3	4	3	NM	NM
West Virginia	6	14	-56.1%	6	14	0	0	0	0	0	0
East South Central	19	28	-32.1%	18	27	0	NM	0	0	1	NM
Alabama	2	1	71.3%	1	1	0	NM	0	0	NM	NM
Kentucky	8	6	35.5%	8	6	0	0	0	0	0	0
Mississippi	1	1	-49.6%	0	1	0	0	0	0	0	0
Tennessee	9	20	-55.9%	9	20	0	0	0	0	0	0
West South Central	17	10	74.1%	15	9	2	0	0	0	0	1
Arkansas	6	3	117.4%	5	3	1	0	0	0	0	0
Louisiana	2	1	66.6%	2	1	0	0	0	0	0	0
Oklahoma	5	1	212.8%	4	1	0	0	0	0	0	0
Texas	4	4	0.5%	3	4	NM	0	0	0	NM	0
Mountain	15	19	-21.6%	14	17	1	2	NM	0	0	0
Arizona	4	6	-30.1%	4	6	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	0
Idaho	0	0	-100.0%	0	0	0	0	0	0	0	0
Montana	NM	2	NM	NM	NM	1	2	0	0	0	0
Nevada	1	2	-58.1%	1	1	0	0	0	0	0	0
New Mexico	NM	2	NM	NM	2	0	0	0	0	0	0
Utah	3	2	27.5%	2	2	0	0	0	0	0	0
Wyoming	5	5	-11.4%	5	5	0	0	0	0	0	0
Pacific Contiguous	6	7	-14.1%	NM	3	0	3	0	0	3	NM
California	5	3	60.9%	NM	3	0	0	0	0	2	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	NM	4	NM	NM	NM	NM	3	0	0	NM	NM
Pacific Noncontiguous	577	680	-15.2%	443	503	115	155	0	1	19	22
Alaska	74	69	8.3%	71	65	0	0	NM	0	3	4
Hawaii	503	612	-17.8%	371	438	115	155	0	1	16	18
U.S. Total	849	976	-13.0%	629	724	179	209	7	7	34	36

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

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

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

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

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

by State, by Sector, Year-to-Date through June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	71	135	-47.7%	12	14	44	94	10	18	5	9
Connecticut	21	45	-52.2%	2	2	18	38	NM	3	0	2
Maine	15	12	23.0%	0	0	11	5	1	1	4	6
Massachusetts	17	54	-67.5%	NM	NM	10	41	3	5	0	1
New Hampshire	10	14	-25.4%	4	5	NM	NM	6	8	0	0
Rhode Island	NM	10	NM	0	0	NM	NM	1	2	NM	NM
Vermont	1	NM	NM	1	NM	0	0	0	0	0	0
Middle Atlantic	130	528	-75.4%	23	162	96	344	NM	7	6	15
New Jersey	23	51	-54.0%	0	1	23	48	0	1	0	1
New York	70	372	-81.1%	23	161	41	195	NM	NM	3	12
Pennsylvania	36	106	-65.7%	0	0	32	101	1	2	3	3
East North Central	168	256	-34.4%	110	152	56	95	0	1	3	8
Illinois	9	21	-58.8%	3	3	6	18	0	NM	0	0
Indiana	52	71	-27.5%	51	67	0	0	0	NM	1	4
Michigan	35	47	-24.7%	35	45	0	0	NM	1	1	1
Ohio	56	92	-38.7%	7	19	48	70	0	0	1	3
Wisconsin	16	25	-35.8%	15	18	1	7	NM	0	0	0
West North Central	136	173	-21.8%	132	166	NM	5	0	1	1	1
Iowa	18	38	-53.0%	17	36	1	2	0	0	0	0
Kansas	41	31	34.6%	41	31	0	0	0	0	0	0
Minnesota	18	24	-23.9%	16	19	NM	NM	0	1	1	1
Missouri	29	44	-33.6%	29	44	0	0	0	0	0	0
Nebraska	NM	11	NM	NM	11	0	0	0	0	0	0
North Dakota	18	22	-17.1%	18	22	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	395	664	-40.4%	282	484	56	113	20	16	38	51
Delaware	11	26	-57.4%	0	0	11	26	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	98	158	-37.9%	89	150	2	1	0	0	7	8
Georgia	11	69	-84.2%	-13	31	NM	5	1	1	21	32
Maryland	26	41	-36.6%	0	0	27	40	NM	0	0	1
North Carolina	73	136	-46.1%	66	127	NM	4	NM	NM	5	5
South Carolina	35	50	-30.0%	32	44	0	1	0	0	2	4
Virginia	71	125	-43.5%	38	74	11	35	19	14	3	2
West Virginia	70	58	20.9%	70	57	0	0	0	0	0	0
East South Central	90	142	-36.7%	85	134	1	1	0	0	4	7
Alabama	4	11	-61.3%	2	6	0	1	0	0	NM	3
Kentucky	27	38	-29.0%	27	38	0	0	0	0	0	0
Mississippi	4	9	-55.9%	3	8	0	0	0	0	1	1
Tennessee	55	85	-35.0%	54	83	0	0	0	0	1	2
West South Central	57	72	-20.4%	43	51	13	16	0	0	1	5
Arkansas	19	25	-26.3%	14	17	4	7	0	0	0	1
Louisiana	5	6	-16.7%	5	6	0	0	0	0	0	0
Oklahoma	9	11	-11.6%	9	10	0	0	0	0	0	1
Texas	25	30	-19.2%	15	19	8	9	0	0	1	2
Mountain	83	110	-24.8%	78	102	5	8	NM	NM	0	0
Arizona	18	35	-48.8%	18	35	0	0	NM	NM	0	0
Colorado	NM	6	NM	NM	6	0	0	0	0	0	0
Idaho	0	0	-71.5%	0	0	0	0	0	0	0	0
Montana	4	8	-52.4%	NM	NM	3	6	0	0	0	0
Nevada	3	6	-51.0%	2	5	1	1	0	0	0	0
New Mexico	15	18	-20.6%	15	18	0	0	0	0	0	0
Utah	18	19	-3.8%	17	19	1	0	0	0	0	0
Wyoming	21	18	14.3%	21	18	0	0	0	0	0	0
Pacific Contiguous	32	38	-15.7%	18	19	5	6	0	0	8	12
California	22	27	-17.5%	15	17	2	1	0	0	4	8
Oregon	1	1	-9.8%	1	1	0	0	0	0	0	0
Washington	9	10	-11.2%	2	NM	3	5	0	0	NM	4
Pacific Noncontiguous	3,392	3,576	-5.2%	2,646	2,658	618	784	5	7	123	127
Alaska	472	409	15.2%	445	383	0	0	2	4	25	22
Hawaii	2,920	3,167	-7.8%	2,201	2,275	618	784	3	3	98	105
U.S. Total	4,553	5,695	-20.0%	3,429	3,942	896	1,466	40	51	188	235

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

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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, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 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	10	-100.0%	0	0	0	0	0	0	0	10
New Jersey	0	5	-100.0%	0	0	0	0	0	0	0	5
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	5	-100.0%	0	0	0	0	0	0	0	5
East North Central	214	96	123.9%	94	8	104	75	0	0	17	13
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	102	12	730.8%	86	0	0	0	0	0	17	12
Ohio	104	75	38.5%	0	0	104	75	0	0	0	0
Wisconsin	8	8	-2.6%	8	8	0	0	0	0	0	0
West North Central	6	5	32.4%	0	0	0	0	0	0	6	5
Iowa	6	5	32.4%	0	0	0	0	0	0	6	5
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	193	132	46.0%	174	116	0	0	0	0	19	16
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	174	116	49.4%	174	116	0	0	0	0	0	0
Georgia	19	16	21.2%	0	0	0	0	0	0	19	16
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	387	284	36.3%	380	274	0	0	0	0	7	10
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	380	274	38.7%	380	274	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	7	10	-31.5%	0	0	0	0	0	0	7	10
Mountain	26	28	-8.4%	0	0	26	28	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	26	28	-8.4%	0	0	26	28	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	827	555	48.9%	647	398	130	103	0	0	49	54

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

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

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

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

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

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

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

by State, by Sector, Year-to-Date through June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 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	71	-76.4%	0	0	0	0	0	0	17	71
New Jersey	17	33	-49.4%	0	0	0	0	0	0	17	33
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	38	-100.0%	0	0	0	0	0	0	0	38
East North Central	1,020	996	2.3%	414	382	534	552	0	0	72	62
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	446	404	10.5%	374	343	0	0	0	0	72	60
Ohio	534	554	-3.6%	0	0	534	552	0	0	0	2
Wisconsin	40	39	3.1%	40	39	0	0	0	0	0	0
West North Central	31	9	253.6%	0	0	0	0	2	4	29	5
Iowa	31	9	253.6%	0	0	0	0	2	4	29	5
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	835	777	7.4%	743	682	0	0	0	0	92	95
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	743	682	8.9%	743	682	0	0	0	0	0	0
Georgia	92	95	-3.5%	0	0	0	0	0	0	92	95
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	1,803	1,880	-4.1%	1,761	1,824	0	0	0	0	42	56
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,761	1,830	-3.7%	1,761	1,824	0	0	0	0	0	6
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	42	50	-17.0%	0	0	0	0	0	0	42	50
Mountain	226	240	-5.9%	0	0	226	240	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	226	240	-5.9%	0	0	226	240	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,931	3,973	-1.1%	2,918	2,888	760	792	2	4	251	289

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

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

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

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

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

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	4,757	3,948	20.5%	NM	NM	4,501	3,726	94	89	130	122
Connecticut	2,130	1,715	24.2%	4	3	2,036	1,626	34	32	57	54
Maine	248	123	102.3%	0	0	203	84	3	3	42	35
Massachusetts	1,183	1,121	5.5%	NM	NM	1,087	1,047	52	48	16	18
New Hampshire	403	349	15.7%	1	0	399	345	1	1	2	2
Rhode Island	793	641	23.7%	0	0	775	624	5	5	13	12
Vermont	0	0	38.3%	0	0	0	0	0	0	0	0
Middle Atlantic	18,360	15,797	16.2%	1,017	861	17,055	14,640	85	92	204	204
New Jersey	2,912	3,423	-14.9%	NM	NM	2,856	3,364	NM	12	35	34
New York	5,060	3,993	26.7%	1,002	848	3,940	3,030	71	70	47	45
Pennsylvania	10,389	8,381	24.0%	1	0	10,259	8,247	6	9	123	124
East North Central	14,419	12,626	14.2%	5,161	4,204	8,785	7,999	118	113	354	311
Illinois	2,349	1,533	53.2%	336	115	1,926	1,335	29	30	59	53
Indiana	3,014	2,516	19.8%	1,355	1,075	1,465	1,281	18	10	175	150
Michigan	3,037	2,523	20.4%	1,048	791	1,900	1,644	44	46	45	41
Ohio	4,080	4,336	-5.9%	690	664	3,349	3,634	22	22	20	17
Wisconsin	1,939	1,718	12.9%	1,733	1,559	145	104	5	4	56	50
West North Central	2,961	2,813	5.3%	2,529	2,345	360	382	30	30	41	57
Iowa	694	681	1.9%	655	628	NM	NM	11	11	28	41
Kansas	276	369	-25.2%	274	365	0	0	0	0	NM	NM
Minnesota	867	811	6.9%	719	707	130	89	10	6	8	8
Missouri	742	689	7.8%	500	383	230	292	10	12	2	2
Nebraska	155	80	95.1%	155	79	0	0	0	1	0	0
North Dakota	105	92	13.5%	104	91	0	0	0	0	1	1
South Dakota	122	91	34.1%	122	91	0	0	0	0	0	0
South Atlantic	36,129	35,693	1.2%	29,729	29,773	5,858	5,380	88	99	453	440
Delaware	537	418	28.4%	1	3	449	313	0	0	87	102
District of Columbia	3	3	12.6%	0	0	0	0	3	3	0	0
Florida	17,649	17,369	1.6%	16,704	16,438	806	794	2	1	136	135
Georgia	5,548	5,162	7.5%	4,179	3,810	1,310	1,302	0	0	59	50
Maryland	1,204	1,196	0.6%	218	316	906	788	77	88	4	4
North Carolina	3,518	3,479	1.1%	2,802	2,713	696	748	NM	NM	14	12
South Carolina	1,957	2,309	-15.2%	1,892	2,261	51	38	0	0	15	9
Virginia	5,421	5,579	-2.8%	3,925	4,214	1,419	1,297	0	1	78	67
West Virginia	292	178	64.1%	10	17	222	100	0	0	60	61
East South Central	12,997	11,871	9.5%	9,234	8,107	3,519	3,519	19	19	225	227
Alabama	5,395	5,263	2.5%	1,880	1,956	3,408	3,200	0	0	107	108
Kentucky	1,401	1,154	21.5%	1,282	1,118	110	16	0	0	10	19
Mississippi	4,852	3,926	23.6%	4,814	3,597	1	300	0	0	38	29
Tennessee	1,349	1,528	-11.7%	1,257	1,436	1	2	19	19	71	72
West South Central	35,544	36,869	-3.6%	13,249	13,417	16,786	17,805	94	78	5,415	5,570
Arkansas	1,630	1,985	-17.9%	1,517	1,855	92	103	NM	NM	18	23
Louisiana	6,509	6,805	-4.3%	3,907	4,193	393	485	15	NM	2,193	2,118
Oklahoma	4,190	4,234	-1.1%	2,832	2,561	1,311	1,640	0	0	47	33
Texas	23,214	23,846	-2.6%	4,993	4,807	14,989	15,576	76	67	3,157	3,395
Mountain	10,548	9,927	6.3%	8,531	8,231	1,858	1,552	31	30	128	114
Arizona	4,595	4,145	10.9%	3,585	3,058	998	1,076	11	11	0	0
Colorado	1,666	1,371	21.5%	1,421	1,239	243	131	0	0	2	2
Idaho	210	313	-32.9%	89	155	109	145	3	3	NM	10
Montana	NM	27	NM	NM	25	NM	NM	0	0	NM	NM
Nevada	2,271	2,354	-3.5%	2,047	2,142	187	184	6	5	31	24
New Mexico	950	911	4.2%	628	894	314	NM	8	8	0	0
Utah	730	728	0.2%	695	695	6	6	2	3	27	25
Wyoming	97	77	25.9%	38	24	0	0	0	0	59	53
Pacific Contiguous	7,329	7,219	1.5%	2,676	2,810	3,615	3,394	126	142	912	873
California	6,311	5,049	25.0%	2,035	1,536	3,319	2,513	121	138	836	862
Oregon	567	1,255	-54.8%	318	661	235	584	4	3	NM	6
Washington	451	915	-50.7%	323	613	NM	296	1	0	66	5
Pacific Noncontiguous	203	232	-12.7%	197	226	0	0	0	0	6	6
Alaska	203	232	-12.7%	197	226	0	0	0	0	6	6
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	143,247	136,994	4.6%	72,356	69,984	62,337	58,397	686	690	7,868	7,923

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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 June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	22,681	21,831	3.9%	60	41	21,350	20,587	523	505	748	698
Connecticut	11,052	9,525	16.0%	16	18	10,517	9,026	193	184	325	297
Maine	771	705	9.4%	0	0	529	503	15	15	226	187
Massachusetts	5,755	7,248	-20.6%	NM	NM	5,313	6,818	289	279	112	129
New Hampshire	1,472	1,117	31.7%	1	1	1,453	1,096	4	5	13	15
Rhode Island	3,630	3,235	12.2%	0	0	3,538	3,144	22	21	71	70
Vermont	1	1	-6.9%	0	0	0	0	1	1	0	0
Middle Atlantic	90,989	82,043	10.9%	4,395	4,305	84,897	75,979	497	536	1,200	1,223
New Jersey	13,787	18,247	-24.4%	NM	52	13,477	17,938	51	63	207	194
New York	22,657	20,679	9.6%	4,342	4,251	17,620	15,730	394	407	300	291
Pennsylvania	54,546	43,117	26.5%	1	2	53,800	42,312	52	66	693	738
East North Central	79,963	70,876	12.8%	27,585	22,878	49,617	45,389	696	693	2,066	1,917
Illinois	9,690	7,400	30.9%	1,401	430	7,814	6,507	178	171	297	292
Indiana	16,085	14,524	10.7%	6,845	5,829	8,212	7,725	88	81	940	888
Michigan	17,621	15,035	17.2%	5,605	4,256	11,399	10,166	297	309	320	304
Ohio	25,457	24,529	3.8%	3,652	3,843	21,588	20,470	94	102	123	115
Wisconsin	11,111	9,388	18.3%	10,082	8,520	604	521	38	30	386	318
West North Central	14,005	13,165	6.4%	11,578	11,091	1,847	1,535	162	167	419	371
Iowa	3,379	3,240	4.3%	3,092	2,950	NM	NM	49	51	238	237
Kansas	1,249	1,379	-9.4%	1,163	1,328	0	0	0	0	87	50
Minnesota	4,395	4,250	3.4%	3,722	3,753	559	379	50	53	64	64
Missouri	3,225	3,160	2.0%	1,855	1,929	1,288	1,153	61	62	20	16
Nebraska	504	285	76.9%	502	283	0	0	2	2	0	0
North Dakota	616	458	34.4%	607	454	0	0	0	0	9	5
South Dakota	637	394	61.7%	637	394	0	0	0	0	0	0
South Atlantic	191,681	179,070	7.0%	158,542	148,834	29,926	27,164	545	590	2,668	2,482
Delaware	2,079	1,988	4.6%	1	4	1,522	1,440	0	0	556	544
District of Columbia	16	14	11.4%	0	0	0	0	16	14	0	0
Florida	90,256	84,882	6.3%	85,802	81,116	3,635	2,975	12	10	807	781
Georgia	27,609	26,022	6.1%	20,775	19,754	6,476	5,959	0	0	358	309
Maryland	6,774	7,365	-8.0%	1,489	2,107	4,804	4,702	457	515	23	41
North Carolina	20,161	19,734	2.2%	16,132	15,662	3,889	3,953	52	43	89	76
South Carolina	12,031	10,986	9.5%	11,718	10,599	220	327	0	0	93	60
Virginia	31,691	27,442	15.5%	22,606	19,519	8,643	7,532	8	7	433	383
West Virginia	1,064	635	67.5%	18	72	737	274	0	0	309	289
East South Central	64,946	62,394	4.1%	46,641	41,940	16,780	18,975	112	101	1,414	1,379
Alabama	25,188	26,401	-4.6%	8,541	9,443	15,995	16,310	0	0	653	648
Kentucky	6,460	6,518	-0.9%	6,174	6,267	172	135	0	0	114	117
Mississippi	26,026	21,756	19.6%	25,189	19,011	605	2,521	0	0	232	224
Tennessee	7,272	7,718	-5.8%	6,737	7,218	8	9	112	101	415	390
West South Central	179,881	173,004	4.0%	63,690	58,145	82,169	80,957	433	463	33,589	33,438
Arkansas	7,498	8,964	-16.4%	6,723	8,145	641	636	NM	NM	116	165
Louisiana	35,111	33,742	4.1%	20,655	18,337	1,692	2,132	93	74	12,671	13,200
Oklahoma	21,878	18,647	17.3%	13,908	11,638	7,723	6,821	0	0	247	187
Texas	115,395	111,652	3.4%	22,403	20,025	72,114	71,369	323	371	20,555	19,887
Mountain	55,191	49,266	12.0%	44,040	39,493	10,185	8,852	195	208	771	712
Arizona	21,810	18,813	15.9%	16,630	14,145	5,114	4,600	66	68	0	0
Colorado	8,946	7,733	15.7%	7,700	6,660	1,229	1,062	5	1	12	10
Idaho	1,735	1,199	44.7%	788	641	861	478	20	19	66	60
Montana	172	218	-20.9%	151	144	20	72	0	0	NM	2
Nevada	12,116	11,099	9.2%	10,900	9,898	1,055	1,042	29	32	133	127
New Mexico	5,782	5,223	10.7%	3,855	3,612	1,871	1,561	46	49	10	1
Utah	4,016	4,524	-11.2%	3,796	4,253	35	36	31	39	155	196
Wyoming	615	457	34.4%	220	140	1	1	0	0	393	316
Pacific Contiguous	49,442	46,569	6.2%	19,977	17,707	23,454	22,839	787	842	5,224	5,181
California	35,104	33,448	5.0%	11,366	10,807	18,054	16,729	756	814	4,927	5,098
Oregon	8,557	8,480	0.9%	4,433	4,049	4,037	4,371	24	21	64	39
Washington	5,781	4,641	24.6%	4,178	2,851	1,363	1,739	7	7	233	44
Pacific Noncontiguous	1,413	1,274	10.9%	1,381	1,238	0	0	0	0	32	36
Alaska	1,413	1,274	10.9%	1,381	1,238	0	0	0	0	32	36
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	750,193	699,493	7.2%	377,886	345,672	320,226	302,278	3,951	4,107	48,130	47,436

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-June 2020
(Thousand Megawatthours)**

Period	Natural Gas					Total
	Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Natural Gas Other	
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
May	98,720	9,178	7,892	436	9	116,236
June	118,512	13,018	11,145	560	13	143,247

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, June 2020 and 2019 (Thousand Megawatthours)**

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 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	NM	58	NM	0	0	0	0	0	0	NM	58
New Jersey	14	18	-24.0%	0	0	0	0	0	0	14	18
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	40	NM	0	0	0	0	0	0	NM	40
East North Central	154	408	-62.3%	1	23	NM	174	0	0	135	211
Illinois	20	19	5.5%	0	0	0	0	0	0	20	19
Indiana	106	181	-41.6%	0	0	0	0	0	0	106	181
Michigan	1	152	-99.4%	1	23	0	129	0	0	0	0
Ohio	NM	56	NM	0	0	NM	45	0	0	9	11
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	3	4	-21.9%	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	-21.9%	0	0	0	0	0	0	3	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	22	17	33.4%	0	0	0	0	0	0	22	17
Delaware	18	13	41.8%	0	0	0	0	0	0	18	13
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-32.7%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	4	3	2.6%	0	0	0	0	0	0	4	3
East South Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Alabama	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	-33.4%	0	0	0	0	0	0	1	1
West South Central	449	358	25.3%	0	0	114	119	0	0	335	239
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	242	149	62.2%	0	0	0	0	0	0	242	149
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	206	209	-1.2%	0	0	114	119	0	0	92	89
Mountain	30	22	38.2%	0	0	0	1	0	0	30	21
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	1	-45.3%	0	0	0	1	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	2	-83.6%	0	0	0	0	0	0	0	2
Wyoming	29	19	52.4%	0	0	0	0	0	0	29	19
Pacific Contiguous	145	157	-7.5%	0	0	0	30	0	0	145	126
California	121	126	-4.3%	0	0	0	0	0	0	121	126
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	24	30	-21.0%	0	0	0	30	0	0	24	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	832	1,025	-18.8%	1	23	133	325	0	0	698	677

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 June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 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	359	370	-2.7%	0	0	26	0	0	0	333	370
New Jersey	102	104	-1.3%	0	0	0	0	0	0	102	104
New York	0	2	-100.0%	0	0	0	0	0	0	0	2
Pennsylvania	257	264	-2.7%	0	0	26	0	0	0	231	264
East North Central	1,907	2,510	-24.0%	41	88	609	1,082	0	0	1,256	1,339
Illinois	152	119	27.7%	0	0	0	0	0	0	152	119
Indiana	1,038	1,135	-8.5%	0	0	0	0	0	0	1,038	1,135
Michigan	395	878	-55.0%	41	88	354	790	0	0	0	0
Ohio	321	378	-15.0%	0	0	256	292	0	0	66	86
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	20	25	-20.2%	0	0	0	0	0	0	20	25
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	20	25	-20.2%	0	0	0	0	0	0	20	25
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	100	99	0.4%	0	0	0	0	0	0	100	99
Delaware	76	78	-3.2%	0	0	0	0	0	0	76	78
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-36.4%	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	24	21	13.8%	0	0	0	0	0	0	24	21
East South Central	8	8	8.0%	0	0	0	0	0	0	8	8
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	6	5	2.6%	0	0	0	0	0	0	6	5
West South Central	2,540	2,649	-4.1%	0	0	768	860	0	0	1,772	1,789
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,247	1,248	-0.1%	0	0	0	0	0	0	1,247	1,248
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,293	1,401	-7.7%	0	0	768	860	0	0	525	541
Mountain	202	153	32.0%	0	0	6	3	0	0	196	150
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	6	3	75.3%	0	0	6	3	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	7	-88.6%	0	0	0	0	0	0	1	7
Wyoming	196	143	36.7%	0	0	0	0	0	0	196	143
Pacific Contiguous	909	857	6.1%	0	0	87	129	0	0	823	728
California	755	728	3.7%	0	0	0	0	0	0	755	728
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	155	129	20.1%	0	0	87	129	0	0	68	0
Pacific Noncontiguous	3	4	-18.4%	0	0	0	0	0	0	3	4
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	3	4	-18.4%	0	0	0	0	0	0	3	4
U.S. Total	6,049	6,673	-9.4%	41	88	1,496	2,075	0	0	4,511	4,511

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

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

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

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

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

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	2,114	2,401	-12.0%	0	0	2,114	2,401	0	0	0	0
Connecticut	1,381	1,503	-8.1%	0	0	1,381	1,503	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	733	898	-18.4%	0	0	733	898	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	12,146	12,861	-5.6%	0	0	12,146	12,861	0	0	0	0
New Jersey	2,512	1,964	27.9%	0	0	2,512	1,964	0	0	0	0
New York	3,119	3,809	-18.1%	0	0	3,119	3,809	0	0	0	0
Pennsylvania	6,515	7,088	-8.1%	0	0	6,515	7,088	0	0	0	0
East North Central	12,969	13,807	-6.1%	1,592	2,416	11,377	11,391	0	0	0	0
Illinois	8,396	8,451	-0.7%	0	0	8,396	8,451	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,163	2,993	-27.7%	1,592	2,416	571	577	0	0	0	0
Ohio	1,542	1,495	3.2%	0	0	1,542	1,495	0	0	0	0
Wisconsin	868	868	0.0%	0	0	868	868	0	0	0	0
West North Central	3,777	3,960	-4.6%	3,488	3,527	289	433	0	0	0	0
Iowa	289	433	-33.2%	0	0	289	433	0	0	0	0
Kansas	868	870	-0.3%	868	870	0	0	0	0	0	0
Minnesota	1,196	1,229	-2.7%	1,196	1,229	0	0	0	0	0	0
Missouri	862	865	-0.3%	862	865	0	0	0	0	0	0
Nebraska	562	562	-0.1%	562	562	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	17,307	17,370	-0.4%	16,029	16,097	1,279	1,273	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	2,657	2,153	23.4%	2,657	2,153	0	0	0	0	0	0
Georgia	2,688	2,910	-7.6%	2,688	2,910	0	0	0	0	0	0
Maryland	1,279	1,273	0.5%	0	0	1,279	1,273	0	0	0	0
North Carolina	3,409	3,699	-7.8%	3,409	3,699	0	0	0	0	0	0
South Carolina	4,782	4,792	-0.2%	4,782	4,792	0	0	0	0	0	0
Virginia	2,493	2,544	-2.0%	2,493	2,544	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	7,559	8,180	-7.6%	7,559	8,180	0	0	0	0	0	0
Alabama	3,717	3,876	-4.1%	3,717	3,876	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	773	1,019	-24.1%	773	1,019	0	0	0	0	0	0
Tennessee	3,069	3,286	-6.6%	3,069	3,286	0	0	0	0	0	0
West South Central	6,433	5,495	17.1%	2,820	1,895	3,613	3,600	0	0	0	0
Arkansas	1,289	597	116.1%	1,289	597	0	0	0	0	0	0
Louisiana	1,531	1,299	17.9%	1,531	1,299	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,613	3,600	0.4%	0	0	3,613	3,600	0	0	0	0
Mountain	2,852	2,854	-0.1%	2,852	2,854	0	0	0	0	0	0
Arizona	2,852	2,854	-0.1%	2,852	2,854	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	2,048	1,878	9.1%	2,048	1,878	0	0	0	0	0	0
California	1,628	1,633	-0.3%	1,628	1,633	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	420	245	71.8%	420	245	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	67,205	68,805	-2.3%	36,388	36,847	30,817	31,958	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 June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	12,247	15,403	-20.5%	0	0	12,247	15,403	0	0	0	0
Connecticut	7,889	7,807	1.0%	0	0	7,889	7,807	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	2,177	-100.0%	0	0	0	2,177	0	0	0	0
New Hampshire	4,359	5,419	-19.6%	0	0	4,359	5,419	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	70,745	76,432	-7.4%	0	0	70,745	76,432	0	0	0	0
New Jersey	13,496	12,903	4.6%	0	0	13,496	12,903	0	0	0	0
New York	19,903	21,271	-6.4%	0	0	19,903	21,271	0	0	0	0
Pennsylvania	37,345	42,258	-11.6%	0	0	37,345	42,258	0	0	0	0
East North Central	78,167	78,547	-0.5%	11,655	12,902	66,513	65,645	0	0	0	0
Illinois	49,356	49,587	-0.5%	0	0	49,356	49,587	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	15,192	16,318	-6.9%	11,655	12,902	3,538	3,417	0	0	0	0
Ohio	8,718	7,900	10.4%	0	0	8,718	7,900	0	0	0	0
Wisconsin	4,901	4,742	3.3%	0	0	4,901	4,742	0	0	0	0
West North Central	23,956	21,992	8.9%	21,520	19,420	2,436	2,573	0	0	0	0
Iowa	2,436	2,573	-5.3%	0	0	2,436	2,573	0	0	0	0
Kansas	5,272	5,306	-0.6%	5,272	5,306	0	0	0	0	0	0
Minnesota	7,564	6,845	10.5%	7,564	6,845	0	0	0	0	0	0
Missouri	5,214	3,816	36.6%	5,214	3,816	0	0	0	0	0	0
Nebraska	3,470	3,452	0.5%	3,470	3,452	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	100,803	101,240	-0.4%	93,539	94,040	7,264	7,200	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	14,843	14,044	5.7%	14,843	14,044	0	0	0	0	0	0
Georgia	15,730	15,893	-1.0%	15,730	15,893	0	0	0	0	0	0
Maryland	7,264	7,200	0.9%	0	0	7,264	7,200	0	0	0	0
North Carolina	21,064	20,060	5.0%	21,064	20,060	0	0	0	0	0	0
South Carolina	26,915	29,154	-7.7%	26,915	29,154	0	0	0	0	0	0
Virginia	14,986	14,888	0.7%	14,986	14,888	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	42,337	45,586	-7.1%	42,337	45,586	0	0	0	0	0	0
Alabama	22,160	21,200	4.5%	22,160	21,200	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	2,545	5,561	-54.2%	2,545	5,561	0	0	0	0	0	0
Tennessee	17,632	18,824	-6.3%	17,632	18,824	0	0	0	0	0	0
West South Central	36,538	32,139	13.7%	16,420	11,974	20,118	20,164	0	0	0	0
Arkansas	7,069	7,128	-0.8%	0	0	7,069	7,128	0	0	0	0
Louisiana	9,350	4,847	92.9%	9,350	4,847	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	20,118	20,164	-0.2%	0	0	20,118	20,164	0	0	0	0
Mountain	15,884	16,192	-1.9%	15,884	16,192	0	0	0	0	0	0
Arizona	15,884	16,192	-1.9%	15,884	16,192	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	14,187	12,475	13.7%	14,187	12,475	0	0	0	0	0	0
California	9,703	8,679	11.8%	9,703	8,679	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4,484	3,796	18.1%	4,484	3,796	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	394,865	400,005	-1.3%	215,541	212,588	179,324	187,417	0	0	0	0

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

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

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

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

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

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

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	628	604	4.1%	89	87	530	507	0	0	NM	NM
Connecticut	42	43	-1.3%	NM	2	41	41	0	0	0	0
Maine	268	263	2.1%	NM	0	258	254	0	0	NM	NM
Massachusetts	93	90	3.3%	23	22	70	68	0	0	0	0
New Hampshire	120	105	14.2%	31	30	89	75	0	0	0	0
Rhode Island	0	0	-35.6%	0	0	0	0	0	0	0	0
Vermont	105	103	1.9%	33	34	71	69	0	0	0	0
Middle Atlantic	2,860	2,801	2.1%	2,141	2,104	716	691	0	1	NM	6
New Jersey	0	3	-91.8%	0	0	0	3	0	0	0	0
New York	2,514	2,460	2.2%	2,137	2,098	374	356	0	1	NM	6
Pennsylvania	345	338	2.1%	4	7	342	332	0	0	0	0
East North Central	473	363	30.2%	424	326	36	28	0	0	13	10
Illinois	13	10	34.9%	NM	NM	NM	7	0	0	0	0
Indiana	20	17	17.7%	20	17	0	0	0	0	0	0
Michigan	165	126	31.1%	153	115	NM	NM	0	0	NM	NM
Ohio	23	21	9.9%	20	20	3	1	0	0	0	0
Wisconsin	252	190	32.8%	226	171	NM	NM	0	0	12	9
West North Central	1,532	1,153	32.9%	1,496	1,122	29	NM	0	0	6	11
Iowa	97	70	38.8%	97	69	1	1	0	0	0	0
Kansas	3	0	952.3%	0	0	3	0	0	0	0	0
Minnesota	109	87	24.7%	77	57	25	NM	0	0	6	11
Missouri	83	68	21.7%	83	68	0	0	0	0	0	0
Nebraska	149	113	31.6%	149	113	0	0	0	0	0	0
North Dakota	364	267	36.3%	364	267	0	0	0	0	0	0
South Dakota	727	547	32.8%	727	547	0	0	0	0	0	0
South Atlantic	1,656	1,575	5.1%	1,429	1,234	167	281	2	1	58	58
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	NM	19	NM	NM	19	0	0	0	0	0	0
Georgia	331	287	15.7%	328	284	NM	NM	0	0	NM	1
Maryland	105	224	-53.3%	0	0	105	224	0	0	0	0
North Carolina	606	527	15.0%	599	521	NM	NM	1	1	NM	NM
South Carolina	279	238	17.0%	272	232	NM	NM	0	0	0	0
Virginia	166	132	26.0%	158	126	NM	6	0	0	0	0
West Virginia	151	149	1.9%	54	52	42	40	0	0	55	56
East South Central	2,156	2,008	7.3%	2,155	2,007	NM	NM	0	0	0	0
Alabama	900	859	4.8%	900	859	0	0	0	0	0	0
Kentucky	396	321	23.4%	395	320	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	859	828	3.8%	859	828	0	0	0	0	0	0
West South Central	659	573	15.1%	558	470	101	102	0	NM	0	0
Arkansas	274	236	15.9%	269	231	NM	NM	0	0	0	0
Louisiana	94	95	-0.5%	0	0	94	95	0	0	0	0
Oklahoma	182	158	14.9%	182	158	0	0	0	0	0	0
Texas	110	84	31.0%	107	81	2	3	0	NM	0	0
Mountain	3,627	2,947	23.1%	3,487	2,833	138	113	2	2	0	0
Arizona	593	603	-1.6%	593	603	0	0	0	0	0	0
Colorado	200	167	19.1%	173	143	24	23	2	2	0	0
Idaho	1,177	891	32.1%	1,086	821	91	70	0	0	0	0
Montana	1,216	917	32.7%	1,202	906	NM	NM	0	0	0	0
Nevada	219	194	12.8%	212	189	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	99	78	27.6%	99	76	0	1	0	0	0	0
Wyoming	106	83	27.6%	104	81	2	2	0	0	0	0
Pacific Contiguous	14,846	14,300	3.8%	14,628	13,977	217	322	NM	NM	0	0
California	2,579	4,851	-46.8%	2,432	4,581	147	268	NM	NM	0	0
Oregon	3,563	2,633	35.3%	3,537	2,612	26	NM	0	0	0	0
Washington	8,704	6,817	27.7%	8,659	6,784	44	33	0	0	0	0
Pacific Noncontiguous	184	144	27.4%	160	125	1	1	NM	NM	NM	NM
Alaska	180	139	29.7%	160	124	0	0	NM	NM	0	0
Hawaii	NM	NM	NM	0	1	1	1	0	0	NM	NM
U.S. Total	28,621	26,469	8.1%	26,566	24,285	1,937	2,066	25	21	93	97

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

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

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

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

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

by State, by Sector, Year-to-Date through June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	4,177	3,998	4.5%	608	587	3,505	3,349	3	3	61	59
Connecticut	291	289	0.8%	20	27	272	262	0	0	0	0
Maine	1,774	1,693	4.8%	NM	0	1,712	1,634	0	0	61	59
Massachusetts	616	591	4.3%	151	147	462	440	3	3	0	0
New Hampshire	787	748	5.3%	201	187	586	560	0	0	0	0
Rhode Island	3	2	9.9%	0	0	3	2	0	0	0	0
Vermont	706	675	4.6%	235	226	471	449	0	0	0	0
Middle Atlantic	17,961	16,943	6.0%	13,207	12,406	4,713	4,497	5	4	36	35
New Jersey	11	22	-49.4%	0	0	11	22	0	0	0	0
New York	15,638	14,709	6.3%	13,141	12,333	2,456	2,337	5	4	36	35
Pennsylvania	2,311	2,211	4.5%	65	73	2,246	2,138	0	0	0	0
East North Central	2,355	2,179	8.1%	2,099	1,939	189	177	0	1	68	62
Illinois	80	63	26.3%	30	21	50	42	0	1	0	0
Indiana	132	125	5.4%	132	125	0	0	0	0	0	0
Michigan	779	725	7.4%	723	665	50	55	0	0	NM	NM
Ohio	158	157	0.7%	138	138	20	NM	0	0	0	0
Wisconsin	1,207	1,109	8.8%	1,076	990	68	61	0	0	62	58
West North Central	7,441	6,832	8.9%	7,256	6,657	143	125	0	0	42	50
Iowa	473	415	13.8%	468	411	4	4	0	0	0	0
Kansas	18	11	70.6%	0	0	18	11	0	0	0	0
Minnesota	530	492	7.7%	367	332	121	110	0	0	42	50
Missouri	544	539	1.0%	544	539	0	0	0	0	0	0
Nebraska	706	652	8.2%	706	652	0	0	0	0	0	0
North Dakota	1,745	1,563	11.7%	1,745	1,563	0	0	0	0	0	0
South Dakota	3,426	3,160	8.4%	3,426	3,160	0	0	0	0	0	0
South Atlantic	11,328	11,009	2.9%	9,205	8,665	1,735	1,976	9	11	379	357
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	116	121	-4.4%	116	121	0	0	0	0	0	0
Georgia	2,269	2,097	8.2%	2,248	2,081	NM	NM	0	0	10	5
Maryland	1,338	1,591	-15.9%	0	0	1,338	1,591	0	0	0	0
North Carolina	3,796	3,576	6.2%	3,754	3,529	31	33	7	9	NM	NM
South Carolina	1,824	1,734	5.2%	1,780	1,690	42	43	2	2	0	0
Virginia	988	942	4.9%	954	907	35	35	0	0	0	0
West Virginia	996	948	5.0%	354	337	277	264	0	0	365	348
East South Central	14,557	13,773	5.7%	14,551	13,768	NM	NM	0	0	0	0
Alabama	6,762	6,381	6.0%	6,762	6,381	0	0	0	0	0	0
Kentucky	2,148	2,014	6.7%	2,143	2,008	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	5,647	5,379	5.0%	5,647	5,379	0	0	0	0	0	0
West South Central	4,349	4,137	5.1%	3,685	3,498	664	638	NM	NM	0	0
Arkansas	1,822	1,728	5.4%	1,794	1,704	28	25	0	0	0	0
Louisiana	620	590	5.0%	0	0	620	590	0	0	0	0
Oklahoma	1,190	1,131	5.3%	1,190	1,131	0	0	0	0	0	0
Texas	717	688	4.3%	701	664	16	23	NM	NM	0	0
Mountain	17,402	16,655	4.5%	16,752	16,041	645	608	5	5	0	0
Arizona	3,218	3,018	6.6%	3,218	3,018	0	0	0	0	0	0
Colorado	890	908	-2.0%	775	795	109	108	5	5	0	0
Idaho	5,535	5,130	7.9%	5,113	4,731	423	399	0	0	0	0
Montana	5,734	5,292	8.4%	5,667	5,229	68	63	0	0	0	0
Nevada	1,000	1,322	-24.3%	966	1,296	34	NM	0	0	0	0
New Mexico	72	77	-6.6%	72	77	0	0	0	0	0	0
Utah	467	444	5.2%	460	435	7	8	0	0	0	0
Wyoming	486	465	4.4%	481	461	4	4	0	0	0	0
Pacific Contiguous	70,049	77,244	-9.3%	69,083	75,680	961	1,552	NM	NM	0	0
California	11,371	22,781	-50.1%	10,735	21,526	630	1,243	NM	NM	0	0
Oregon	18,043	17,161	5.1%	17,921	17,045	121	116	0	0	0	0
Washington	40,636	37,302	8.9%	40,427	37,109	209	193	0	0	0	0
Pacific Noncontiguous	872	824	5.9%	749	711	15	9	92	85	16	19
Alaska	837	791	5.7%	744	706	0	0	92	85	0	0
Hawaii	36	33	9.3%	5	5	15	9	0	0	16	19
U.S. Total	150,492	153,595	-2.0%	137,195	139,953	12,575	12,936	121	123	602	583

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

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

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	924	980	-5.7%	59	46	765	823	10	13	89	98
Connecticut	93	86	8.9%	0	0	92	84	NM	NM	NM	NM
Maine	342	403	-15.0%	0	0	252	302	2	3	88	97
Massachusetts	233	229	2.0%	18	15	211	208	4	4	NM	NM
New Hampshire	124	151	-17.6%	0	10	121	137	3	3	0	0
Rhode Island	45	42	5.1%	0	0	44	42	0	0	0	0
Vermont	86	70	23.5%	41	20	45	50	0	0	0	0
Middle Atlantic	1,275	1,371	-7.0%	8	8	1,169	1,253	56	58	42	53
New Jersey	212	203	4.3%	8	8	176	167	27	27	NM	NM
New York	594	680	-12.6%	0	0	565	643	18	19	11	17
Pennsylvania	470	488	-3.8%	0	0	428	443	11	11	30	34
East North Central	2,867	2,840	1.0%	399	353	2,334	2,345	14	16	121	126
Illinois	1,190	1,142	4.1%	9	10	1,180	1,132	NM	NM	0	0
Indiana	511	549	-6.8%	45	39	460	502	2	2	5	5
Michigan	685	648	5.8%	236	191	394	405	4	4	52	48
Ohio	247	227	9.0%	NM	NM	219	199	NM	NM	25	24
Wisconsin	234	275	-14.9%	108	111	81	106	6	8	39	50
West North Central	9,117	6,316	44.4%	2,944	2,059	6,095	4,177	15	11	63	69
Iowa	2,742	1,944	41.0%	2,011	1,337	724	600	4	3	4	4
Kansas	2,528	1,530	65.2%	210	139	2,316	1,390	NM	NM	0	0
Minnesota	1,275	1,140	11.8%	235	194	977	878	NM	NM	59	65
Missouri	326	242	34.5%	4	3	318	237	5	2	0	0
Nebraska	750	501	49.8%	31	29	718	471	1	1	0	0
North Dakota	1,037	752	37.8%	387	299	649	453	NM	NM	0	0
South Dakota	459	206	123.0%	67	58	392	148	0	0	0	0
South Atlantic	3,962	3,434	15.4%	832	577	2,288	1,945	38	40	804	873
Delaware	11	10	2.3%	NM	NM	9	8	0	0	NM	NM
District of Columbia	7	6	8.7%	0	0	NM	NM	5	4	0	0
Florida	981	735	33.4%	609	364	222	206	4	4	146	161
Georgia	822	662	24.2%	38	31	458	293	NM	NM	326	338
Maryland	142	137	3.8%	NM	NM	137	132	4	4	0	0
North Carolina	1,101	1,039	5.9%	60	43	926	872	12	13	103	112
South Carolina	344	274	25.4%	8	31	227	103	0	0	108	140
Virginia	408	413	-1.1%	116	106	159	171	13	14	120	122
West Virginia	147	158	-7.0%	0	0	147	158	0	0	0	0
East South Central	623	643	-3.1%	14	15	133	135	NM	NM	475	492
Alabama	320	331	-3.4%	3	3	40	54	0	0	277	274
Kentucky	37	45	-16.7%	11	11	1	1	0	0	26	33
Mississippi	167	156	6.6%	0	0	47	33	0	0	120	123
Tennessee	99	110	-10.2%	NM	NM	46	48	NM	NM	52	62
West South Central	13,284	9,282	43.1%	187	130	12,759	8,772	9	5	329	375
Arkansas	100	143	-30.2%	NM	NM	27	27	3	1	70	115
Louisiana	166	174	-4.3%	NM	NM	6	6	0	0	160	167
Oklahoma	3,059	2,084	46.8%	157	108	2,873	1,954	0	0	29	22
Texas	9,959	6,882	44.7%	29	22	9,853	6,785	7	5	70	70
Mountain	5,014	4,355	15.1%	549	499	4,341	3,776	47	47	77	33
Arizona	686	656	4.5%	77	76	607	579	NM	NM	0	0
Colorado	1,153	945	22.1%	191	185	960	758	NM	NM	0	0
Idaho	315	332	-5.1%	14	14	278	286	1	1	22	30
Montana	220	186	18.3%	20	18	198	166	0	0	2	2
Nevada	954	862	10.7%	22	5	892	816	40	41	0	0
New Mexico	915	666	37.4%	40	35	875	631	NM	NM	0	0
Utah	368	353	4.1%	19	19	348	333	1	1	0	0
Wyoming	403	356	13.4%	167	148	184	208	0	0	52	0
Pacific Contiguous	8,138	7,870	3.4%	796	822	7,072	6,753	76	77	195	218
California	6,370	5,995	6.3%	231	221	6,005	5,629	73	74	61	71
Oregon	963	1,041	-7.4%	165	190	749	791	2	2	47	57
Washington	805	835	-3.6%	400	410	317	333	NM	NM	87	90
Pacific Noncontiguous	155	117	33.3%	19	16	119	83	16	17	NM	NM
Alaska	16	15	3.8%	NM	NM	NM	NM	3	2	NM	NM
Hawaii	139	101	37.8%	11	7	115	79	13	16	0	0
U.S. Total	45,359	37,208	21.9%	5,807	4,524	37,075	30,063	282	283	2,195	2,337

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

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

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

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

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

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

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

by State, by Sector, Year-to-Date through June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	5,875	5,896	-0.3%	351	389	4,890	4,857	72	87	562	562
Connecticut	509	474	7.3%	2	2	503	469	4	4	NM	NM
Maine	2,387	2,548	-6.3%	0	0	1,813	1,966	17	24	557	558
Massachusetts	1,338	1,216	10.0%	95	77	1,208	1,103	29	31	5	NM
New Hampshire	828	929	-10.9%	21	112	791	795	16	23	0	0
Rhode Island	301	250	20.6%	0	0	297	245	4	4	0	0
Vermont	512	478	7.1%	233	199	278	279	1	1	0	0
Middle Atlantic	8,289	7,814	6.1%	39	37	7,615	7,133	324	313	311	330
New Jersey	1,120	1,001	11.9%	39	37	929	822	148	138	4	4
New York	3,928	3,816	2.9%	0	0	3,742	3,621	104	105	82	91
Pennsylvania	3,241	2,996	8.2%	0	0	2,944	2,691	71	70	226	236
East North Central	20,384	19,071	6.9%	2,462	2,142	17,073	16,036	87	102	763	791
Illinois	8,762	7,768	12.8%	59	57	8,699	7,707	4	NM	0	0
Indiana	3,797	3,800	-0.1%	246	208	3,509	3,552	11	11	30	30
Michigan	4,552	4,355	4.5%	1,476	1,248	2,758	2,743	24	36	294	328
Ohio	1,655	1,562	6.0%	11	10	1,471	1,399	9	9	165	144
Wisconsin	1,619	1,586	2.1%	670	619	636	636	38	42	274	289
West North Central	52,204	43,452	20.1%	17,270	14,716	34,516	28,297	79	85	339	354
Iowa	16,352	13,729	19.1%	11,678	9,631	4,628	4,051	21	22	24	25
Kansas	12,406	10,320	20.2%	1,006	945	11,393	9,367	NM	8	0	0
Minnesota	7,796	7,096	9.9%	1,431	1,369	6,029	5,371	23	29	312	327
Missouri	1,777	1,610	10.4%	16	15	1,742	1,575	18	19	1	1
Nebraska	4,415	3,696	19.5%	199	191	4,210	3,499	7	6	0	0
North Dakota	6,772	5,488	23.4%	2,494	2,128	4,275	3,357	NM	NM	NM	NM
South Dakota	2,686	1,514	77.4%	446	437	2,240	1,076	0	0	0	0
South Atlantic	21,988	18,599	18.2%	4,425	3,286	12,247	9,990	212	209	5,104	5,113
Delaware	59	54	9.1%	3	3	48	43	3	3	5	5
District of Columbia	39	34	14.9%	0	0	9	7	30	27	0	0
Florida	5,363	4,302	24.7%	3,124	2,090	1,263	1,241	26	25	951	946
Georgia	4,569	3,460	32.0%	165	153	2,403	1,350	NM	NM	1,999	1,955
Maryland	760	756	0.5%	4	4	735	683	21	21	0	49
North Carolina	5,829	5,134	13.5%	289	195	4,839	4,267	58	57	643	614
South Carolina	1,920	1,566	22.6%	135	212	1,003	535	0	0	782	820
Virginia	2,395	2,333	2.7%	705	629	894	906	73	75	724	724
West Virginia	1,054	959	9.9%	0	0	1,054	959	0	0	0	0
East South Central	3,723	3,587	3.8%	79	77	663	655	2	2	2,979	2,853
Alabama	1,927	1,897	1.5%	15	15	197	273	0	0	1,715	1,609
Kentucky	235	228	3.0%	62	60	5	5	0	0	169	163
Mississippi	932	820	13.7%	0	0	231	165	0	0	702	654
Tennessee	629	642	-2.0%	NM	NM	231	212	2	2	394	426
West South Central	70,637	61,230	15.4%	926	877	67,628	57,979	45	43	2,038	2,330
Arkansas	594	828	-28.3%	NM	NM	133	133	13	3	448	691
Louisiana	1,034	1,095	-5.6%	NM	NM	38	37	0	0	995	1,057
Oklahoma	15,926	14,470	10.1%	765	728	14,999	13,599	0	0	162	143
Texas	53,084	44,836	18.4%	159	148	52,459	44,210	32	40	434	439
Mountain	27,721	24,823	11.7%	3,282	3,069	23,890	21,279	301	283	248	193
Arizona	3,333	3,004	10.9%	359	337	2,968	2,660	6	6	0	0
Colorado	6,933	6,163	12.5%	1,193	1,178	5,723	4,973	15	10	1	1
Idaho	2,027	1,961	3.4%	95	91	1,745	1,686	5	4	182	180
Montana	1,401	1,228	14.1%	131	119	1,259	1,099	0	0	11	10
Nevada	4,895	4,424	10.6%	71	20	4,557	4,147	266	256	1	1
New Mexico	4,886	4,069	20.1%	190	142	4,695	3,925	NM	NM	0	0
Utah	1,829	1,737	5.3%	110	113	1,712	1,620	7	5	0	0
Wyoming	2,417	2,237	8.0%	1,133	1,069	1,231	1,168	0	0	52	0
Pacific Contiguous	43,067	40,098	7.4%	4,540	3,962	36,840	34,496	453	426	1,232	1,214
California	31,967	30,611	4.4%	1,061	1,053	30,109	28,787	434	405	363	366
Oregon	5,696	4,561	24.9%	799	593	4,581	3,672	14	14	302	282
Washington	5,404	4,925	9.7%	2,680	2,316	2,151	2,037	5	6	568	566
Pacific Noncontiguous	850	741	14.7%	112	107	638	524	98	108	NM	NM
Alaska	107	101	6.4%	56	53	31	29	19	17	NM	NM
Hawaii	743	640	16.0%	56	54	607	495	79	91	0	0
U.S. Total	254,739	225,310	13.1%	33,487	28,662	206,001	181,248	1,673	1,658	13,577	13,742

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.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	-36	-32	12.1%	0	0	-36	-32	0	0	0	0
Connecticut	0	0	-37.7%	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-36	-32	11.7%	0	0	-36	-32	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	-90	-92	-2.0%	-46	-37	-44	-54	0	0	0	0
New Jersey	-10	-15	-35.2%	-10	-15	0	0	0	0	0	0
New York	-36	-22	64.3%	-36	-22	0	0	0	0	0	0
Pennsylvania	-44	-54	-19.5%	0	0	-44	-54	0	0	0	0
East North Central	-91	-63	44.1%	-91	-63	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	-91	-63	44.1%	-91	-63	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	3	84	-96.9%	3	84	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	3	84	-96.9%	3	84	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	-267	-267	0.1%	-267	-267	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	-68	-69	-2.6%	-68	-69	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	-89	-106	-16.0%	-89	-106	0	0	0	0	0	0
Virginia	-110	-91	20.8%	-110	-91	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-77	-63	22.5%	-77	-63	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	-77	-63	22.5%	-77	-63	0	0	0	0	0	0
West South Central	-10	2	-604.0%	-10	2	0	0	0	0	0	0
Arkansas	2	6	-72.6%	2	6	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-12	-5	156.7%	-12	-5	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	8	-6	-242.3%	8	-6	0	0	0	0	0	0
Arizona	22	8	162.5%	22	8	0	0	0	0	0	0
Colorado	-14	-14	-5.4%	-14	-14	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	61	51	19.6%	61	51	0	0	0	0	0	0
California	54	50	7.7%	54	50	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	6	0	NM	6	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	-499	-385	29.5%	-420	-299	-79	-86	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 1.12.B. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power

by State, by Sector, Year-to-Date through June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	-187	-208	-9.9%	0	0	-187	-208	0	0	0	0
Connecticut	0	2	-118.0%	0	0	0	2	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-187	-210	-11.0%	0	0	-187	-210	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	-490	-475	3.0%	-213	-202	-277	-273	0	0	0	0
New Jersey	-91	-51	77.2%	-91	-51	0	0	0	0	0	0
New York	-122	-151	-19.1%	-122	-151	0	0	0	0	0	0
Pennsylvania	-277	-273	1.3%	0	0	-277	-273	0	0	0	0
East North Central	-361	-302	19.5%	-361	-302	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	-361	-302	19.5%	-361	-302	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	32	328	-90.3%	32	328	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	32	328	-90.3%	32	328	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	-729	-823	-11.4%	-729	-823	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	-44	19	-333.2%	-44	19	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	-287	-414	-30.6%	-287	-414	0	0	0	0	0	0
Virginia	-398	-427	-6.9%	-398	-427	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-337	-285	18.3%	-337	-285	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	-337	-285	18.3%	-337	-285	0	0	0	0	0	0
West South Central	-6	2	-361.9%	-6	2	0	0	0	0	0	0
Arkansas	47	44	5.9%	47	44	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-53	-42	26.9%	-53	-42	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-31	-125	-75.2%	-31	-125	0	0	0	0	0	0
Arizona	36	-34	-207.0%	36	-34	0	0	0	0	0	0
Colorado	-67	-91	-26.4%	-67	-91	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	-88	-91	-3.4%	-88	-91	0	0	0	0	0	0
California	-99	-93	6.5%	-99	-93	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	11	2	427.0%	11	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	-2,196	-1,977	11.1%	-1,733	-1,497	-464	-481	0	0	0	0

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

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

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

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

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

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

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	142	153	-7.3%	0	0	130	139	3	4	9	10
Connecticut	53	49	7.5%	0	0	53	49	0	0	0	0
Maine	27	30	-12.1%	0	0	15	17	3	4	9	10
Massachusetts	57	69	-16.3%	0	0	57	69	0	0	0	0
New Hampshire	5	5	-0.5%	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	204	216	-5.6%	0	0	157	166	41	44	6	6
New Jersey	46	52	-10.1%	0	0	28	32	13	14	6	6
New York	82	87	-6.0%	0	0	63	66	19	21	0	0
Pennsylvania	75	77	-2.2%	0	0	66	68	9	9	0	0
East North Central	79	76	2.9%	1	2	7	8	6	7	64	61
Illinois	23	24	-2.7%	0	0	-1	0	0	0	24	25
Indiana	37	33	10.8%	0	0	0	0	2	2	35	31
Michigan	14	14	-3.5%	0	0	8	8	4	5	2	2
Ohio	1	1	-59.7%	0	0	0	0	0	0	1	1
Wisconsin	4	3	16.7%	1	2	0	0	0	0	3	NM
West North Central	37	37	-0.6%	17	17	13	13	3	3	4	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	32	32	0.9%	13	12	13	13	3	3	4	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	NM	5	NM	NM	5	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	361	390	-7.6%	0	0	205	242	14	15	141	133
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	234	257	-8.9%	0	0	125	142	0	0	110	115
Georgia	6	9	-35.0%	0	0	0	0	0	0	6	9
Maryland	31	37	-17.6%	0	0	31	37	0	0	0	0
North Carolina	46	35	29.2%	0	0	24	29	0	0	22	7
South Carolina	5	3	77.1%	0	0	1	0	0	0	4	2
Virginia	41	50	-17.3%	0	0	27	34	14	15	0	0
West Virginia	-1	-1	121.6%	0	0	-1	-1	0	0	0	0
East South Central	6	2	179.0%	5	2	0	0	0	0	NM	1
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	5	2	229.9%	5	2	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	1	NM	0	0	0	0	0	0	NM	1
West South Central	78	68	15.8%	0	0	6	8	0	0	72	60
Arkansas	0	0	-10.6%	0	0	0	0	0	0	0	0
Louisiana	39	38	2.2%	0	0	0	0	0	0	39	38
Oklahoma	1	1	69.6%	0	0	0	0	0	0	1	1
Texas	38	29	32.9%	0	0	6	8	0	0	32	21
Mountain	32	59	-46.1%	7	8	10	24	0	0	15	27
Arizona	0	0	-78.2%	0	0	0	0	0	0	0	0
Colorado	4	4	5.9%	0	0	1	2	0	0	4	2
Idaho	6	4	56.2%	0	0	0	0	0	0	6	4
Montana	9	22	-60.7%	0	0	9	22	0	0	0	0
Nevada	2	3	-19.5%	2	3	0	0	0	0	0	0
New Mexico	0	0	-61.1%	0	0	0	0	0	0	0	0
Utah	NM	20	NM	NM	5	0	0	0	0	0	15
Wyoming	6	6	2.0%	0	0	0	0	0	0	6	6
Pacific Contiguous	63	73	-14.3%	-1	-1	15	18	0	0	48	56
California	54	65	-17.1%	-1	-1	6	10	0	0	48	56
Oregon	2	2	-14.1%	0	0	2	2	0	0	0	0
Washington	7	6	18.7%	0	0	7	6	0	0	0	0
Pacific Noncontiguous	21	33	-38.4%	4	14	0	0	16	19	0	0
Alaska	0	0	-38.0%	0	0	0	0	0	0	0	0
Hawaii	21	34	-38.4%	4	15	0	0	16	19	0	0
U.S. Total	1,020	1,107	-7.8%	33	41	543	618	83	92	361	357

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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 June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	933	929	0.4%	0	0	849	836	21	29	62	64
Connecticut	297	283	5.0%	0	0	297	283	0	0	0	0
Maine	162	177	-8.4%	0	0	78	84	21	29	62	64
Massachusetts	447	444	0.8%	0	0	447	444	0	0	0	0
New Hampshire	27	26	3.6%	0	0	27	26	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	1,230	1,206	2.0%	0	0	964	935	251	245	15	25
New Jersey	291	295	-1.3%	0	0	194	191	82	78	15	25
New York	493	442	11.5%	0	0	383	330	111	113	0	0
Pennsylvania	446	468	-4.8%	0	0	388	414	58	54	0	0
East North Central	433	433	0.0%	10	10	40	50	40	54	344	320
Illinois	105	128	-17.7%	0	0	-7	-6	0	0	112	134
Indiana	219	168	30.6%	0	0	0	0	12	11	207	156
Michigan	83	109	-23.9%	0	0	47	56	28	42	8	11
Ohio	5	6	-15.2%	-1	-1	0	0	0	0	6	7
Wisconsin	21	23	-6.9%	10	10	0	0	0	0	11	12
West North Central	212	201	5.7%	94	95	73	67	18	10	27	28
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	2	3	-0.6%	0	0	0	0	0	0	2	3
Minnesota	182	171	6.2%	67	69	73	67	18	10	24	26
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	27	27	3.2%	27	27	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,181	2,321	-6.0%	-1	-1	1,306	1,353	82	84	794	884
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	1,463	1,572	-6.9%	-1	-1	839	863	0	0	625	709
Georgia	41	47	-14.7%	0	0	0	0	0	0	41	47
Maryland	126	140	-10.5%	0	0	126	140	0	0	0	0
North Carolina	264	271	-2.6%	0	0	153	160	0	0	110	111
South Carolina	22	18	19.2%	0	0	4	2	0	0	18	16
Virginia	274	276	-0.4%	0	0	193	191	82	84	0	0
West Virginia	-8	-3	128.8%	0	0	-8	-3	0	0	0	0
East South Central	33	20	65.0%	29	17	0	0	0	0	4	3
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	29	17	73.3%	29	17	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	4	3	20.9%	0	0	0	0	0	0	4	3
West South Central	423	475	-10.9%	0	0	25	45	0	0	399	430
Arkansas	3	2	19.8%	0	0	0	0	0	0	3	2
Louisiana	222	232	-4.3%	0	0	0	0	0	0	222	232
Oklahoma	3	3	-6.9%	0	0	0	1	0	0	3	3
Texas	195	237	-17.7%	0	0	25	44	0	0	171	193
Mountain	303	356	-14.9%	45	41	117	153	0	0	141	162
Arizona	-2	-2	-23.5%	0	0	-2	-2	0	0	0	0
Colorado	32	28	12.8%	0	0	9	7	0	0	22	21
Idaho	35	33	7.2%	0	0	0	0	0	0	35	33
Montana	109	148	-26.2%	0	0	109	148	0	0	0	0
Nevada	15	10	43.9%	15	10	0	0	0	0	0	0
New Mexico	-1	-1	15.7%	-1	0	0	0	0	0	0	0
Utah	71	104	-31.8%	31	31	0	0	0	0	40	73
Wyoming	43	35	22.1%	0	0	0	0	0	0	43	35
Pacific Contiguous	380	404	-5.8%	-6	-8	131	121	0	0	255	291
California	325	360	-9.6%	-5	-7	76	76	0	0	255	291
Oregon	20	11	79.3%	0	0	20	11	0	0	0	0
Washington	35	33	5.9%	0	0	35	33	0	0	0	0
Pacific Noncontiguous	160	187	-14.5%	63	75	0	0	96	111	0	0
Alaska	-1	-2	-14.2%	-1	-2	0	0	0	0	0	0
Hawaii	161	188	-14.5%	65	77	0	0	96	111	0	0
U.S. Total	6,288	6,530	-3.7%	235	229	3,505	3,560	507	533	2,040	2,207

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

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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, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	273	299	-8.8%	19	20	252	277	NM	NM	NM	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	172	190	-9.5%	0	0	172	190	0	0	0	0
Massachusetts	19	19	-3.3%	NM	NM	NM	13	NM	NM	NM	NM
New Hampshire	38	40	-5.4%	0	0	38	40	0	0	0	0
Rhode Island	15	16	-8.1%	0	0	15	16	0	0	0	0
Vermont	29	33	-12.6%	14	15	15	18	0	0	0	0
Middle Atlantic	644	746	-13.7%	0	0	643	745	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	336	441	-23.8%	0	0	335	440	NM	NM	NM	NM
Pennsylvania	306	303	1.0%	0	0	306	303	0	0	0	0
East North Central	2,350	2,329	0.9%	317	272	2,025	2,047	NM	NM	NM	NM
Illinois	1,148	1,100	4.4%	NM	NM	1,146	1,098	NM	NM	0	0
Indiana	436	478	-8.7%	0	0	436	478	0	0	0	0
Michigan	490	440	11.4%	224	181	266	258	0	0	0	0
Ohio	142	154	-7.8%	NM	NM	135	146	0	0	NM	NM
Wisconsin	135	158	-14.8%	90	89	42	67	NM	NM	0	0
West North Central	8,739	5,962	46.6%	2,914	2,029	5,821	3,930	NM	NM	0	0
Iowa	2,722	1,925	41.4%	2,009	1,335	713	589	0	0	0	0
Kansas	2,515	1,522	65.2%	210	139	2,304	1,382	NM	NM	0	0
Minnesota	964	843	14.4%	218	175	744	666	NM	NM	0	0
Missouri	305	223	36.4%	0	0	305	223	0	0	0	0
Nebraska	738	491	50.3%	24	23	714	468	0	0	0	0
North Dakota	1,037	752	37.8%	387	299	649	453	NM	NM	0	0
South Dakota	459	206	123.1%	67	58	392	148	0	0	0	0
South Atlantic	236	240	-1.7%	0	0	236	240	0	0	0	0
Delaware	0	0	-18.0%	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	47	44	6.7%	0	0	47	44	0	0	0	0
North Carolina	42	38	10.4%	0	0	42	38	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	147	158	-7.0%	0	0	147	158	0	0	0	0
East South Central	NM	NM	NM	0	0	NM	NM	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	NM	NM	0	0	NM	NM	0	0	0	0
West South Central	12,145	8,364	45.2%	178	122	11,959	8,237	6	4	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	3,022	2,053	47.2%	151	101	2,871	1,952	0	0	0	0
Texas	9,123	6,311	44.6%	28	21	9,088	6,285	6	4	NM	NM
Mountain	2,695	2,165	24.5%	389	363	2,253	1,800	NM	NM	53	0
Arizona	55	43	28.7%	0	0	55	43	0	0	0	0
Colorado	976	796	22.7%	190	185	786	611	0	NM	0	0
Idaho	217	218	-0.6%	NM	13	204	205	0	0	0	0
Montana	214	180	19.2%	20	18	195	162	0	0	0	0
Nevada	32	25	29.0%	0	0	32	25	0	0	0	0
New Mexico	741	506	46.5%	0	0	741	506	NM	NM	0	0
Utah	76	65	17.4%	0	0	76	65	0	0	0	0
Wyoming	383	332	15.4%	167	148	164	184	0	0	52	0
Pacific Contiguous	2,990	2,779	7.6%	639	663	2,349	2,115	0	0	1	1
California	1,558	1,225	27.2%	106	98	1,451	1,126	0	0	1	1
Oregon	755	854	-11.6%	160	185	595	670	0	0	0	0
Washington	677	699	-3.3%	374	380	303	319	0	0	0	0
Pacific Noncontiguous	71	58	22.6%	NM	NM	63	49	0	0	0	0
Alaska	NM	13	NM	NM	NM	NM	NM	0	0	0	0
Hawaii	58	45	30.9%	0	0	58	45	0	0	0	0
U.S. Total	30,147	22,947	31.4%	4,465	3,479	25,605	19,446	16	14	61	9

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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 1.14.B. Utility Scale Facility Net Generation from Wind

by State, by Sector, Year-to-Date through June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	2,074	1,968	5.4%	131	122	1,924	1,826	17	18	NM	NM
Connecticut	7	NM	NM	0	0	7	NM	0	0	0	0
Maine	1,315	1,296	1.4%	0	0	1,315	1,296	0	0	0	0
Massachusetts	134	120	11.7%	34	30	85	74	13	13	NM	NM
New Hampshire	279	219	27.4%	0	0	279	219	0	0	0	0
Rhode Island	126	122	3.4%	0	0	123	118	4	4	0	0
Vermont	213	204	4.3%	98	92	115	112	0	0	0	0
Middle Atlantic	4,632	4,530	2.3%	0	0	4,628	4,526	NM	NM	NM	NM
New Jersey	13	12	6.0%	0	0	13	12	0	0	0	0
New York	2,485	2,623	-5.3%	0	0	2,481	2,620	NM	NM	NM	NM
Pennsylvania	2,134	1,894	12.7%	0	0	2,134	1,894	0	0	0	0
East North Central	17,314	16,076	7.7%	1,994	1,693	15,260	14,327	16	15	44	42
Illinois	8,514	7,529	13.1%	7	7	8,504	7,519	NM	NM	0	0
Indiana	3,387	3,433	-1.4%	0	0	3,387	3,433	0	0	0	0
Michigan	3,370	3,070	9.8%	1,430	1,204	1,940	1,866	0	0	0	0
Ohio	1,080	1,146	-5.8%	7	NM	1,031	1,101	2	2	40	38
Wisconsin	963	897	7.3%	550	475	398	407	12	11	4	4
West North Central	50,307	41,753	20.5%	17,099	14,534	33,182	27,194	26	24	0	0
Iowa	16,233	13,616	19.2%	11,667	9,620	4,563	3,993	2	2	0	0
Kansas	12,350	10,281	20.1%	1,005	944	11,337	9,330	NM	8	0	0
Minnesota	6,241	5,711	9.3%	1,327	1,252	4,900	4,446	14	13	0	0
Missouri	1,673	1,507	11.0%	0	0	1,673	1,507	0	0	0	0
Nebraska	4,354	3,638	19.7%	159	153	4,195	3,485	0	0	0	0
North Dakota	6,770	5,487	23.4%	2,494	2,128	4,275	3,357	NM	NM	0	0
South Dakota	2,685	1,513	77.4%	446	437	2,239	1,076	0	0	0	0
South Atlantic	1,710	1,559	9.7%	0	0	1,707	1,556	3	3	0	0
Delaware	3	3	-1.3%	0	0	0	0	3	3	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	313	303	3.3%	0	0	313	303	0	0	0	0
North Carolina	340	294	15.9%	0	0	340	294	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	1,054	959	9.9%	0	0	1,054	959	0	0	0	0
East South Central	27	23	14.5%	0	0	27	23	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	27	23	14.5%	0	0	27	23	0	0	0	0
West South Central	65,045	56,398	15.3%	884	841	64,125	55,522	29	28	NM	7
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	15,723	14,287	10.1%	734	697	14,989	13,590	0	0	0	0
Texas	49,322	42,111	17.1%	150	144	49,136	41,933	29	28	NM	7
Mountain	16,221	14,495	11.9%	2,542	2,448	13,622	12,042	NM	NM	54	1
Arizona	294	298	-1.1%	0	0	294	298	0	0	0	0
Colorado	6,111	5,486	11.4%	1,189	1,176	4,920	4,306	NM	NM	1	1
Idaho	1,474	1,408	4.7%	88	84	1,386	1,324	0	0	0	0
Montana	1,374	1,201	14.3%	131	119	1,243	1,083	0	0	0	0
Nevada	171	173	-0.7%	0	0	171	173	0	0	0	0
New Mexico	4,057	3,356	20.9%	0	0	4,055	3,354	NM	NM	0	0
Utah	418	426	-1.8%	0	0	418	426	0	0	0	0
Wyoming	2,320	2,147	8.1%	1,133	1,069	1,135	1,078	0	0	52	0
Pacific Contiguous	17,252	15,678	10.0%	3,705	3,115	13,541	12,557	3	3	2	3
California	8,047	7,932	1.4%	415	414	7,626	7,512	3	3	2	3
Oregon	4,611	3,646	26.5%	769	563	3,842	3,083	0	0	0	0
Washington	4,594	4,100	12.1%	2,521	2,138	2,073	1,962	0	0	0	0
Pacific Noncontiguous	403	391	3.0%	56	53	346	338	0	0	0	0
Alaska	87	82	5.6%	56	53	31	29	0	0	0	0
Hawaii	316	308	2.4%	0	0	316	308	0	0	0	0
U.S. Total	174,983	152,869	14.5%	26,411	22,806	148,362	129,910	99	97	111	57

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

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

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

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

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

Table 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	439	507	-13.5%	20	11	324	390	7	9	88	97
Connecticut	65	65	-0.4%	0	0	65	65	0	0	0	0
Maine	169	212	-20.0%	0	0	79	111	2	3	88	97
Massachusetts	69	81	-14.5%	0	0	68	79	2	2	0	0
New Hampshire	87	111	-22.0%	0	10	84	97	3	3	0	0
Rhode Island	13	19	-34.6%	0	0	13	19	0	0	0	0
Vermont	36	18	93.3%	20	1	16	18	0	0	0	0
Middle Atlantic	353	411	-14.1%	0	0	276	321	38	40	39	50
New Jersey	57	67	-15.3%	0	0	45	54	12	13	0	0
New York	148	168	-12.0%	0	0	122	135	16	17	10	16
Pennsylvania	149	177	-15.8%	0	0	108	133	11	10	30	34
East North Central	388	430	-9.8%	48	55	216	244	9	11	114	120
Illinois	33	36	-6.9%	8	8	25	27	0	0	0	0
Indiana	32	35	-6.5%	22	24	4	4	1	2	5	5
Michigan	176	190	-7.7%	0	0	120	139	4	4	52	48
Ohio	55	57	-2.5%	0	0	35	39	1	1	19	17
Wisconsin	91	112	-18.8%	18	23	31	35	4	5	39	49
West North Central	151	157	-4.0%	26	27	51	54	11	7	63	69
Iowa	18	18	-1.3%	NM	NM	10	10	3	3	4	4
Kansas	5	5	-8.5%	0	0	5	5	0	0	0	0
Minnesota	112	121	-7.5%	17	19	34	36	2	NM	59	65
Missouri	10	7	37.9%	2	2	3	3	5	2	0	0
Nebraska	7	6	12.4%	6	5	0	0	1	1	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	1,459	1,619	-9.9%	107	181	526	543	22	23	803	872
Delaware	4	4	-5.0%	0	0	3	3	0	0	NM	NM
District of Columbia	5	4	5.4%	0	0	0	0	5	4	0	0
Florida	335	385	-12.9%	49	66	138	155	3	3	145	161
Georgia	465	443	5.0%	0	0	139	105	0	0	326	338
Maryland	32	38	-14.9%	0	0	30	36	2	2	0	0
North Carolina	178	222	-19.9%	0	0	74	110	NM	NM	103	112
South Carolina	169	202	-16.2%	7	31	54	32	0	0	108	139
Virginia	271	321	-15.6%	51	84	87	101	12	13	120	122
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	491	521	-5.8%	7	7	10	23	0	0	474	491
Alabama	280	289	-3.2%	0	0	3	15	0	0	277	274
Kentucky	33	41	-18.4%	7	7	1	1	0	0	26	33
Mississippi	121	124	-2.8%	0	0	NM	NM	0	0	120	123
Tennessee	57	67	-15.1%	0	0	6	6	0	0	52	61
West South Central	371	421	-11.7%	0	0	43	46	0	1	328	374
Arkansas	76	121	-37.6%	0	0	5	5	0	1	70	115
Louisiana	166	173	-4.3%	0	0	6	6	0	0	160	167
Oklahoma	31	24	28.3%	0	0	NM	2	0	0	29	22
Texas	99	102	-3.1%	0	0	30	33	0	0	69	69
Mountain	75	88	-15.1%	NM	NM	49	53	2	2	23	32
Arizona	18	20	-11.9%	0	0	18	20	0	0	0	0
Colorado	13	12	1.9%	0	0	13	12	0	0	0	0
Idaho	32	42	-23.6%	NM	NM	8	10	1	1	21	30
Montana	2	2	-17.8%	0	0	0	0	0	0	2	2
Nevada	4	4	-3.4%	0	0	4	4	0	0	0	0
New Mexico	1	1	-32.6%	0	0	1	1	0	0	0	0
Utah	6	6	-6.0%	0	0	5	5	1	1	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	653	713	-8.4%	37	40	369	400	57	59	189	214
California	448	487	-8.0%	6	5	331	359	54	55	55	67
Oregon	81	95	-14.9%	4	5	28	32	2	2	47	57
Washington	124	131	-5.2%	26	30	10	9	NM	NM	87	90
Pacific Noncontiguous	23	25	-7.4%	3	3	4	4	16	17	NM	NM
Alaska	3	2	62.8%	0	0	0	0	3	2	NM	NM
Hawaii	20	23	-13.5%	3	3	4	4	13	16	0	0
U.S. Total	4,403	4,892	-10.0%	249	326	1,868	2,078	164	169	2,123	2,319

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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 June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	2,801	3,135	-10.6%	122	201	2,075	2,314	47	62	557	558
Connecticut	376	380	-1.0%	0	0	376	380	0	0	0	0
Maine	1,066	1,246	-14.4%	0	0	492	665	17	24	557	558
Massachusetts	507	510	-0.7%	0	0	494	496	13	14	0	0
New Hampshire	549	710	-22.7%	21	112	512	576	16	23	0	0
Rhode Island	108	97	11.8%	0	0	108	97	0	0	0	0
Vermont	195	191	1.8%	101	89	93	101	1	1	0	0
Middle Atlantic	2,352	2,363	-0.5%	0	0	1,819	1,813	236	233	296	317
New Jersey	383	405	-5.2%	0	0	310	334	74	71	0	0
New York	935	899	4.0%	0	0	767	719	94	95	75	84
Pennsylvania	1,033	1,060	-2.5%	0	0	743	760	69	67	222	232
East North Central	2,472	2,623	-5.8%	313	331	1,381	1,467	60	76	718	749
Illinois	212	207	2.2%	51	49	161	158	0	0	0	0
Indiana	207	202	2.3%	142	138	25	24	10	9	30	30
Michigan	1,095	1,203	-9.0%	0	0	779	841	23	35	294	328
Ohio	343	343	0.0%	0	0	215	233	4	4	124	105
Wisconsin	616	668	-7.8%	120	144	202	211	23	28	270	285
West North Central	865	888	-2.7%	158	171	315	303	53	60	339	354
Iowa	108	106	1.2%	7	7	58	55	19	20	24	25
Kansas	31	30	2.5%	0	0	31	30	0	0	0	0
Minnesota	632	659	-4.1%	102	116	208	201	9	16	312	327
Missouri	50	49	2.0%	13	12	18	18	18	18	1	1
Nebraska	42	42	1.7%	35	36	0	0	7	6	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	9,340	9,381	-0.4%	822	1,094	3,283	3,044	134	134	5,101	5,109
Delaware	26	26	2.6%	0	0	21	20	0	0	5	5
District of Columbia	30	27	10.9%	0	0	0	0	30	27	0	0
Florida	2,171	2,301	-5.6%	273	356	927	980	20	19	950	944
Georgia	2,824	2,449	15.3%	0	0	825	493	0	0	1,999	1,955
Maryland	147	205	-28.5%	0	0	137	145	10	11	0	49
North Carolina	1,221	1,244	-1.8%	0	0	575	626	3	3	643	614
South Carolina	1,143	1,220	-6.3%	130	209	233	193	0	0	780	818
Virginia	1,779	1,911	-6.9%	419	528	565	585	71	73	724	724
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,082	3,024	1.9%	43	42	63	132	0	0	2,976	2,850
Alabama	1,732	1,698	2.0%	0	0	17	88	0	0	1,715	1,609
Kentucky	216	209	3.2%	43	42	4	4	0	0	169	163
Mississippi	707	660	7.2%	0	0	6	6	0	0	702	654
Tennessee	426	458	-6.8%	0	0	35	34	0	0	391	423
West South Central	2,321	2,626	-11.6%	-1	0	287	289	3	14	2,032	2,323
Arkansas	487	730	-33.3%	0	0	37	37	3	3	448	691
Louisiana	1,033	1,094	-5.6%	0	0	38	37	0	0	995	1,057
Oklahoma	172	153	12.3%	0	0	10	9	0	0	162	143
Texas	629	648	-2.9%	-1	0	202	206	0	11	428	432
Mountain	509	520	-2.0%	7	7	300	314	12	9	190	190
Arizona	109	119	-8.4%	0	0	109	119	0	0	0	0
Colorado	84	77	8.3%	0	0	84	77	0	0	0	0
Idaho	237	245	-3.3%	7	7	45	55	5	4	180	180
Montana	11	10	6.5%	0	0	0	0	0	0	11	10
Nevada	27	26	3.5%	0	0	27	26	0	0	0	0
New Mexico	6	9	-37.3%	0	0	6	9	0	0	0	0
Utah	37	34	8.4%	0	0	30	29	7	5	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,116	4,172	-1.3%	223	240	2,319	2,395	365	340	1,209	1,197
California	2,799	2,855	-1.9%	37	36	2,077	2,151	346	320	339	348
Oregon	528	513	3.0%	27	27	185	190	14	14	302	282
Washington	788	804	-2.0%	159	178	56	54	5	6	568	566
Pacific Noncontiguous	139	168	-17.7%	14	34	25	25	98	108	NM	NM
Alaska	20	18	9.9%	0	0	0	0	19	17	NM	NM
Hawaii	118	150	-21.2%	14	34	25	25	79	91	0	0
U.S. Total	27,996	28,901	-3.1%	1,701	2,120	11,866	12,098	1,009	1,037	13,420	13,647

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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, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 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	357	354	1.0%	19	19	305	300	34	34	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	6	6	-3.0%	0	0	6	6	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	313	307	1.8%	0	0	279	273	34	34	0	0
New Mexico	3	4	-14.6%	0	0	3	4	0	0	0	0
Utah	36	37	-3.2%	19	19	17	18	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	975	998	-2.4%	65	62	909	936	0	0	0	0
California	962	986	-2.4%	65	62	897	924	0	0	0	0
Oregon	12	13	-3.3%	0	0	12	13	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	10	10	-0.4%	0	0	10	10	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	10	10	-0.4%	0	0	10	10	0	0	0	0
U.S. Total	1,342	1,362	-1.5%	84	81	1,225	1,247	34	34	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 June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 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	2,192	2,147	2.1%	110	113	1,847	1,810	235	225	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	35	36	-2.3%	0	0	35	36	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,919	1,867	2.8%	0	0	1,685	1,642	235	225	0	0
New Mexico	28	31	-7.9%	0	0	28	31	0	0	0	0
Utah	209	214	-2.1%	110	113	99	101	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,764	5,900	-2.3%	352	352	5,412	5,549	0	0	0	0
California	5,693	5,828	-2.3%	352	352	5,341	5,476	0	0	0	0
Oregon	71	73	-2.1%	0	0	71	73	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	64	67	-4.2%	0	0	64	67	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	64	67	-4.2%	0	0	64	67	0	0	0	0
U.S. Total	8,020	8,115	-1.2%	462	464	7,324	7,426	235	225	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, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector						Commercial Sector						Industrial Sector						Residential Sector				
	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		
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	
New England	625	520	20.1%	212	174	413	347	20	14	189	157	NM	NM	NM	NM	220	183	NM	NM	NM	NM	17	13	176	151	
Connecticut	107	83	29.4%	27	19	80	64	0	0	26	18	NM	NM	NM	NM	29	22	NM	NM	NM	NM	4	3	47	38	
Maine	NM	9	NM	NM	NM	9	8	0	0	NM	NM	3	3	0	0	3	3	0	0	0	0	0	0	0	6	5
Massachusetts	404	355	13.8%	145	128	259	227	13	10	131	116	NM	NM	NM	NM	153	134	NM	NM	NM	NM	12	9	94	83	
New Hampshire	16	13	21.2%	0	0	16	13	0	0	0	0	5	4	0	0	5	4	1	1	0	0	1	1	10	9	
Rhode Island	47	25	88.6%	17	7	30	18	0	0	17	7	22	12	0	0	22	12	0	0	0	0	0	0	0	8	6
Vermont	40	35	15.0%	22	18	19	17	7	4	14	14	7	6	0	0	7	6	NM	NM	0	0	0	NM	0	11	11
Middle Atlantic	864	701	23.1%	279	214	585	487	8	8	250	187	279	224	18	17	261	207	NM	NM	NM	NM	29	25	295	256	
New Jersey	424	368	15.4%	153	134	271	233	8	8	129	111	136	120	15	15	120	105	NM	NM	NM	NM	20	16	130	112	
New York	360	271	32.7%	110	71	250	201	0	0	107	68	NM	NM	NM	NM	121	85	NM	NM	NM	NM	2	2	127	114	
Pennsylvania	79	62	27.3%	15	9	64	53	0	0	14	8	NM	NM	NM	NM	20	17	NM	NM	NM	NM	7	7	37	30	
East North Central	227	159	42.6%	100	82	127	78	34	26	63	53	NM	NM	NM	NM	62	43	7	6	0	0	6	6	58	29	
Illinois	56	26	116.5%	9	7	47	19	0	NM	8	6	NM	NM	NM	NM	25	10	0	0	0	0	0	0	0	22	9
Indiana	62	50	24.2%	43	36	19	14	22	15	20	20	NM	NM	NM	NM	10	9	0	0	0	0	0	0	0	9	4
Michigan	38	30	25.4%	20	18	18	12	11	9	8	8	NM	NM	NM	NM	8	6	NM	NM	0	0	NM	NM	10	6	
Ohio	48	38	25.3%	21	16	27	22	NM	NM	20	14	NM	NM	NM	NM	14	13	3	3	0	0	3	3	9	6	
Wisconsin	24	16	53.2%	8	5	16	11	0	0	8	4	NM	NM	NM	NM	5	4	2	2	0	0	2	2	8	5	
West North Central	305	259	17.7%	226	196	79	63	3	NM	223	194	35	30	0	0	35	29	3	2	0	0	3	2	40	31	
Iowa	NM	18	NM	NM	NM	22	17	NM	NM	NM	NM	13	10	0	0	13	10	1	1	0	0	1	1	8	6	
Kansas	13	6	104.6%	8	NM	5	4	NM	NM	8	NM	2	2	0	0	2	2	0	0	0	0	0	0	0	3	2
Minnesota	213	188	13.6%	200	177	14	11	NM	NM	199	177	4	3	0	0	4	3	2	1	0	0	2	1	8	6	
Missouri	48	42	14.8%	11	12	36	30	1	1	10	11	16	14	0	0	16	13	1	1	0	0	1	1	19	16	
Nebraska	7	5	38.9%	5	4	2	2	NM	NM	4	3	1	1	0	0	1	1	0	0	0	0	0	0	0	1	1
North Dakota	0	0	17.3%	0	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	0
South Atlantic	2,618	1,874	39.7%	2,258	1,575	360	299	716	395	1,526	1,162	95	93	16	16	80	76	NM	NM	NM	NM	36	33	245	190	
Delaware	20	19	3.2%	6	6	13	13	NM	NM	6	5	3	4	0	0	3	4	1	1	0	0	1	1	10	9	
District of Columbia	NM	10	NM	NM	NM	12	9	0	0	NM	NM	6	4	0	0	6	4	0	0	0	0	0	0	0	6	4
Florida	734	411	78.7%	636	349	98	61	551	297	84	51	NM	NM	NM	NM	14	12	NM	NM	NM	NM	1	1	82	48	
Georgia	NM	249	NM	357	219	NM	30	38	31	319	188	NM	NM	NM	NM	4	4	NM	NM	0	0	NM	NM	NM	NM	
Maryland	176	168	5.1%	64	56	113	112	NM	NM	60	52	NM	NM	NM	NM	26	29	3	4	0	0	3	4	83	80	
North Carolina	915	805	13.6%	881	779	35	27	60	43	809	724	24	24	12	12	13	12	1	1	0	0	1	1	21	14	
South Carolina	212	105	100.8%	175	73	36	33	NM	NM	173	72	7	8	0	0	7	8	NM	NM	NM	NM	4	3	25	22	
Virginia	158	105	51.1%	138	92	21	13	65	22	73	70	NM	NM	NM	NM	6	4	0	0	0	0	0	0	14	9	
West Virginia	2	1	27.8%	0	0	2	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1
East South Central	147	133	10.6%	128	116	19	17	8	8	120	107	NM	NM	NM	NM	12	11	NM	NM	NM	NM	0	0	7	5	
Alabama	NM	44	NM	40	43	NM	NM	3	3	37	39	NM	NM	0	0	NM	NM	0	0	0	0	0	0	0	NM	NM
Kentucky	10	8	16.8%	4	4	6	4	4	4	NM	NM	3	2	0	0	3	2	0	0	0	0	0	0	0	3	2
Mississippi	47	33	42.3%	46	32	2	1	0	0	46	32	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	1	
Tennessee	48	47	2.0%	38	38	10	10	NM	NM	37	36	NM	NM	NM	NM	7	7	NM	NM	NM	NM	3	3	3	3	
West South Central	934	624	49.8%	768	497	167	127	9	8	756	489	33	NM	3	NM	31	27	1	1	0	0	1	1	135	99	
Arkansas	30	25	20.8%	24	21	6	3	NM	NM	22	21	4	1	2	0	2	1	0	0	0	0	0	0	0	4	2
Louisiana	NM	24	NM	NM	NM	25	23	NM	NM	0	0	2	2	0	0	2	2	0	0	0	0	0	0	0	24	22
Oklahoma	9	9	7.9%	7	7	3	2	7	7	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	1
Texas	869	567	53.4%	737	469	132	98	NM	NM	734	467	NM	NM	NM	NM	27	24	NM	0	0	0	0	NM	0	106	73
Mountain	2,332	2,099	11.1%	1,783	1,620	549	479	140	116	1,632	1,494	147	136	11	10	137	126	NM	NM	NM	NM	7	7	405	346	
Arizona	813	741	9.7%	525	481	287	260	77	76	447	404	NM	NM	NM	NM	82	74	1	1	0	0	1	1	205	184	
Colorado	235	202	16.2%	165	137	70	65	NM	NM	161	134	NM	NM	NM	NM	22	22	0	0	0	0	0	0	0	48	43
Idaho	69	72	-3.6%	60	66	9	6	0	0	59	65	1	1	0	0	1	1	NM	NM	NM	NM	0	0	8	5	
Montana	7	6	17.3%	4	4	4	3	0	0	4	4	1	1	0	0	1	1	0	0	0	0	0	0	0	3	2
Nevada	677	579	17.0%	590	509	88	69	22	5	561	498	18	18	7	7	11	11	4	4	0	0	4	4	72	55	
New Mexico	204	183	11.4%	170	155	34	28	40	35	130	120	9	8	0	0	9	8	0	0	0	0	0	0	0	25	20
Utah	306	292	4.6%	251	246	55	47	0	0	251	246	10	9	0	0	10	9	1	1	0	0	1	1	44	37	
Wyoming	21	24	-12.9%	20	23	1	1	0	0	20	23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Pacific Contiguous	5,103	4,687	8.9%	3,257	3,070	1,846	1,618	54	57	3,180	2,992	448	404	18	18	430	386	260	NM	5	NM	255	224	1,160	1,008	
California	4,926	4,549	8.3%	3,138	2,987	1,788	1,562	54	56	3,062	2,910	432	386	18	18	415										

Table 1.17.B. Net Generation from Solar Photovoltaic by State, by Sector, Year-to-Date through June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors						Electric Power Sector						Commercial Sector						Industrial Sector						Residential Sector	
	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		
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	
New England	2,991	2,454	21.9%	1,000	793	1,990	1,661	98	66	891	717	1,085	904	8	8	1,077	896	88	68	3	3	85	65	829	700	
Connecticut	504	389	29.6%	126	88	378	301	2	2	120	82	146	116	4	4	141	112	21	15	NM	NM	21	15	216	175	
Maine	51	44	17.1%	6	6	45	38	0	0	6	6	16	16	0	0	16	16	0	0	0	0	0	0	29	22	
Massachusetts	1,944	1,682	15.6%	697	586	1,247	1,096	62	47	629	533	751	669	4	4	747	666	60	48	3	3	57	46	442	385	
New Hampshire	81	65	23.8%	0	0	81	65	0	0	0	0	27	20	0	0	27	20	5	4	0	0	5	4	49	41	
Rhode Island	217	112	93.0%	66	31	150	82	0	0	66	31	111	53	0	0	111	53	0	0	0	0	0	0	40	28	
Vermont	195	163	19.7%	105	83	89	79	35	18	70	66	34	30	0	0	34	30	1	1	0	0	1	1	54	49	
Middle Atlantic	4,082	3,221	26.7%	1,305	921	2,776	2,300	39	37	1,168	794	1,365	1,087	85	78	1,279	1,009	158	128	12	11	146	117	1,351	1,175	
New Jersey	2,021	1,705	18.6%	724	585	1,297	1,120	39	37	606	476	675	595	74	67	600	528	107	79	4	4	103	76	594	517	
New York	1,689	1,229	37.4%	508	294	1,182	935	0	0	495	282	590	408	8	8	582	400	13	13	4	NM	9	9	591	526	
Pennsylvania	371	287	29.3%	73	42	298	245	0	0	67	36	100	83	3	2	97	81	37	36	4	4	34	32	167	132	
East North Central	1,013	709	42.9%	465	372	548	337	154	118	299	243	281	203	11	10	270	192	30	24	1	1	29	23	248	122	
Illinois	231	110	109.3%	36	32	195	78	1	1	33	29	106	47	NM	NM	105	45	1	0	0	0	1	0	90	33	
Indiana	287	227	26.6%	203	165	84	62	104	69	98	94	46	43	NM	NM	45	42	2	2	0	0	2	2	38	19	
Michigan	166	134	23.3%	86	81	79	53	46	44	39	37	35	28	NM	NM	34	26	2	2	0	0	2	2	44	25	
Ohio	220	168	30.8%	100	73	120	95	3	4	93	66	66	62	3	NM	63	60	15	12	1	1	14	11	42	24	
Wisconsin	110	69	58.1%	40	21	70	49	0	0	36	17	27	23	3	3	24	19	11	9	0	0	11	9	35	21	
West North Central	1,407	1,102	27.6%	1,033	811	374	291	13	10	1,019	800	168	138	0	1	167	137	15	11	0	0	15	11	191	143	
Iowa	112	85	32.1%	11	7	101	78	4	3	7	3	61	49	0	0	61	49	3	2	0	0	3	2	37	27	
Kansas	50	27	83.1%	26	9	24	18	NM	NM	25	8	9	7	0	0	9	7	0	0	0	0	0	0	0	15	11
Minnesota	982	775	26.7%	923	726	59	49	NM	NM	921	724	13	16	0	0	13	16	8	6	0	0	8	6	38	28	
Missouri	232	190	22.0%	53	53	179	137	3	2	50	50	80	63	0	1	80	62	4	3	0	0	4	3	95	73	
Nebraska	29	23	24.4%	19	16	10	7	4	NM	15	13	3	2	0	0	3	2	1	0	0	0	1	0	6	4	
North Dakota	0	0	16.4%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Dakota	2	1	10.6%	NM	NM	1	1	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Atlantic	12,713	9,104	39.6%	10,914	7,641	1,799	1,463	3,579	2,174	7,257	5,391	482	457	75	72	407	385	193	176	NM	NM	190	172	1,202	906	
Delaware	96	89	7.6%	30	26	66	64	3	3	27	23	17	18	0	0	17	18	5	4	0	0	5	4	44	42	
District of Columbia	68	48	40.1%	9	7	59	41	0	0	9	7	28	21	0	0	28	21	0	0	0	0	0	0	30	21	
Florida	3,692	2,311	59.7%	3,168	1,984	524	328	2,827	1,716	335	261	83	73	6	6	77	67	9	7	NM	NM	8	5	439	255	
Georgia	1,911	1,169	63.5%	1,745	1,011	167	157	165	153	1,578	857	24	22	NM	NM	23	21	131	126	0	0	131	126	13	10	
Maryland	818	753	8.6%	301	249	517	505	4	4	286	235	142	144	11	10	131	134	18	19	0	0	18	19	369	352	
North Carolina	4,443	3,731	19.1%	4,267	3,596	176	135	289	195	3,923	3,347	119	117	55	54	63	63	7	4	0	0	7	4	105	68	
South Carolina	966	512	88.5%	777	346	189	166	5	NM	770	342	38	41	0	0	38	41	23	15	NM	NM	21	13	130	112	
Virginia	711	484	47.0%	616	422	95	62	286	100	329	320	30	19	NM	NM	28	18	1	1	0	0	1	1	65	43	
West Virginia	8	6	27.7%	0	0	8	6	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	5	4	
East South Central	706	621	13.7%	615	540	90	81	36	35	574	499	58	56	2	2	56	54	5	4	3	3	2	1	33	25	
Alabama	202	207	-2.3%	194	200	8	7	15	15	179	185	5	5	0	0	5	5	1	1	0	0	1	1	2	2	
Kentucky	45	39	16.9%	20	19	26	19	19	19	NM	NM	12	11	0	0	12	11	1	1	0	0	1	1	13	8	
Mississippi	233	167	40.0%	225	160	8	7	0	0	225	160	4	4	0	0	4	4	0	0	0	0	0	0	4	3	
Tennessee	225	208	7.9%	176	161	49	48	NM	NM	169	154	37	36	2	2	35	34	3	3	3	3	0	0	14	13	
West South Central	4,084	2,826	44.5%	3,271	2,206	813	620	43	36	3,271	2,168	165	138	12	NM	153	136	4	3	0	0	4	3	656	480	
Arkansas	134	114	17.4%	106	98	28	17	NM	NM	95	97	19	5	10	0	9	5	2	2	0	0	2	2	16	10	
Louisiana	130	122	6.0%	NM	NM	129	122	NM	NM	0	0	7	8	0	0	7	8	0	0	0	0	0	0	0	121	113
Oklahoma	44	40	11.5%	31	30	13	9	31	30	0	0	3	2	0	0	3	2	0	0	0	0	0	0	10	7	
Texas	3,776	2,550	48.1%	3,132	2,077	644	472	10	4	3,120	2,071	136	122	NM	NM	134	120	1	1	0	0	1	1	509	351	
Mountain	11,107	9,513	16.8%	8,339	7,147	2,769	2,367	624	502	7,660	6,598	767	694	52	45	715	649	39	36	4	NM	36	34	2,018	1,684	
Arizona	4,013	3,488	15.1%	2,523	2,178	1,490	1,310	359	337	2,157	1,834	444	393	6	6	438	387	7	7	0	0	7	7	1,045	917	
Colorado	1,080	918	17.7%	738	600	342	318	4	3	720	589	126	120	14	8	112	112	1	1	0	0	1	1	229	205	
Idaho	321	298	7.9%	281	272	40	26	0	0	279	272	4	3	0	0	4	3	4	2	NM	NM	2	1	35	22	
Montana	32	28	15.0%	17	16	15	12	0	0	17	16	4	3	0	0	4	3	0	0	0	0	0	0	11	8	
Nevada	3,153	2,579	22.3%	2,724	2,254	429	325	71	20	2,620	2,202	90	86	32	31	59	55	21	20	1	1	19	19	352	251	
New Mexico	976	820	19.0%	795	673	181	147	190	142	606	530	47	44	0	0	47	44	1	1	0	0	1	1	133	103	
Utah	1,429	1,288	10.9%	1,165	1,064	264	223	0	0	1,165	1,064	49	43	0	0	49	43	5	5	0	0	5	5	210	176	

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 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	9	1	NM	9	1	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	9	1	NM	9	1	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	103	128	-19.9%	0	0	103	128	0	0	0	0
Arizona	87	112	-21.9%	0	0	87	112	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	15	16	-5.7%	0	0	15	16	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	263	310	-15.1%	0	0	263	310	0	0	0	0
California	263	310	-15.1%	0	0	263	310	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	404	439	-8.0%	9	1	395	439	0	0	0	0

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

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

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

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

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

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

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

by State, by Sector, Year-to-Date through June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 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	133	0	--	0	0	133	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	133	0	--	0	0	133	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	24	18	32.9%	24	18	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	24	18	32.9%	24	18	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	461	515	-10.4%	0	0	461	515	0	0	0	0
Arizona	407	410	-0.7%	0	0	407	410	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	54	105	-48.6%	0	0	54	105	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,085	1,069	1.5%	0	0	1,085	1,069	0	0	0	0
California	1,085	1,069	1.5%	0	0	1,085	1,069	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,703	1,602	6.3%	24	18	1,679	1,584	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.

Chapter 2

Consumption of Fossil Fuels

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	26,827	19,765	6,911	5	146
June	36,706	27,697	8,868	7	135
Year to Date					
2018	298,998	222,190	75,439	47	1,323
2019	262,692	194,518	67,020	42	1,112
2020	184,736	136,778	46,950	36	972
Rolling 12 Months Ending in June					
2019	599,908	445,946	151,557	82	2,323
2020	460,509	340,930	117,390	71	2,117

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-June 2020 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	797	112	50	27	607
June	774	122	54	29	569
Year to Date					
2018	7,230	1,201	703	267	5,059
2019	6,631	1,084	676	231	4,640
2020	5,359	788	289	192	4,090
Rolling 12 Months Ending in June					
2019	13,214	2,151	1,329	454	9,281
2020	11,448	1,897	704	409	8,437

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-June 2020 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	27,624	19,878	6,961	32	753
June	37,481	27,819	8,922	36	704
Year to Date					
2018	306,228	223,391	76,142	314	6,381
2019	269,323	195,602	67,696	273	5,751
2020	190,095	137,566	47,240	227	5,062
Rolling 12 Months Ending in June					
2019	613,122	448,097	152,886	536	11,603
2020	471,957	342,828	118,094	480	10,555

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 2.2.A. Petroleum Liquids: Consumption for Electricity Generation, by Sector, 2010-June 2020 (Thousand Barrels)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	1,260	961	247	20	33
June	1,533	1,162	319	20	32
Year to Date					
2018	17,775	10,568	6,789	143	275
2019	10,064	7,235	2,481	102	245
2020	8,379	6,442	1,640	102	195
Rolling 12 Months Ending in June					
2019	20,902	15,011	5,159	228	504
2020	18,746	14,127	3,965	245	409

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-June 2020 (Thousand Barrels)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	130	3	14	22	91
June	145	4	14	17	110
Year to Date					
2018	1,481	78	201	203	1,000
2019	1,303	44	142	252	865
2020	767	23	78	111	555
Rolling 12 Months Ending in June					
2019	2,436	70	295	399	1,672
2020	1,748	49	186	265	1,249

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.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-June 2020 (Thousand Barrels)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	1,390	964	261	42	123
June	1,677	1,166	333	37	142
Year to Date					
2018	19,256	10,646	6,990	346	1,275
2019	11,367	7,279	2,623	354	1,110
2020	9,145	6,465	1,718	213	749
Rolling 12 Months Ending in June					
2019	23,338	15,081	5,454	627	2,176
2020	20,494	14,176	4,151	509	1,657

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-June 2020 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	248	183	54	0	11
June	329	258	58	0	14
Year to Date					
2018	1,757	1,330	340	1	86
2019	1,576	1,152	342	1	82
2020	1,539	1,181	284	1	73
Rolling 12 Months Ending in June					
2019	3,442	2,562	705	2	173
2020	2,769	2,096	499	1	174

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

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

Values for 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-June 2020 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	63	3	8	0	52
June	74	1	6	0	67
Year to Date					
2018	466	7	43	5	411
2019	442	7	49	5	380
2020	337	10	49	3	274
Rolling 12 Months Ending in June					
2019	906	13	99	10	783
2020	760	20	93	4	644

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

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

See the Technical Notes for fuel conversion factors.

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

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

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

Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-June 2020 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	311	187	62	0	62
June	403	258	64	0	81
Year to Date					
2018	2,223	1,336	383	6	497
2019	2,019	1,159	391	7	462
2020	1,876	1,191	334	4	348
Rolling 12 Months Ending in June					
2019	4,347	2,575	805	12	956
2020	3,529	2,116	592	5	817

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 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-June 2020 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	849,293	457,548	343,154	3,743	44,847
June	1,067,313	558,868	455,032	4,206	49,207
Year to Date					
2018	4,850,035	2,537,815	2,017,272	24,552	270,396
2019	5,089,671	2,633,457	2,150,126	25,590	280,498
2020	5,451,364	2,863,215	2,276,570	24,244	287,335
Rolling 12 Months Ending in June					
2019	11,072,679	5,646,823	4,796,789	53,689	575,378
2020	11,912,518	6,188,613	5,085,415	52,276	586,214

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.

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-June 2020 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	100,313	3,752	27,973	6,014	62,574
June	99,427	4,113	28,725	6,063	60,526
Year to Date					
2018	586,875	20,741	161,795	39,736	364,603
2019	613,334	22,125	169,488	39,904	381,816
2020	621,726	23,594	173,039	39,075	386,018
Rolling 12 Months Ending in June					
2019	1,232,421	44,540	339,645	82,025	766,211
2020	1,247,919	48,262	346,359	79,714	773,584

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

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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 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-June 2020 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	949,606	461,300	371,127	9,758	107,422
June	1,166,739	562,981	483,756	10,268	109,734
Year to Date					
2018	5,436,910	2,558,556	2,179,068	64,288	634,998
2019	5,703,004	2,655,582	2,319,614	65,495	662,313
2020	6,073,090	2,886,809	2,449,610	63,319	673,352
Rolling 12 Months Ending in June					
2019	12,305,099	5,691,364	5,136,434	135,714	1,341,588
2020	13,160,437	6,236,876	5,431,773	131,990	1,359,799

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.

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-June 2020 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	19,908	1,640	16,965	1,144	160
June	18,336	1,539	15,372	1,236	189
Year to Date					
2018	136,193	13,013	111,549	9,789	1,841
2019	118,815	9,490	100,712	7,165	1,447
2020	118,836	9,749	100,019	7,723	1,345
Rolling 12 Months Ending in June					
2019	252,857	20,057	212,675	17,166	2,958
2020	241,177	19,366	203,312	15,703	2,796

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

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

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

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

Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2010-June 2020 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	214	0	107	54	53
June	271	0	145	65	60
Year to Date					
2018	1,861	0	965	431	464
2019	1,937	0	1,046	474	417
2020	1,707	0	942	363	402
Rolling 12 Months Ending in June					
2019	3,697	0	1,947	953	796
2020	3,416	0	1,889	709	818

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

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

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

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

Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2010-June 2020 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	20,122	1,640	17,072	1,198	213
June	18,607	1,539	15,517	1,301	250
Year to Date					
2018	138,053	13,013	112,515	10,220	2,305
2019	120,752	9,490	101,758	7,639	1,864
2020	120,543	9,749	100,961	8,086	1,747
Rolling 12 Months Ending in June					
2019	256,554	20,057	214,623	18,120	3,754
2020	244,593	19,366	205,202	16,412	3,613

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

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

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	1,279	24	1,071	183	1
June	1,210	25	1,005	178	1
Year to Date					
2018	8,315	216	6,883	1,210	5
2019	7,529	148	6,270	1,105	5
2020	7,494	134	6,302	1,053	6
Rolling 12 Months Ending in June					
2019	15,997	398	13,247	2,343	9
2020	15,299	284	12,853	2,152	11

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.

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

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

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

Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2010-June 2020 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	140	0	67	57	16
June	123	0	67	43	13
Year to Date					
2018	1,027	0	365	571	91
2019	818	0	379	348	90
2020	797	0	400	308	90
Rolling 12 Months Ending in June					
2019	1,840	0	766	886	188
2020	1,556	0	763	606	187

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.

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

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

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

Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and

Useful Thermal Output, by Sector, 2010-June 2020 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	1,419	24	1,138	239	17
June	1,333	25	1,072	221	14
Year to Date					
2018	9,342	216	7,249	1,782	96
2019	8,346	148	6,650	1,454	95
2020	8,292	134	6,701	1,361	95
Rolling 12 Months Ending in June					
2019	17,837	398	14,012	3,230	196
2020	16,855	284	13,616	2,758	198

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.

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

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

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

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	26,343	2,470	10,477	29	13,366
June	25,326	2,450	10,106	54	12,716
Year to Date					
2018	181,071	22,975	73,188	242	84,666
2019	171,215	22,394	66,422	254	82,145
2020	159,121	16,667	61,489	211	80,755
Rolling 12 Months Ending in June					
2019	351,846	45,274	136,522	531	169,519
2020	333,431	38,250	130,184	540	164,457

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	75,779	311	2,554	322	72,593
June	66,416	321	2,202	395	63,499
Year to Date					
2018	459,881	4,867	11,117	2,480	441,417
2019	487,846	5,651	10,756	2,499	468,940
2020	431,903	3,819	12,263	2,245	413,577
Rolling 12 Months Ending in June					
2019	957,330	11,081	21,262	4,825	920,162
2020	914,801	8,831	23,136	4,715	878,119

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

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
May	102,122	2,781	13,032	351	85,958
June	91,742	2,771	12,309	448	76,214
Year to Date					
2018	640,952	27,842	84,305	2,723	526,083
2019	659,061	28,045	77,178	2,753	551,085
2020	591,025	20,485	73,751	2,456	494,332
Rolling 12 Months Ending in June					
2019	1,309,176	56,355	157,784	5,356	1,089,681
2020	1,248,232	47,081	153,319	5,255	1,042,576

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

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**Table 2.8.A. Consumption of Coal for Electricity Generation by State, by Sector,
June 2020 and June 2019 (Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	4	17	-79.0%	3	16	1	0	0	0	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	1	1	33.0%	0	0	1	0	0	0	NM	NM
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	3	16	-85.0%	3	16	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	1,142	1,569	-27.0%	0	0	1,141	1,566	0	0	1	3
New Jersey	33	37	-11.0%	0	0	33	37	0	0	0	0
New York	0	0	-100.0%	0	0	0	0	0	0	0	0
Pennsylvania	1,110	1,531	-28.0%	0	0	1,108	1,529	0	0	1	3
East North Central	7,925	9,047	-12.0%	4,749	5,340	3,124	3,657	1	1	51	49
Illinois	1,576	2,210	-29.0%	102	142	1,435	2,029	1	1	39	39
Indiana	2,002	2,188	-8.5%	1,822	2,072	180	116	0	NM	0	0
Michigan	1,398	1,869	-25.0%	1,381	1,850	16	18	0	0	NM	1
Ohio	1,687	1,706	-1.1%	194	211	1,493	1,495	0	0	0	0
Wisconsin	1,262	1,074	18.0%	1,250	1,064	0	0	0	0	12	9
West North Central	7,130	8,467	-16.0%	7,067	8,379	0	0	1	1	61	86
Iowa	675	1,235	-45.0%	635	1,190	0	0	1	1	39	43
Kansas	1,104	975	13.0%	1,104	975	0	0	0	0	0	0
Minnesota	490	1,001	-51.0%	486	986	0	0	0	0	4	14
Missouri	2,372	2,491	-4.8%	2,372	2,491	0	0	0	0	0	0
Nebraska	930	1,145	-19.0%	913	1,119	0	0	0	0	16	26
North Dakota	1,510	1,488	1.5%	1,508	1,485	0	0	0	0	2	2
South Dakota	49	133	-63.0%	49	133	0	0	0	0	0	0
South Atlantic	4,859	6,494	-25.0%	4,175	6,056	679	426	0	0	5	12
Delaware	0	2	-100.0%	0	0	0	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	685	970	-29.0%	684	969	0	0	0	0	1	NM
Georgia	450	1,412	-68.0%	448	1,410	0	0	0	0	2	NM
Maryland	242	160	51.0%	0	0	242	160	0	0	0	0
North Carolina	1,045	1,132	-7.7%	1,040	1,127	3	3	0	0	2	2
South Carolina	489	551	-11.0%	486	551	3	0	0	0	0	0
Virginia	102	210	-52.0%	99	199	2	5	0	0	0	6
West Virginia	1,846	2,058	-10.0%	1,418	1,801	428	256	0	0	0	0
East South Central	4,224	4,414	-4.3%	3,978	4,139	241	267	0	0	5	8
Alabama	1,114	1,192	-6.6%	1,114	1,191	0	0	0	0	0	NM
Kentucky	1,936	2,291	-15.0%	1,936	2,291	0	0	0	0	0	0
Mississippi	418	401	4.3%	177	134	241	267	0	0	0	0
Tennessee	756	530	43.0%	751	523	0	0	0	0	5	7
West South Central	6,395	8,162	-22.0%	3,117	4,279	3,278	3,877	0	0	1	6
Arkansas	766	1,259	-39.0%	607	1,034	159	226	0	0	1	0
Louisiana	432	505	-14.0%	421	489	11	16	0	0	0	0
Oklahoma	455	503	-9.6%	455	474	0	24	0	0	0	6
Texas	4,742	5,895	-20.0%	1,634	2,282	3,108	3,612	0	0	0	0
Mountain	4,936	5,919	-17.0%	4,583	5,242	347	670	0	0	6	7
Arizona	735	1,082	-32.0%	735	1,082	0	0	0	0	0	0
Colorado	908	1,047	-13.0%	908	1,047	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	244	567	-57.0%	19	23	225	543	0	0	NM	NM
Nevada	117	113	3.1%	77	71	39	42	0	0	0	0
New Mexico	664	702	-5.4%	664	702	0	0	0	0	0	0
Utah	801	854	-6.2%	764	815	37	38	0	0	0	0
Wyoming	1,467	1,555	-5.6%	1,416	1,502	45	46	0	0	6	7
Pacific Contiguous	5	92	-95.0%	0	0	0	87	0	0	5	5
California	4	5	-12.0%	0	0	0	0	0	0	4	5
Oregon	0	0	-100.0%	0	0	0	0	0	0	0	0
Washington	0	88	-100.0%	0	0	0	87	0	0	0	0
Pacific Noncontiguous	87	92	-5.5%	NM	NM	58	60	4	2	0	0
Alaska	39	43	-7.9%	NM	NM	10	10	4	2	0	0
Hawaii	48	49	-3.5%	0	0	48	49	0	0	0	0
U.S. Total	36,706	44,274	-17.0%	27,697	33,482	8,868	10,611	7	4	135	176

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

Notes: See Glossary for definitions. Values 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 June 2020 and June 2019 (Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	32	147	-78.0%	25	92	5	52	0	0	NM	2
Connecticut	0	46	-100.0%	0	0	0	46	0	0	0	0
Maine	7	9	-18.0%	0	0	5	7	0	0	NM	2
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	25	92	-73.0%	25	92	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	6,846	10,905	-37.0%	0	0	6,840	10,886	0	0	6	19
New Jersey	201	224	-10.0%	0	0	201	224	0	0	0	0
New York	64	147	-57.0%	0	0	64	147	0	0	0	0
Pennsylvania	6,581	10,534	-38.0%	0	0	6,575	10,515	0	0	6	19
East North Central	38,047	59,883	-36.0%	22,660	35,586	15,065	23,963	5	10	316	325
Illinois	7,456	15,176	-51.0%	456	1,013	6,748	13,917	4	5	249	240
Indiana	10,098	15,982	-37.0%	9,005	15,110	1,091	868	2	4	0	0
Michigan	6,368	10,992	-42.0%	6,265	10,901	98	79	0	0	6	11
Ohio	8,018	10,225	-22.0%	889	1,125	7,129	9,100	0	0	0	0
Wisconsin	6,106	7,509	-19.0%	6,045	7,436	0	0	0	0	62	72
West North Central	40,119	50,434	-20.0%	39,680	49,914	0	0	7	10	432	510
Iowa	3,151	6,542	-52.0%	2,914	6,292	0	0	6	8	231	242
Kansas	4,719	5,362	-12.0%	4,719	5,362	0	0	0	0	0	0
Minnesota	3,051	5,419	-44.0%	3,028	5,328	0	0	0	0	24	91
Missouri	13,365	16,343	-18.0%	13,364	16,342	0	0	1	1	0	0
Nebraska	5,656	6,244	-9.4%	5,494	6,084	0	0	0	0	162	161
North Dakota	9,705	9,665	0.4%	9,689	9,649	0	0	0	0	16	16
South Dakota	472	859	-45.0%	472	859	0	0	0	0	0	0
South Atlantic	20,063	32,646	-39.0%	18,004	29,414	1,993	3,139	5	7	62	86
Delaware	0	27	-100.0%	0	0	0	27	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,789	4,380	-36.0%	2,785	4,374	0	0	0	0	4	6
Georgia	1,828	6,648	-72.0%	1,811	6,631	0	0	0	0	18	17
Maryland	488	1,052	-54.0%	0	0	488	1,044	0	0	0	8
North Carolina	2,891	4,951	-42.0%	2,856	4,901	17	30	4	6	13	13
South Carolina	2,145	2,959	-28.0%	2,138	2,958	6	0	0	0	1	1
Virginia	529	853	-38.0%	494	763	8	50	0	1	27	40
West Virginia	9,393	11,776	-20.0%	7,919	9,787	1,474	1,989	0	0	0	0
East South Central	18,769	25,192	-25.0%	17,177	23,638	1,548	1,499	0	0	44	55
Alabama	4,891	6,656	-27.0%	4,889	6,649	0	0	0	0	NM	7
Kentucky	9,479	12,523	-24.0%	9,479	12,523	0	0	0	0	0	0
Mississippi	1,977	2,136	-7.4%	429	637	1,548	1,499	0	0	0	0
Tennessee	2,421	3,877	-38.0%	2,379	3,829	0	0	0	0	42	48
West South Central	29,678	43,461	-32.0%	12,760	22,749	16,889	20,675	0	0	28	37
Arkansas	3,577	6,389	-44.0%	2,721	5,429	853	957	0	0	3	4
Louisiana	1,116	2,620	-57.0%	1,026	1,802	90	818	0	0	0	0
Oklahoma	1,005	2,985	-66.0%	908	2,888	72	63	0	0	25	33
Texas	23,980	31,467	-24.0%	8,105	12,629	15,875	18,837	0	0	0	0
Mountain	29,396	37,314	-21.0%	25,919	32,464	3,428	4,803	0	0	48	46
Arizona	3,215	6,159	-48.0%	3,215	6,159	0	0	0	0	0	0
Colorado	5,618	6,898	-19.0%	5,618	6,897	0	0	0	0	0	1
Idaho	2	2	-1.1%	0	0	0	0	0	0	2	2
Montana	2,878	4,206	-32.0%	112	138	2,764	4,066	0	0	2	2
Nevada	430	729	-41.0%	144	457	286	272	0	0	0	0
New Mexico	3,382	3,573	-5.4%	3,382	3,573	0	0	0	0	0	0
Utah	4,568	5,556	-18.0%	4,443	5,347	125	208	0	0	0	0
Wyoming	9,303	10,192	-8.7%	9,005	9,894	254	257	0	0	44	41
Pacific Contiguous	1,198	2,121	-43.0%	370	483	797	1,605	0	0	31	33
California	28	29	-5.5%	0	0	0	0	0	0	28	29
Oregon	370	483	-23.0%	370	483	0	0	0	0	0	0
Washington	800	1,608	-50.0%	0	0	797	1,605	0	0	4	3
Pacific Noncontiguous	589	590	-0.2%	184	178	386	396	19	15	0	0
Alaska	271	256	5.7%	184	178	68	63	19	15	0	0
Hawaii	318	334	-4.8%	0	0	318	334	0	0	0	0
U.S. Total	184,736	262,692	-30.0%	136,778	194,518	46,950	67,020	36	42	972	1,112

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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, June 2020 and June 2019 (Thousand Barrels)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	40	25	58.0%	9	5	29	18	1	1	1	1
Connecticut	NM	NM	NM	1	1	NM	NM	NM	NM	0	0
Maine	12	2	660.0%	0	0	11	0	0	1	1	1
Massachusetts	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
New Hampshire	6	2	165.0%	6	2	NM	NM	0	0	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	68	51	33.0%	16	NM	49	40	NM	NM	2	3
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	30	18	69.0%	16	NM	13	NM	NM	NM	0	1
Pennsylvania	33	30	12.0%	0	0	31	26	1	2	2	2
East North Central	73	110	-33.0%	46	77	27	32	0	NM	0	1
Illinois	8	7	6.8%	1	1	7	6	NM	NM	0	0
Indiana	19	36	-46.0%	19	35	0	0	0	NM	0	0
Michigan	18	20	-13.0%	18	20	0	0	NM	NM	NM	0
Ohio	22	40	-45.0%	1	14	20	26	0	0	0	0
Wisconsin	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
West North Central	62	60	2.0%	60	59	NM	NM	0	0	0	0
Iowa	21	14	49.0%	21	13	NM	1	0	0	0	0
Kansas	8	10	-16.0%	8	10	0	0	0	0	0	0
Minnesota	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Missouri	15	20	-26.0%	15	20	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	5	5	11.0%	5	5	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	200	223	-11.0%	141	180	37	25	15	11	7	7
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	41	78	-48.0%	38	76	NM	NM	0	0	1	1
Georgia	20	17	20.0%	14	10	NM	NM	0	1	4	5
Maryland	26	11	126.0%	NM	0	26	11	0	0	0	0
North Carolina	33	37	-11.0%	31	35	NM	NM	NM	NM	1	1
South Carolina	15	15	4.1%	15	14	0	0	0	NM	0	0
Virginia	50	35	42.0%	31	19	4	6	14	10	0	NM
West Virginia	11	25	-57.0%	11	25	0	0	0	0	0	0
East South Central	38	55	-31.0%	37	54	0	NM	0	0	1	1
Alabama	4	2	97.0%	3	1	0	NM	0	0	NM	NM
Kentucky	16	11	43.0%	16	11	0	0	0	0	0	0
Mississippi	1	3	-69.0%	1	3	0	0	0	0	0	0
Tennessee	18	39	-55.0%	17	39	0	0	0	0	0	0
West South Central	33	18	86.0%	29	16	4	NM	0	0	0	1
Arkansas	11	5	136.0%	9	5	2	0	0	0	0	0
Louisiana	4	2	91.0%	4	2	0	0	0	0	0	0
Oklahoma	9	3	217.0%	9	2	0	0	0	0	0	0
Texas	9	8	7.4%	6	7	2	NM	0	0	0	0
Mountain	29	39	-25.0%	27	34	2	5	NM	0	0	0
Arizona	8	11	-32.0%	8	11	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	0
Idaho	0	0	-100.0%	0	0	0	0	0	0	0	0
Montana	NM	5	NM	NM	NM	1	5	0	0	0	0
Nevada	1	3	-56.0%	1	3	0	0	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	5	4	30.0%	4	4	0	0	0	0	0	0
Wyoming	8	11	-22.0%	8	11	0	0	0	0	0	0
Pacific Contiguous	NM	14	NM	NM	6	1	6	NM	NM	NM	NM
California	NM	7	NM	NM	5	1	1	0	0	NM	NM
Oregon	NM	NM	NM	0	1	0	0	NM	NM	0	0
Washington	NM	7	NM	NM	NM	NM	5	0	0	NM	NM
Pacific Noncontiguous	983	1,135	-13.0%	793	887	169	222	2	2	19	24
Alaska	138	126	10.0%	134	120	0	0	NM	0	4	5
Hawaii	845	1,009	-16.0%	659	767	169	222	2	2	15	18
U.S. Total	1,533	1,731	-11.0%	1,162	1,325	319	351	20	18	32	37

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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 June 2020 and June 2019 (Thousand Barrels)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	178	269	-34.0%	26	33	138	209	11	19	4	7
Connecticut	74	102	-28.0%	4	4	69	94	NM	3	0	2
Maine	26	16	64.0%	0	0	20	8	2	4	3	5
Massachusetts	46	103	-55.0%	NM	NM	34	86	2	4	0	1
New Hampshire	17	25	-31.0%	10	15	NM	NM	6	7	0	0
Rhode Island	NM	22	NM	0	0	NM	NM	0	1	NM	NM
Vermont	2	NM	NM	2	NM	0	0	0	0	0	0
Middle Atlantic	389	982	-60.0%	78	294	291	652	NM	13	13	23
New Jersey	48	88	-46.0%	0	3	47	84	0	1	0	1
New York	205	606	-66.0%	77	292	120	296	NM	NM	3	11
Pennsylvania	136	287	-53.0%	0	0	124	271	3	5	10	11
East North Central	378	501	-24.0%	253	310	122	182	1	2	2	7
Illinois	30	44	-31.0%	5	6	25	38	NM	NM	0	0
Indiana	105	135	-23.0%	104	131	0	0	0	NM	1	4
Michigan	89	90	-0.5%	89	87	0	0	0	1	0	1
Ohio	109	184	-41.0%	14	44	94	138	0	0	1	2
Wisconsin	45	48	-4.5%	NM	41	3	5	0	1	0	0
West North Central	310	375	-17.0%	303	361	NM	11	1	2	0	1
Iowa	62	71	-11.0%	60	67	3	3	0	0	0	0
Kansas	86	61	41.0%	86	61	0	0	0	0	0	0
Minnesota	35	46	-24.0%	31	36	NM	NM	1	1	0	1
Missouri	65	120	-46.0%	65	120	0	0	0	0	0	0
Nebraska	NM	26	NM	NM	26	0	0	0	0	0	0
North Dakota	36	43	-17.0%	36	43	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	810	1,214	-33.0%	583	887	125	230	67	52	36	45
Delaware	22	47	-54.0%	0	0	21	46	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	156	270	-42.0%	144	260	6	3	0	0	6	7
Georgia	64	101	-37.0%	42	63	NM	11	1	2	17	25
Maryland	67	101	-33.0%	1	2	66	97	NM	0	0	1
North Carolina	143	252	-43.0%	133	239	NM	8	NM	NM	5	5
South Carolina	68	94	-27.0%	65	87	1	3	0	NM	2	4
Virginia	163	246	-34.0%	72	133	21	62	65	49	5	2
West Virginia	126	103	22.0%	126	103	0	1	0	0	0	0
East South Central	181	292	-38.0%	177	284	1	2	0	0	3	6
Alabama	7	18	-59.0%	5	13	1	2	0	0	1	4
Kentucky	70	84	-17.0%	70	84	0	0	0	0	0	0
Mississippi	8	17	-51.0%	7	16	0	0	0	0	1	1
Tennessee	96	173	-45.0%	95	171	0	0	0	0	1	2
West South Central	123	132	-6.9%	97	98	25	30	0	1	1	5
Arkansas	45	43	5.1%	37	29	8	12	0	0	0	1
Louisiana	10	12	-13.0%	10	12	0	0	0	0	0	0
Oklahoma	20	21	-5.1%	19	19	0	0	0	0	0	2
Texas	48	57	-15.0%	30	37	17	17	0	1	1	2
Mountain	165	219	-25.0%	154	202	10	17	NM	0	0	0
Arizona	36	68	-47.0%	36	68	0	0	NM	NM	0	0
Colorado	NM	16	NM	NM	16	0	0	0	0	0	0
Idaho	0	0	-54.0%	0	0	0	0	0	0	0	0
Montana	NM	17	NM	NM	NM	7	14	0	0	0	0
Nevada	7	12	-46.0%	5	10	1	3	0	0	0	0
New Mexico	31	37	-17.0%	31	37	0	0	0	0	0	0
Utah	33	34	-2.2%	31	33	2	1	0	0	0	0
Wyoming	39	35	11.0%	39	35	0	0	0	0	0	0
Pacific Contiguous	54	65	-17.0%	35	35	12	14	NM	NM	8	15
California	39	47	-18.0%	29	32	7	4	0	0	3	11
Oregon	NM	NM	NM	2	2	0	0	NM	NM	0	0
Washington	14	16	-10.0%	NM	NM	5	10	0	0	4	5
Pacific Noncontiguous	5,790	6,014	-3.7%	4,737	4,730	911	1,135	15	13	127	136
Alaska	875	773	13.0%	842	738	0	0	3	4	30	30
Hawaii	4,915	5,241	-6.2%	3,895	3,992	911	1,135	12	9	98	106
U.S. Total	8,379	10,064	-17.0%	6,442	7,235	1,640	2,481	102	102	195	245

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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, June 2020 and June 2019 (Thousand Tons)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 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	102	52	97.0%	47	4	48	42	0	0	7	6
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	50	5	825.0%	44	0	0	0	0	0	7	5
Ohio	48	43	12.0%	0	0	48	42	0	0	0	0
Wisconsin	4	4	-6.2%	4	4	0	0	0	0	0	0
West North Central	1	1	36.0%	0	0	0	0	0	0	1	1
Iowa	1	1	36.0%	0	0	0	0	0	0	1	1
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	67	44	50.0%	63	42	0	0	0	0	3	3
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	63	42	52.0%	63	42	0	0	0	0	0	0
Georgia	3	3	27.0%	0	0	0	0	0	0	3	3
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	150	110	37.0%	147	105	0	0	0	0	3	4
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	147	105	40.0%	147	105	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3	4	-32.0%	0	0	0	0	0	0	3	4
Mountain	10	11	-6.1%	0	0	10	11	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	10	11	-6.1%	0	0	10	11	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	329	218	51.0%	258	151	58	53	0	0	14	14

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 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	9	-80.0%	0	0	0	0	0	0	2	9
New Jersey	2	4	-50.0%	0	0	0	0	0	0	2	4
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	6	-100.0%	0	0	0	0	0	0	0	6
East North Central	443	480	-7.7%	210	197	202	256	0	0	31	27
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	223	206	8.1%	192	180	0	0	0	0	31	27
Ohio	202	256	-21.0%	0	0	202	256	0	0	0	0
Wisconsin	18	18	2.6%	18	18	0	0	0	0	0	0
West North Central	5	2	166.0%	0	0	0	0	1	1	4	1
Iowa	5	2	166.0%	0	0	0	0	1	1	4	1
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	287	264	8.8%	272	248	0	0	0	0	16	16
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	272	248	9.4%	272	248	0	0	0	0	0	0
Georgia	16	16	-1.9%	0	0	0	0	0	0	16	16
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	720	735	-2.1%	699	706	0	0	0	0	20	29
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	699	707	-1.1%	699	706	0	0	0	0	0	1
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	20	28	-28.0%	0	0	0	0	0	0	20	28
Mountain	82	86	-3.9%	0	0	82	86	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	82	86	-3.9%	0	0	82	86	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,539	1,576	-2.4%	1,181	1,152	284	342	1	1	73	82

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

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

Table 2.11.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, June 2020 and June 2019 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	34,554	28,815	20.0%	NM	NM	33,004	27,522	482	456	736	702
Connecticut	14,741	11,969	23.0%	31	26	14,196	11,455	182	173	331	315
Maine	1,753	932	88.0%	0	0	1,546	756	13	13	194	163
Massachusetts	8,951	8,225	8.8%	NM	NM	8,335	7,788	260	241	75	94
New Hampshire	2,888	2,518	15.0%	18	4	2,852	2,495	3	3	15	15
Rhode Island	6,218	5,168	20.0%	0	0	6,074	5,028	23	26	NM	114
Vermont	2	3	-48.0%	1	3	0	0	1	0	0	0
Middle Atlantic	133,051	113,737	17.0%	9,382	8,016	121,931	103,956	584	630	1,153	1,134
New Jersey	20,975	24,203	-13.0%	NM	NM	20,608	23,820	53	74	180	178
New York	39,440	31,739	24.0%	9,241	7,883	29,403	23,065	502	503	295	288
Pennsylvania	72,635	57,795	26.0%	7	2	71,920	57,071	29	54	679	669
East North Central	110,794	95,479	16.0%	42,728	35,047	64,997	57,593	644	605	2,426	2,234
Illinois	20,666	13,492	53.0%	2,618	1,052	17,501	11,912	162	167	385	360
Indiana	22,525	19,185	17.0%	11,216	9,450	9,913	8,471	93	53	1,302	1,211
Michigan	23,509	18,769	25.0%	9,961	6,807	13,057	11,486	243	245	248	231
Ohio	29,722	31,279	-5.0%	6,202	6,192	23,309	24,897	111	112	100	78
Wisconsin	14,373	12,753	13.0%	12,730	11,545	1,217	826	35	28	391	354
West North Central	23,098	21,952	5.2%	19,804	18,532	2,948	3,006	155	153	191	261
Iowa	4,823	4,506	7.0%	4,649	4,272	NM	NM	58	58	116	169
Kansas	2,419	3,207	-25.0%	2,405	3,182	0	0	0	0	14	24
Minnesota	6,292	5,828	8.0%	5,134	5,089	1,077	663	43	27	37	48
Missouri	6,259	5,791	8.1%	4,330	3,387	1,871	2,336	49	61	9	7
Nebraska	1,335	853	56.0%	1,330	846	0	0	5	7	0	0
North Dakota	1,007	938	7.3%	991	926	0	0	0	0	15	12
South Dakota	964	830	16.0%	964	830	0	0	0	0	0	0
South Atlantic	266,353	260,488	2.3%	217,190	215,721	45,635	41,248	838	986	2,691	2,532
Delaware	4,077	2,997	36.0%	14	35	3,615	2,447	0	0	448	515
District of Columbia	32	73	-56.0%	0	0	0	0	32	73	0	0
Florida	129,291	127,253	1.6%	121,924	120,087	6,644	6,459	13	7	710	700
Georgia	40,363	37,455	7.8%	30,393	27,708	9,625	9,453	0	1	345	293
Maryland	9,106	8,875	2.6%	1,487	2,199	6,880	5,829	719	828	19	19
North Carolina	26,253	25,383	3.4%	20,967	19,803	5,145	5,448	NM	NM	68	60
South Carolina	14,984	17,280	-13.0%	14,442	16,903	446	319	0	0	96	58
Virginia	39,688	39,692	0.0%	27,850	28,791	11,069	10,247	0	5	769	648
West Virginia	2,559	1,480	73.0%	113	194	2,211	1,046	0	0	235	239
East South Central	96,246	88,234	9.1%	69,581	61,978	25,401	24,975	90	90	1,174	1,190
Alabama	39,115	38,650	1.2%	14,512	15,296	24,028	22,756	0	0	574	598
Kentucky	10,512	8,264	27.0%	9,119	7,977	1,352	210	0	0	40	77
Mississippi	36,358	29,883	22.0%	36,168	27,753	7	1,994	0	0	182	137
Tennessee	10,261	11,436	-10.0%	9,781	10,952	13	15	90	90	376	379
West South Central	265,264	271,009	-2.1%	110,406	109,861	120,313	128,354	496	428	34,049	32,365
Arkansas	12,453	14,859	-16.0%	11,822	14,138	509	572	NM	NM	88	115
Louisiana	47,751	50,313	-5.1%	31,355	33,502	3,146	4,028	67	NM	13,183	12,750
Oklahoma	33,194	32,982	0.6%	23,361	20,951	9,461	11,742	0	0	372	289
Texas	171,866	172,854	-0.6%	43,868	41,271	107,197	112,012	396	360	20,406	19,212
Mountain	82,222	78,652	4.5%	66,829	65,541	14,188	12,055	173	167	1,032	890
Arizona	35,426	33,081	7.1%	27,986	25,096	7,389	7,936	50	49	0	0
Colorado	12,921	9,884	31.0%	10,717	8,746	2,172	1,110	1	0	31	27
Idaho	1,677	2,385	-30.0%	764	1,323	855	1,002	14	13	44	47
Montana	NM	327	NM	NM	312	NM	NM	0	0	NM	NM
Nevada	17,487	17,819	-1.9%	15,879	16,310	1,323	1,286	23	19	262	203
New Mexico	8,060	8,670	-7.0%	5,622	8,350	2,395	NM	42	43	0	0
Utah	5,636	5,945	-5.2%	5,239	5,202	43	429	42	43	313	271
Wyoming	686	542	27.0%	306	200	0	0	0	0	380	341
Pacific Contiguous	53,591	51,840	3.4%	20,501	20,242	26,615	25,263	743	839	5,733	5,497
California	46,070	36,959	25.0%	15,592	11,610	24,461	19,103	722	820	5,296	5,427
Oregon	4,264	8,693	-51.0%	2,463	4,478	1,717	4,158	15	18	NM	39
Washington	3,258	6,187	-47.0%	2,446	4,154	NM	2,002	6	0	369	31
Pacific Noncontiguous	2,140	2,323	-7.9%	2,116	2,299	0	0	0	0	24	24
Alaska	2,140	2,323	-7.9%	2,116	2,299	0	0	0	0	24	24
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,067,313	1,012,529	5.4%	558,868	537,372	455,032	423,972	4,206	4,355	49,207	46,829

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	161,797	157,259	2.9%	671	491	154,044	150,133	2,669	2,580	4,413	4,054
Connecticut	75,973	66,446	14.0%	147	166	72,913	63,550	1,028	989	1,885	1,741
Maine	5,267	4,978	5.8%	0	0	4,144	4,044	76	72	1,047	862
Massachusetts	41,707	52,051	-20.0%	NM	NM	39,067	49,681	1,440	1,391	706	676
New Hampshire	10,535	8,168	29.0%	23	16	10,411	8,037	16	22	85	92
Rhode Island	28,305	25,606	11.0%	0	0	27,508	24,821	107	102	690	683
Vermont	10	10	-7.8%	7	8	0	0	2	3	0	0
Middle Atlantic	639,966	580,422	10.0%	39,526	39,413	590,235	530,504	3,417	3,662	6,788	6,843
New Jersey	96,595	126,428	-24.0%	NM	NM	94,650	124,477	334	400	1,061	1,000
New York	173,044	160,934	7.5%	38,965	38,848	129,345	117,312	2,830	2,916	1,903	1,858
Pennsylvania	370,328	293,060	26.0%	11	14	366,240	288,715	253	346	3,824	3,985
East North Central	587,561	515,727	14.0%	221,144	180,409	348,380	317,897	3,737	3,761	14,299	13,659
Illinois	78,874	60,519	30.0%	10,164	3,658	65,766	53,940	976	942	1,968	1,980
Indiana	115,906	104,311	11.0%	53,503	45,010	54,702	51,610	452	419	7,249	7,272
Michigan	131,984	110,201	20.0%	50,247	35,889	78,346	71,030	1,538	1,616	1,853	1,666
Ohio	179,044	173,278	3.3%	33,053	34,713	144,907	137,500	482	520	601	545
Wisconsin	81,753	67,418	21.0%	74,177	61,139	4,658	3,817	290	265	2,628	2,197
West North Central	107,431	99,835	7.6%	89,649	84,869	14,985	12,401	825	856	1,972	1,709
Iowa	22,929	21,280	7.7%	21,709	20,016	NM	NM	250	260	969	972
Kansas	10,768	11,890	-9.4%	10,251	11,593	0	0	0	0	517	298
Minnesota	31,714	30,421	4.3%	26,497	26,580	4,694	3,262	235	258	289	321
Missouri	25,673	25,188	1.9%	14,988	15,706	10,291	9,106	319	318	75	58
Nebraska	4,904	3,253	51.0%	4,883	3,232	0	0	21	20	0	0
North Dakota	6,262	4,545	38.0%	6,140	4,485	0	0	0	0	122	61
South Dakota	5,181	3,257	59.0%	5,181	3,257	0	0	0	0	0	0
South Atlantic	1,388,740	1,303,422	6.5%	1,143,080	1,081,718	224,784	201,370	5,129	5,783	15,747	14,551
Delaware	14,647	13,841	5.8%	26	52	11,743	10,982	0	0	2,878	2,807
District of Columbia	180	301	-40.0%	0	0	0	0	180	301	0	0
Florida	652,649	625,423	4.4%	619,575	597,060	28,808	24,240	66	55	4,200	4,068
Georgia	198,897	186,069	6.9%	149,899	141,978	46,869	42,273	0	1	2,129	1,817
Maryland	50,086	52,793	-5.1%	9,979	14,265	35,659	33,404	4,342	4,928	106	196
North Carolina	149,659	146,019	2.5%	121,146	117,244	27,564	27,931	499	458	450	385
South Carolina	88,771	81,433	9.0%	86,396	78,106	1,799	2,944	0	0	577	383
Virginia	225,034	192,711	17.0%	155,859	132,220	64,937	56,691	43	40	4,195	3,759
West Virginia	8,817	4,832	82.0%	199	792	7,405	2,905	0	0	1,212	1,135
East South Central	469,881	454,367	3.4%	343,311	314,596	118,711	132,069	544	481	7,315	7,220
Alabama	179,113	189,029	-5.2%	62,880	71,404	112,689	114,004	0	0	3,545	3,620
Kentucky	46,294	47,362	-2.3%	43,716	45,449	2,111	1,435	0	0	467	479
Mississippi	191,021	160,590	19.0%	186,070	142,960	3,838	16,555	0	0	1,113	1,075
Tennessee	53,452	57,387	-6.9%	50,645	54,783	73	75	544	481	2,190	2,047
West South Central	1,309,982	1,248,484	4.9%	529,081	479,544	581,329	572,731	2,312	2,438	197,260	193,771
Arkansas	57,157	66,896	-15.0%	52,864	62,363	3,535	3,523	NM	202	557	808
Louisiana	253,110	245,819	3.0%	163,822	150,043	13,275	15,931	412	323	75,601	79,522
Oklahoma	167,451	142,338	18.0%	110,606	91,788	54,913	48,958	0	0	1,932	1,592
Texas	832,263	793,432	4.9%	201,790	175,351	509,606	504,319	1,698	1,913	119,170	111,850
Mountain	422,253	385,135	9.6%	338,779	309,212	76,262	68,826	1,035	1,110	6,176	5,987
Arizona	167,262	146,869	14.0%	129,095	113,122	37,880	33,449	288	298	0	0
Colorado	67,853	57,889	17.0%	57,344	48,668	10,297	9,045	28	7	183	170
Idaho	13,173	11,583	14.0%	6,668	5,173	6,112	6,049	87	82	306	279
Montana	1,997	2,339	-15.0%	1,804	1,688	179	641	0	0	14	10
Nevada	89,791	82,815	8.4%	81,186	74,297	7,365	7,304	118	132	1,121	1,083
New Mexico	47,886	46,105	3.9%	33,366	34,160	14,163	11,680	236	255	121	10
Utah	30,021	34,384	-13.0%	27,581	30,973	257	648	278	337	1,904	2,426
Wyoming	4,271	3,150	36.0%	1,736	1,131	9	10	0	0	2,527	2,010
Pacific Contiguous	349,449	331,771	5.3%	143,803	130,108	167,841	164,194	4,576	4,919	33,230	32,550
California	249,894	238,817	4.6%	84,063	80,437	129,867	121,535	4,433	4,781	31,532	32,064
Oregon	59,195	59,285	-0.2%	30,258	28,479	28,428	30,460	114	109	395	236
Washington	40,360	33,669	20.0%	29,482	21,191	9,546	12,199	29	29	1,303	250
Pacific Noncontiguous	14,305	13,248	8.0%	14,170	13,096	0	0	0	0	135	152
Alaska	14,305	13,248	8.0%	14,170	13,096	0	0	0	0	135	152
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	5,451,364	5,089,671	7.1%	2,863,215	2,633,457	2,276,570	2,150,126	24,244	25,590	287,335	280,498

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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 2.12.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector, June 2020 and June 2019 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	700	852	-18.0%	0	0	685	832	16	19	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	48	NM	0	0	NM	48	0	0	0	0
Massachusetts	284	296	-3.9%	0	0	284	296	0	0	0	0
New Hampshire	79	89	-11.0%	0	0	63	69	16	19	0	0
Rhode Island	260	383	-32.0%	0	0	260	383	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	2,889	3,900	-26.0%	0	0	2,774	3,782	NM	22	65	96
New Jersey	355	487	-27.0%	0	0	340	479	NM	NM	0	0
New York	1,149	1,275	-9.9%	0	0	1,149	1,275	0	0	0	0
Pennsylvania	1,385	2,138	-35.0%	0	0	1,284	2,028	NM	NM	65	96
East North Central	4,554	4,812	-5.4%	693	744	3,817	4,017	26	36	18	14
Illinois	783	848	-7.6%	186	201	597	647	0	0	0	0
Indiana	603	637	-5.3%	507	544	96	93	0	0	0	0
Michigan	1,546	1,589	-2.7%	0	0	1,546	1,589	0	0	0	0
Ohio	876	919	-4.7%	0	0	876	919	0	0	0	0
Wisconsin	746	819	-9.0%	0	0	701	769	26	36	18	14
West North Central	720	716	0.6%	231	221	489	494	0	0	0	0
Iowa	203	196	3.6%	0	0	203	196	0	0	0	0
Kansas	112	117	-4.2%	0	0	112	117	0	0	0	0
Minnesota	154	159	-3.5%	NM	48	107	111	0	0	0	0
Missouri	123	127	-2.8%	NM	57	67	70	0	0	0	0
Nebraska	127	116	9.5%	127	116	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	3,691	3,915	-5.7%	333	278	3,192	3,459	NM	NM	105	106
Delaware	81	84	-3.3%	0	0	73	76	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	754	739	2.0%	158	94	595	645	0	0	0	0
Georgia	483	619	-22.0%	0	0	479	604	0	0	5	15
Maryland	150	175	-14.0%	0	0	118	123	NM	NM	0	0
North Carolina	792	837	-5.4%	0	0	777	828	NM	NM	0	0
South Carolina	291	286	1.5%	172	177	NM	NM	0	0	NM	NM
Virginia	1,140	1,174	-2.9%	3	7	1,123	1,157	NM	NM	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	381	407	-6.5%	160	173	221	234	0	0	0	0
Alabama	NM	62	NM	0	0	NM	62	0	0	0	0
Kentucky	174	192	-9.4%	160	173	NM	19	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	129	134	-4.0%	0	0	129	134	0	0	0	0
West South Central	838	889	-5.8%	0	0	838	889	0	0	0	0
Arkansas	84	88	-3.9%	0	0	84	88	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	36	NM	0	0	NM	36	0	0	0	0
Texas	719	766	-6.0%	0	0	719	766	0	0	0	0
Mountain	439	501	-12.0%	NM	NM	376	435	43	44	0	0
Arizona	67	70	-4.1%	0	0	67	70	0	0	0	0
Colorado	76	79	-4.2%	0	0	76	79	0	0	0	0
Idaho	44	47	-7.2%	NM	NM	NM	NM	17	19	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	113	117	-3.6%	0	0	113	117	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	132	180	-27.0%	0	0	106	155	26	25	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,063	3,818	6.4%	103	106	2,982	2,860	979	853	0	0
California	3,550	3,306	7.4%	NM	NM	2,590	2,469	954	831	0	0
Oregon	426	421	1.0%	96	99	305	300	NM	NM	0	0
Washington	87	91	-3.9%	0	0	87	91	0	0	0	0
Pacific Noncontiguous	62	37	67.0%	0	0	0	0	62	37	0	0
Alaska	62	37	67.0%	0	0	0	0	62	37	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	18,336	19,846	-7.6%	1,539	1,544	15,372	17,003	1,236	1,084	189	216

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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 June 2020 and June 2019 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	5,024	4,720	6.4%	0	0	4,935	4,596	89	124	0	0
Connecticut	93	111	-16.0%	0	0	93	111	0	0	0	0
Maine	298	291	2.5%	0	0	298	291	0	0	0	0
Massachusetts	1,801	1,748	3.1%	0	0	1,801	1,748	0	0	0	0
New Hampshire	486	520	-6.6%	0	0	397	397	89	124	0	0
Rhode Island	2,234	1,942	15.0%	0	0	2,234	1,942	0	0	0	0
Vermont	111	108	3.3%	0	0	111	108	0	0	0	0
Middle Atlantic	21,555	23,059	-6.5%	0	0	20,896	22,257	188	253	471	549
New Jersey	2,519	3,244	-22.0%	0	0	2,459	3,167	NM	76	0	0
New York	7,423	7,408	0.2%	0	0	7,423	7,408	0	0	0	0
Pennsylvania	11,613	12,407	-6.4%	0	0	11,014	11,681	NM	177	471	549
East North Central	28,514	29,061	-1.9%	4,426	4,421	23,798	24,302	164	212	127	126
Illinois	4,981	4,925	1.1%	1,191	1,179	3,789	3,747	0	0	0	0
Indiana	3,811	3,798	0.4%	3,234	3,242	577	555	0	0	0	0
Michigan	9,717	9,786	-0.7%	0	0	9,717	9,786	0	0	0	0
Ohio	5,122	5,561	-7.9%	0	0	5,122	5,561	0	0	0	0
Wisconsin	4,884	4,991	-2.2%	0	0	4,593	4,653	164	212	127	126
West North Central	4,482	4,297	4.3%	1,428	1,432	3,055	2,866	0	0	0	0
Iowa	1,246	1,116	12.0%	0	0	1,246	1,116	0	0	0	0
Kansas	709	685	3.4%	0	0	709	685	0	0	0	0
Minnesota	982	958	2.5%	309	307	674	651	0	0	0	0
Missouri	794	782	1.6%	368	369	426	413	0	0	0	0
Nebraska	751	756	-0.7%	751	756	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	23,463	23,384	0.3%	2,060	1,901	20,295	20,127	362	584	748	773
Delaware	519	506	2.6%	0	0	466	454	0	0	NM	52
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,707	4,542	3.6%	923	772	3,784	3,769	0	0	0	0
Georgia	3,091	3,360	-8.0%	0	0	3,031	3,291	0	0	60	69
Maryland	962	1,144	-16.0%	0	0	751	731	210	414	0	0
North Carolina	5,049	4,943	2.1%	0	0	4,984	4,862	NM	81	0	0
South Carolina	1,910	1,906	0.2%	1,110	1,093	166	161	0	0	635	652
Virginia	7,225	6,983	3.5%	27	36	7,112	6,859	NM	89	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,423	2,364	2.5%	1,016	998	1,407	1,367	0	0	0	0
Alabama	376	365	3.0%	0	0	376	365	0	0	0	0
Kentucky	1,114	1,095	1.7%	1,016	998	99	97	0	0	0	0
Mississippi	117	113	3.3%	0	0	117	113	0	0	0	0
Tennessee	816	791	3.2%	0	0	816	791	0	0	0	0
West South Central	5,195	5,577	-6.9%	0	0	5,195	5,388	0	189	0	0
Arkansas	533	518	3.1%	0	0	533	518	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	220	213	3.3%	0	0	220	213	0	0	0	0
Texas	4,442	4,847	-8.4%	0	0	4,442	4,658	0	189	0	0
Mountain	2,674	2,775	-3.6%	126	126	2,287	2,452	261	197	0	0
Arizona	424	410	3.3%	0	0	424	410	0	0	0	0
Colorado	480	464	3.4%	0	0	480	464	0	0	0	0
Idaho	262	250	4.7%	126	126	NM	NM	92	80	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	718	700	2.6%	0	0	718	700	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	737	896	-18.0%	0	0	568	779	168	117	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	25,122	23,250	8.1%	694	613	18,150	17,357	6,278	5,279	0	0
California	21,919	20,199	8.5%	95	NM	15,715	15,051	6,109	5,108	0	0
Oregon	2,650	2,514	5.4%	599	574	1,882	1,769	169	171	0	0
Washington	553	537	3.0%	0	0	553	537	0	0	0	0
Pacific Noncontiguous	383	327	17.0%	0	0	0	0	383	327	0	0
Alaska	383	327	17.0%	0	0	0	0	383	327	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	118,836	118,815	0.0%	9,749	9,490	100,019	100,712	7,723	7,165	1,345	1,447

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

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	259	268	-3.5%	0	0	250	257	8	11	0	0
Connecticut	103	98	5.2%	0	0	103	98	0	0	0	0
Maine	18	20	-9.8%	0	0	10	9	8	11	0	0
Massachusetts	127	140	-9.1%	0	0	127	140	0	0	0	0
New Hampshire	10	10	2.9%	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	415	432	-3.9%	0	0	331	341	84	91	0	0
New Jersey	101	107	-6.4%	0	0	75	78	26	30	0	0
New York	152	166	-8.3%	0	0	113	124	39	42	0	0
Pennsylvania	163	159	2.2%	0	0	143	140	20	19	0	0
East North Central	13	15	-8.9%	2	3	0	0	11	12	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	2	-11.0%	0	0	0	0	1	2	0	0
Michigan	10	10	-3.0%	0	0	0	0	10	10	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	2	3	-28.0%	2	3	0	0	0	0	0	0
West North Central	42	42	0.9%	23	22	19	20	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	42	42	0.9%	23	22	19	20	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	408	469	-13.0%	0	0	371	430	37	39	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	272	310	-12.0%	0	0	272	310	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	50	57	-13.0%	0	0	50	57	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	86	102	-15.0%	0	0	49	63	37	39	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	9.8%	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	9.8%	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	35	44	-21.0%	0	0	35	44	0	0	0	0
California	14	23	-39.0%	0	0	14	23	0	0	0	0
Oregon	7	7	-1.2%	0	0	7	7	0	0	0	0
Washington	14	14	-0.9%	0	0	14	14	0	0	0	0
Pacific Noncontiguous	38	38	0.0%	0	0	0	0	38	38	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	38	38	0.0%	0	0	0	0	38	38	0	0
U.S. Total	1,210	1,307	-7.5%	25	25	1,005	1,092	178	190	1	1

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	1,617	1,609	0.5%	0	0	1,557	1,535	60	75	0	0
Connecticut	575	560	2.6%	0	0	575	560	0	0	0	0
Maine	114	128	-11.0%	0	0	53	53	60	75	0	0
Massachusetts	873	864	1.0%	0	0	873	864	0	0	0	0
New Hampshire	57	58	-1.8%	0	0	57	58	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	2,494	2,445	2.0%	0	0	1,991	1,935	502	510	0	0
New Jersey	640	627	1.9%	0	0	475	465	165	163	0	0
New York	925	886	4.3%	0	0	696	654	229	232	0	0
Pennsylvania	929	931	-0.2%	0	0	820	816	109	115	0	0
East North Central	83	95	-13.0%	16	17	0	0	67	78	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	10	9	16.0%	0	0	0	0	10	9	0	0
Michigan	56	69	-18.0%	0	0	0	0	56	69	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	16	17	-6.5%	16	17	0	0	0	0	0	0
West North Central	229	226	1.2%	118	131	111	95	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	229	226	1.2%	118	131	111	95	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	2,554	2,607	-2.0%	0	0	2,345	2,390	209	218	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	1,750	1,729	1.2%	0	0	1,750	1,729	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	245	304	-19.0%	0	0	245	304	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	560	575	-2.6%	0	0	351	357	209	218	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	6	5	15.0%	0	0	0	0	0	0	6	5
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	6	5	15.0%	0	0	0	0	0	0	6	5
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	297	316	-5.8%	0	0	297	316	0	0	0	0
California	177	187	-5.1%	0	0	177	187	0	0	0	0
Oregon	45	54	-18.0%	0	0	45	54	0	0	0	0
Washington	75	75	1.0%	0	0	75	75	0	0	0	0
Pacific Noncontiguous	215	225	-4.6%	0	0	0	0	215	225	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	215	225	-4.6%	0	0	0	0	215	225	0	0
U.S. Total	7,494	7,529	-0.5%	134	148	6,302	6,270	1,053	1,105	6	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.

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

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

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	2,961	3,549	-17.0%	307	203	2,229	2,875	0	1	425	471
Connecticut	207	249	-17.0%	0	0	207	249	0	0	0	0
Maine	1,117	1,569	-29.0%	0	0	692	1,098	0	0	425	471
Massachusetts	NM	179	NM	0	0	NM	179	0	0	0	0
New Hampshire	987	1,341	-26.0%	0	189	987	1,151	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	489	212	131.0%	307	14	182	197	0	1	0	0
Middle Atlantic	647	737	-12.0%	0	0	449	486	0	0	199	251
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	500	574	-13.0%	0	0	449	486	0	0	52	88
Pennsylvania	147	163	-9.8%	0	0	0	0	0	0	147	163
East North Central	1,552	1,855	-16.0%	270	328	735	949	0	0	547	579
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,005	1,203	-16.0%	0	0	725	938	0	0	280	266
Ohio	97	90	8.3%	0	0	10	11	0	0	87	79
Wisconsin	450	562	-20.0%	270	328	0	0	0	0	180	235
West North Central	468	507	-7.7%	52	80	112	122	39	16	264	289
Iowa	6	6	14.0%	0	0	0	0	6	6	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	434	491	-12.0%	52	80	112	122	6	1	264	289
Missouri	27	10	176.0%	0	0	0	0	27	10	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	9,607	10,477	-8.3%	1,440	2,255	3,091	2,846	14	14	5,062	5,362
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	1,451	1,745	-17.0%	566	800	NM	163	0	0	729	781
Georgia	3,687	3,189	16.0%	0	0	1,614	1,052	0	0	2,073	2,137
Maryland	14	14	3.5%	0	0	0	0	14	14	0	0
North Carolina	976	1,438	-32.0%	0	0	439	858	0	0	537	580
South Carolina	1,259	1,406	-10.0%	0	133	630	473	0	0	629	800
Virginia	2,219	2,685	-17.0%	874	1,322	251	299	0	0	1,094	1,064
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,841	3,001	-5.3%	0	0	0	125	0	0	2,841	2,876
Alabama	1,899	1,963	-3.3%	0	0	0	125	0	0	1,899	1,839
Kentucky	123	155	-21.0%	0	0	0	0	0	0	123	155
Mississippi	564	578	-2.5%	0	0	0	0	0	0	564	578
Tennessee	256	304	-16.0%	0	0	0	0	0	0	256	304
West South Central	1,788	2,045	-13.0%	0	0	0	0	0	0	1,788	2,045
Arkansas	352	581	-39.0%	0	0	0	0	0	0	352	581
Louisiana	929	985	-5.7%	0	0	0	0	0	0	929	985
Oklahoma	163	130	25.0%	0	0	0	0	0	0	163	130
Texas	345	348	-1.1%	0	0	0	0	0	0	345	348
Mountain	491	555	-12.0%	0	0	376	399	0	0	115	157
Arizona	251	268	-6.3%	0	0	251	268	0	0	0	0
Colorado	95	102	-6.5%	0	0	95	102	0	0	0	0
Idaho	126	162	-22.0%	0	0	30	29	0	0	96	133
Montana	19	23	-18.0%	0	0	0	0	0	0	19	23
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	4,970	5,742	-13.0%	381	420	3,115	3,428	0	0	1,474	1,894
California	3,434	3,996	-14.0%	0	0	2,918	3,192	0	0	516	804
Oregon	565	698	-19.0%	0	0	197	236	0	0	368	462
Washington	971	1,048	-7.3%	381	420	0	0	0	0	590	628
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	25,326	28,468	-11.0%	2,450	3,285	10,106	11,228	54	31	12,716	13,923

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

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

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

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	18,450	23,995	-23.0%	1,937	3,412	13,814	17,878	4	5	2,695	2,700
Connecticut	1,288	1,560	-17.0%	0	0	1,288	1,560	0	0	0	0
Maine	7,157	9,671	-26.0%	0	0	4,462	6,971	0	0	2,695	2,700
Massachusetts	963	1,057	-8.9%	0	0	963	1,057	0	0	0	0
New Hampshire	6,422	9,150	-30.0%	388	2,036	6,035	7,114	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	2,620	2,557	2.4%	1,550	1,376	1,066	1,176	4	5	0	0
Middle Atlantic	4,304	4,320	-0.4%	0	0	2,794	2,715	0	0	1,510	1,605
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	3,196	3,173	0.7%	0	0	2,794	2,715	0	0	402	458
Pennsylvania	1,108	1,147	-3.4%	0	0	0	0	0	0	1,108	1,147
East North Central	9,975	11,686	-15.0%	1,735	2,107	4,778	5,988	0	0	3,463	3,591
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	6,364	7,698	-17.0%	0	0	4,735	5,921	0	0	1,629	1,777
Ohio	604	540	12.0%	0	0	43	67	0	0	561	473
Wisconsin	3,007	3,448	-13.0%	1,735	2,107	0	0	0	0	1,273	1,341
West North Central	2,609	2,840	-8.1%	393	515	704	705	136	179	1,376	1,441
Iowa	27	32	-13.0%	0	0	0	0	27	32	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	2,479	2,709	-8.5%	393	515	704	705	6	48	1,376	1,441
Missouri	103	100	2.6%	0	0	0	0	103	100	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	60,298	61,058	-1.2%	10,350	13,833	18,206	15,363	71	69	31,671	31,794
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	8,481	10,199	-17.0%	3,168	4,379	898	1,398	0	0	4,415	4,422
Georgia	21,543	17,281	25.0%	0	0	8,787	4,760	0	0	12,757	12,521
Maryland	71	326	-78.0%	0	0	0	0	71	69	0	257
North Carolina	7,162	7,632	-6.2%	0	0	3,820	4,412	0	0	3,343	3,220
South Carolina	8,146	8,592	-5.2%	494	939	3,147	2,925	0	0	4,505	4,729
Virginia	14,895	17,027	-13.0%	6,688	8,515	1,555	1,868	0	0	6,652	6,645
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	17,711	17,628	0.5%	0	0	0	748	0	0	17,711	16,880
Alabama	11,658	11,662	0.0%	0	0	0	748	0	0	11,658	10,914
Kentucky	800	775	3.2%	0	0	0	0	0	0	800	775
Mississippi	3,305	3,088	7.0%	0	0	0	0	0	0	3,305	3,088
Tennessee	1,948	2,102	-7.3%	0	0	0	0	0	0	1,948	2,102
West South Central	11,261	13,071	-14.0%	0	0	194	295	0	0	11,067	12,777
Arkansas	2,254	3,466	-35.0%	0	0	0	0	0	0	2,254	3,466
Louisiana	5,753	6,329	-9.1%	0	0	0	0	0	0	5,753	6,329
Oklahoma	922	818	13.0%	0	0	0	0	0	0	922	818
Texas	2,331	2,458	-5.1%	0	0	194	295	0	0	2,138	2,163
Mountain	3,173	3,263	-2.7%	0	0	2,246	2,343	0	0	927	920
Arizona	1,457	1,590	-8.3%	0	0	1,457	1,590	0	0	0	0
Colorado	634	606	4.7%	0	0	634	606	0	0	0	0
Idaho	957	950	0.8%	0	0	154	147	0	0	803	803
Montana	124	117	6.3%	0	0	0	0	0	0	124	117
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	31,340	33,353	-6.0%	2,252	2,528	18,753	20,388	0	0	10,335	10,438
California	21,648	23,275	-7.0%	0	0	17,528	18,910	0	0	4,121	4,365
Oregon	3,616	3,748	-3.5%	0	0	1,226	1,478	0	0	2,390	2,270
Washington	6,076	6,331	-4.0%	2,252	2,528	0	0	0	0	3,824	3,803
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	159,121	171,215	-7.1%	16,667	22,394	61,489	66,422	211	254	80,755	82,145

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.

Chapter 3

Fossil-Fuel Stocks for Electricity Generation

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

Period	Electric Power Sector			Electric Utilities			Independent Power Producers		
	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
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
May	154,340	25,760	525	124,071	16,522	514	30,269	9,238	11
June	150,728	25,839	476	120,815	16,436	467	29,913	9,404	9

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, June 2020 and 2019**

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	June 2020	June 2019	Percentage Change	June 2020	June 2019	Percentage Change	June 2020	June 2019	Percentage Change
New England	W	W	W	3,659	3,401	7.6%	0	0	--
Connecticut	W	W	W	1,280	1,194	7.2%	0	0	--
Maine	0	0	--	325	282	15.3%	0	0	--
Massachusetts	0	W	W	1,436	1,329	8.1%	0	0	--
New Hampshire	W	W	W	390	359	8.7%	0	0	--
Rhode Island	0	0	--	205	197	4.2%	0	0	--
Vermont	0	0	--	23	41	-42.8%	0	0	--
Middle Atlantic	3,682	4,673	-21.2%	5,042	5,192	-2.9%	0	0	--
New Jersey	W	W	W	700	646	8.3%	0	0	--
New York	0	W	W	3,041	3,218	-5.5%	0	0	--
Pennsylvania	W	4,491	W	1,301	1,327	-2.0%	0	0	--
East North Central	33,770	24,524	37.7%	1,040	1,047	-0.6%	W	91	W
Illinois	6,869	5,593	22.8%	67	73	-8.2%	0	0	--
Indiana	11,372	6,994	62.6%	125	73	71.4%	0	W	W
Michigan	4,540	3,669	23.8%	252	273	-7.7%	W	W	W
Ohio	7,602	4,769	59.4%	434	435	-0.2%	0	0	--
Wisconsin	3,386	3,500	-3.2%	162	192	-16.0%	W	W	W
West North Central	27,765	19,494	42.4%	738	830	-11.0%	0	0	--
Iowa	7,543	3,388	122.6%	83	128	-35.5%	0	0	--
Kansas	3,551	3,511	1.1%	117	115	1.6%	0	0	--
Minnesota	3,567	3,161	12.9%	71	92	-23.1%	0	0	--
Missouri	8,420	5,749	46.5%	323	331	-2.6%	0	0	--
Nebraska	2,987	2,483	20.3%	67	93	-28.1%	0	0	--
North Dakota	W	W	W	37	27	40.5%	0	0	--
South Dakota	W	W	W	41	43	-6.1%	0	0	--
South Atlantic	25,182	22,895	10.0%	11,360	10,928	3.9%	W	W	W
Delaware	W	W	W	662	576	14.9%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	2,829	3,367	-16.0%	4,002	3,991	0.3%	W	W	W
Georgia	6,212	4,179	48.6%	1,042	862	20.9%	0	0	--
Maryland	1,750	1,896	-7.7%	698	696	0.3%	0	0	--
North Carolina	4,467	4,435	0.7%	1,443	1,280	12.7%	0	0	--
South Carolina	2,623	2,503	4.8%	805	760	5.9%	0	0	--
Virginia	W	W	W	2,556	2,613	-2.2%	0	0	--
West Virginia	6,042	5,235	15.4%	152	150	1.3%	0	W	W
East South Central	12,804	11,286	13.5%	1,071	1,218	-12.0%	0	0	--
Alabama	3,162	W	W	212	209	1.3%	0	0	--
Kentucky	6,380	5,847	9.1%	227	229	-0.7%	0	0	--
Mississippi	W	W	W	6	37	-83.1%	0	0	--
Tennessee	W	2,933	W	626	744	-15.7%	0	0	--
West South Central	24,994	15,170	64.8%	1,238	1,407	-12.0%	W	W	W
Arkansas	4,765	3,111	53.2%	184	172	7.2%	0	0	--
Louisiana	3,557	2,468	44.1%	167	229	-27.0%	W	W	W
Oklahoma	3,139	2,542	23.5%	116	97	18.9%	0	0	--
Texas	13,533	7,049	92.0%	771	909	-15.2%	0	0	--
Mountain	19,994	17,139	16.7%	374	377	-0.9%	W	W	W
Arizona	3,871	3,647	6.1%	121	141	-14.7%	0	0	--
Colorado	3,885	4,229	-8.1%	115	119	-3.0%	0	0	--
Idaho	0	0	--	0	0	-44.8%	0	0	--
Montana	W	W	W	14	15	-11.5%	W	W	W
Nevada	W	W	W	3	4	-11.2%	0	0	--
New Mexico	W	W	W	17	21	-16.2%	0	0	--
Utah	4,471	2,957	51.2%	53	47	11.9%	0	0	--
Wyoming	5,584	3,948	41.4%	50	29	71.7%	0	0	--
Pacific Contiguous	W	W	W	338	356	-5.1%	0	0	--
California	0	0	--	172	176	-2.5%	0	0	--
Oregon	W	W	W	72	80	-9.6%	0	0	--
Washington	W	W	W	94	100	-6.1%	0	0	--
Pacific Noncontiguous	W	W	W	978	1,461	-33.1%	0	0	--
Alaska	0	0	--	51	114	-55.6%	0	0	--
Hawaii	W	W	W	927	1,347	-31.2%	0	0	--
U.S. Total	150,728	117,710	28.0%	25,839	26,217	-1.4%	476	389	22.4%

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.

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 Division, June 2020 and 2019**

Census Division	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019
Coal (Thousand Tons)							
New England	W	W	W	W	W	W	W
Middle Atlantic	3,682	4,673	-21.2%	W	0	W	4,673
East North Central	33,770	24,524	37.7%	20,601	15,367	13,170	9,157
West North Central	27,765	19,494	42.4%	27,765	19,494	0	0
South Atlantic	25,182	22,895	10.0%	22,601	19,735	2,580	3,160
East South Central	12,804	11,286	13.5%	12,804	11,286	0	0
West South Central	24,994	15,170	64.8%	16,768	11,397	8,226	3,773
Mountain	19,994	17,139	16.7%	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	150,728	117,710	28.0%	120,815	94,364	29,913	23,346
Petroleum Liquids (Thousand Barrels)							
New England	3,659	3,401	7.6%	498	498	3,161	2,903
Middle Atlantic	5,042	5,192	-2.9%	2,007	2,047	3,035	3,145
East North Central	1,040	1,047	-0.6%	695	681	345	366
West North Central	738	830	-11.0%	717	804	22	26
South Atlantic	11,360	10,928	3.9%	8,984	8,735	2,377	2,193
East South Central	1,071	1,218	-12.0%	979	1,127	92	91
West South Central	1,238	1,407	-12.0%	1,019	1,067	219	340
Mountain	374	377	-0.9%	345	348	28	29
Pacific Contiguous	338	356	-5.1%	256	275	82	82
Pacific Noncontiguous	978	1,461	-33.1%	935	1,433	43	28
U.S. Total	25,839	26,217	-1.4%	16,436	17,016	9,404	9,202
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	W	91	W	W	91	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	476	389	22.4%	467	382	9	7

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 - June 2020
(Thousand Tons)**

Period	Electric Power Sector			Total
	Bituminous Coal	Subbituminous Coal	Lignite Coal	
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
May	61,513	88,352	4,117	154,340
June	59,319	86,944	4,139	150,728

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 - June 2020

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)		
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
May	536,562	28,899	1.90	35.23	1.15	104.6	6,466	1,090	6.57	38.96	0.50	78.4
June	621,590	32,837	1.91	36.14	1.29	87.6	6,759	1,123	7.24	43.61	0.48	66.9
Year to Date												
2018	5,388,357	281,628	2.05	39.29	1.32	92.0	81,838	13,610	13.94	83.95	0.42	70.7
2019	5,297,648	274,311	2.07	39.97	1.37	101.9	45,090	7,466	13.75	83.07	0.48	65.7
2020	3,888,372	206,232	1.92	36.24	1.26	108.5	36,076	6,022	9.92	59.43	0.50	65.8
Rolling 12 Months Ending in June												
2019	11,280,408	588,898	2.07	39.56	1.33	96.0	97,321	16,146	14.50	87.36	0.45	69.2
2020	9,259,312	486,943	1.95	37.12	1.26	103.2	77,369	12,875	11.77	70.76	0.50	62.8

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

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Percentage of Consumption	Average Cost
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)		(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
May	5,495	195	1.61	45.35	5.30	62.5	835,885	810,417	2.17	2.24	85.3	2.08
June	5,648	199	1.46	41.45	6.01	49.4	1,015,633	986,138	2.01	2.07	84.5	1.99
Year to Date												
2018	40,908	1,450	2.52	70.96	5.72	65.2	5,044,573	4,884,400	3.52	3.63	89.8	2.81
2019	25,189	881	2.29	65.47	5.69	43.6	5,003,098	4,844,161	3.21	3.32	84.9	2.65
2020	36,569	1,286	1.48	41.95	5.39	68.5	5,323,168	5,150,290	2.24	2.32	84.8	2.13
Rolling 12 Months Ending in June												
2019	69,402	2,441	2.46	69.96	5.73	56.1	11,202,683	10,845,525	3.41	3.52	88.1	2.76
2020	67,675	2,375	1.53	43.71	5.38	67.3	11,469,614	11,092,601	2.45	2.53	84.3	2.25

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W = Withheld to avoid disclosure of individual company data.

Notes:

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

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

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

- Values for 2018 and prior years are final. Values for 2019 and 2020 are preliminary.

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

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

- See the Technical Notes for fuel conversion factors.

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

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

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

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)		
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
May	400,318	21,157	1.93	36.48	1.08	106.4	4,012	671	6.76	40.39	0.48	69.7
June	464,257	24,345	1.96	37.30	1.13	87.5	4,152	685	6.62	40.13	0.47	58.8
Year to Date												
2018	3,966,229	206,458	2.10	40.28	1.19	92.4	49,205	8,149	13.92	84.08	0.37	76.6
2019	3,899,740	201,363	2.14	41.37	1.22	102.9	34,259	5,643	13.63	82.77	0.45	77.5
2020	2,899,595	152,389	1.96	37.30	1.13	110.8	26,053	4,324	10.13	61.07	0.47	66.9
Rolling 12 Months Ending in June												
2019	8,284,547	430,868	2.12	40.86	1.19	96.2	69,104	11,390	14.35	87.07	0.41	75.5
2020	6,919,099	361,836	2.00	38.25	1.14	105.5	57,183	9,448	11.74	71.06	0.47	66.7

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Notes:

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

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

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

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- 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 - June 2020 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Percentage of Consumption	Average Cost
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)		(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
May	5,495	195	1.61	45.35	5.30	104.2	425,641	412,855	2.43	2.51	89.5	2.21
June	5,648	199	1.46	41.45	6.01	77.0	504,731	490,892	2.26	2.32	87.2	2.13
Year to Date												
2018	40,908	1,450	2.52	70.96	5.72	108.5	2,536,862	2,457,646	3.70	3.82	96.1	2.80
2019	25,189	881	2.29	65.47	5.69	76.0	2,446,496	2,369,856	3.38	3.49	89.2	2.67
2020	36,569	1,286	1.48	41.95	5.39	108.0	2,640,740	2,556,968	2.48	2.57	88.6	2.24
Rolling 12 Months Ending in June												
2019	67,491	2,370	2.48	70.63	5.73	92.0	5,463,193	5,291,669	3.54	3.65	93.0	2.74
2020	65,647	2,302	1.53	43.61	5.36	108.8	5,630,445	5,449,910	2.65	2.74	87.4	2.33

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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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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2010 - June 2020

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)		
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
May	126,481	7,262	1.76	30.61	1.37	104.3	2,325	398	6.16	36.02	0.50	152.5
June	147,445	8,001	1.73	31.85	1.80	89.7	2,512	422	8.21	48.86	0.48	126.6
Year to Date												
2018	1,333,853	70,932	1.89	35.62	1.71	93.2	31,395	5,262	14.03	83.89	0.45	75.3
2019	1,321,444	69,249	1.84	35.20	1.82	102.3	9,906	1,672	14.21	84.21	0.50	63.7
2020	922,496	50,608	1.76	32.10	1.67	107.1	9,141	1,554	9.18	54.03	0.51	90.5
Rolling 12 Months Ending in June												
2019	2,836,654	150,332	1.86	35.21	1.75	98.3	26,210	4,431	14.94	88.24	0.45	81.3
2020	2,202,665	118,407	1.77	32.86	1.66	100.3	18,546	3,159	11.86	69.63	0.51	76.1

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Notes:

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

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

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

- 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 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2010 - June 2020 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
	(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
May	0	0	--	--	--	0.0	345,359	334,474	1.80	1.87	90.1	1.81
June	0	0	--	--	--	0.0	445,819	431,962	1.70	1.75	89.3	1.74
Year to Date												
2018	0	0	--	--	--	0.0	2,121,600	2,051,877	3.33	3.45	94.2	2.80
2019	0	0	--	--	--	0.0	2,157,747	2,087,012	3.01	3.11	90.0	2.55
2020	0	0	--	--	--	0.0	2,285,049	2,207,367	1.94	2.01	90.1	1.91
Rolling 12 Months Ending in June												
2019	0	0	--	--	--	0.0	4,925,360	4,762,827	3.25	3.36	92.7	2.72
2020	0	0	--	--	--	0.0	5,035,219	4,862,434	2.20	2.28	89.5	2.08

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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.

- Values for 2018 and prior years are final. Values for 2019 and 2020 are preliminary.

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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: Commercial Sector, 2010 - June 2020

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)		
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
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Year to Date												
2018	130	6	2.92	66.44	3.13	1.8	0	0	--	--	--	0.0
2019	117	5	2.90	65.75	2.96	1.9	0	0	--	--	--	0.0
2020	84	4	2.96	67.52	2.95	1.6	0	0	--	--	--	0.0
Rolling 12 Months Ending in June												
2019	277	12	2.93	66.23	2.96	2.3	0	0	--	--	--	0.0
2020	160	7	2.96	67.66	3.02	1.5	0	0	--	--	--	0.0

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

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

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2010 - June 2020 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
	(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
May	0	0	--	--	--	0.0	657	631	3.09	3.22	6.5	3.09
June	0	0	--	--	--	0.0	626	599	3.09	3.23	5.8	3.09
Year to Date												
2018	0	0	--	--	--	0.0	4,499	4,374	3.58	3.68	6.8	3.56
2019	0	0	--	--	--	0.0	4,782	4,613	3.32	3.44	7.0	3.31
2020	0	0	--	--	--	0.0	4,182	4,016	3.10	3.22	6.3	3.09
Rolling 12 Months Ending in June												
2019	0	0	--	--	--	0.0	9,372	9,063	3.36	3.47	6.7	3.34
2020	0	0	--	--	--	0.0	8,829	8,489	3.16	3.28	6.4	3.15

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

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Notes:

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

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

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

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- See the Technical Notes for fuel conversion factors.

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

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

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

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)		
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
May	9,763	480	2.46	50.12	1.15	63.7	129	21	7.84	48.89	0.84	16.8
June	9,888	491	2.39	48.11	1.21	69.7	95	16	8.89	53.81	1.06	11.1
Year to Date												
2018	88,145	4,232	2.49	51.93	1.28	66.3	1,238	198	12.80	79.93	1.31	15.5
2019	76,346	3,694	2.57	53.14	1.19	64.2	925	151	13.31	81.60	1.49	13.6
2020	66,197	3,231	2.49	51.12	1.18	63.8	882	144	11.04	67.72	1.19	19.2
Rolling 12 Months Ending in June												
2019	158,931	7,685	2.51	51.91	1.26	66.2	2,007	324	13.80	85.33	1.44	14.9
2020	137,388	6,694	2.52	51.62	1.18	63.4	1,641	268	11.97	73.34	1.33	16.2

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Notes:

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

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

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

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2010 - June 2020 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Percentage of Consumption	Average Cost
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)		(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
May	0	0	--	--	--	0.0	64,228	62,457	1.97	2.02	58.1	2.04
June	0	0	--	--	--	0.0	64,457	62,685	1.83	1.88	57.1	1.91
Year to Date												
2018	0	0	--	--	--	0.0	381,612	370,503	3.16	3.25	58.4	3.06
2019	0	0	--	--	--	0.0	394,073	382,680	3.11	3.20	57.8	3.04
2020	0	0	--	--	--	0.0	393,196	381,940	2.03	2.09	56.7	2.12
Rolling 12 Months Ending in June												
2019	1,911	71	1.75	47.47	5.74	7.4	804,758	781,966	3.37	3.46	58.3	3.25
2020	2,028	73	1.70	47.00	5.82	8.9	795,121	771,768	2.29	2.36	56.8	2.34

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	3	3	9.7%	0	0	3	3	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	3	3	9.7%	0	0	3	3	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	668	1,430	-53.0%	0	0	668	1,430	0	0	0	0
New Jersey	62	56	11.0%	0	0	62	56	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	606	1,373	-56.0%	0	0	606	1,373	0	0	0	0
East North Central	6,959	9,590	-27.0%	4,094	5,368	2,716	4,076	0	0	148	146
Illinois	1,780	2,627	-32.0%	350	394	1,282	2,087	0	0	148	146
Indiana	1,641	2,060	-20.0%	1,476	1,900	166	161	0	0	0	0
Michigan	1,134	2,170	-48.0%	1,095	2,157	39	13	0	0	0	0
Ohio	1,391	2,026	-31.0%	161	211	1,230	1,815	0	0	0	0
Wisconsin	1,013	707	43.0%	1,013	707	0	0	0	0	0	0
West North Central	7,397	8,523	-13.0%	7,164	8,264	0	0	0	0	233	259
Iowa	960	1,534	-37.0%	775	1,338	0	0	0	0	185	195
Kansas	1,107	980	13.0%	1,107	980	0	0	0	0	0	0
Minnesota	424	879	-52.0%	424	879	0	0	0	0	0	0
Missouri	2,378	2,155	10.0%	2,378	2,155	0	0	0	0	0	0
Nebraska	950	1,170	-19.0%	902	1,107	0	0	0	0	48	63
North Dakota	1,534	1,649	-7.0%	1,534	1,649	0	0	0	0	0	0
South Dakota	43	156	-73.0%	43	156	0	0	0	0	0	0
South Atlantic	3,282	6,842	-52.0%	2,793	6,173	462	613	0	0	26	56
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	359	873	-59.0%	359	873	0	0	0	0	0	0
Georgia	319	1,181	-73.0%	309	1,171	0	0	0	0	10	10
Maryland	64	166	-62.0%	0	0	64	166	0	0	0	0
North Carolina	360	1,176	-69.0%	332	1,156	13	2	0	0	15	18
South Carolina	210	632	-67.0%	192	628	18	0	0	0	0	3
Virginia	62	227	-73.0%	61	174	0	29	0	0	1	24
West Virginia	1,909	2,587	-26.0%	1,542	2,171	368	417	0	0	0	0
East South Central	3,012	4,552	-34.0%	2,735	4,227	241	266	0	0	36	58
Alabama	908	1,198	-24.0%	908	1,198	0	0	0	0	0	0
Kentucky	1,587	2,418	-34.0%	1,587	2,418	0	0	0	0	0	0
Mississippi	298	358	-17.0%	57	92	241	266	0	0	0	0
Tennessee	219	577	-62.0%	183	519	0	0	0	0	36	58
West South Central	6,349	7,371	-14.0%	2,882	3,759	3,464	3,608	0	0	3	5
Arkansas	832	1,056	-21.0%	630	920	198	131	0	0	3	5
Louisiana	356	398	-11.0%	208	348	148	49	0	0	0	0
Oklahoma	379	459	-17.0%	379	330	0	129	0	0	0	0
Texas	4,782	5,459	-12.0%	1,664	2,160	3,118	3,299	0	0	0	0
Mountain	4,968	5,997	-17.0%	4,654	5,344	314	653	0	0	0	0
Arizona	609	1,112	-45.0%	609	1,112	0	0	0	0	0	0
Colorado	812	1,104	-26.0%	812	1,104	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	220	530	-59.0%	18	23	202	507	0	0	0	0
Nevada	66	183	-64.0%	36	121	30	62	0	0	0	0
New Mexico	672	726	-7.5%	672	726	0	0	0	0	0	0
Utah	1,059	932	14.0%	1,022	894	37	38	0	0	0	0
Wyoming	1,530	1,410	8.5%	1,485	1,364	45	46	0	0	0	0
Pacific Contiguous	118	549	-79.0%	0	123	74	382	0	0	44	43
California	44	43	0.9%	0	0	0	0	0	0	44	43
Oregon	0	123	-100.0%	0	123	0	0	0	0	0	0
Washington	74	382	-81.0%	0	0	74	382	0	0	0	0
Pacific Noncontiguous	82	88	-6.3%	23	27	59	60	0	0	0	0
Alaska	23	27	-16.0%	23	27	0	0	0	0	0	0
Hawaii	59	60	-2.2%	0	0	59	60	0	0	0	0
U.S. Total	32,837	44,942	-27.0%	24,345	33,285	8,001	11,090	0	0	491	567

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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) June 2020 and 2019
(Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	101	84	20.0%	72	49	29	36	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	29	36	-19.0%	0	0	29	36	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	72	49	49.0%	72	49	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	4,627	10,070	-54.0%	37	0	4,558	10,037	0	0	32	32
New Jersey	234	301	-22.0%	0	0	234	301	0	0	0	0
New York	0	69	-100.0%	0	0	0	69	0	0	0	0
Pennsylvania	4,394	9,699	-55.0%	37	0	4,325	9,667	0	0	32	32
East North Central	42,894	62,065	-31.0%	24,191	35,618	17,778	25,535	0	0	926	912
Illinois	12,198	18,333	-33.0%	2,151	3,488	9,135	13,961	0	0	912	884
Indiana	10,879	14,813	-27.0%	9,658	13,782	1,221	1,031	0	0	0	0
Michigan	5,578	9,947	-44.0%	5,474	9,871	104	76	0	0	0	0
Ohio	8,276	11,748	-30.0%	959	1,281	7,317	10,468	0	0	0	0
Wisconsin	5,962	7,224	-17.0%	5,949	7,196	0	0	0	0	13	28
West North Central	46,644	49,737	-6.2%	45,242	48,177	0	0	4	5	1,398	1,554
Iowa	7,167	7,434	-3.6%	6,137	6,334	0	0	0	0	1,030	1,100
Kansas	5,048	5,419	-6.8%	5,048	5,419	0	0	0	0	0	0
Minnesota	3,035	5,820	-48.0%	3,035	5,752	0	0	0	0	0	68
Missouri	14,706	13,779	6.7%	14,703	13,774	0	0	4	5	0	0
Nebraska	6,067	6,141	-1.2%	5,699	5,756	0	0	0	0	368	386
North Dakota	10,148	10,307	-1.5%	10,148	10,307	0	0	0	0	0	0
South Dakota	473	836	-43.0%	473	836	0	0	0	0	0	0
South Atlantic	21,822	39,081	-44.0%	19,690	34,734	1,878	3,920	0	0	255	427
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	2,758	4,676	-41.0%	2,746	4,652	0	0	0	0	11	23
Georgia	2,927	7,522	-61.0%	2,884	7,451	0	0	0	0	43	71
Maryland	567	1,493	-62.0%	0	0	567	1,401	0	0	0	92
North Carolina	3,604	6,356	-43.0%	3,458	6,236	34	21	0	0	112	99
South Carolina	2,442	4,169	-41.0%	2,403	4,158	35	0	0	0	3	11
Virginia	600	1,441	-58.0%	514	1,137	0	175	0	0	86	130
West Virginia	8,926	13,352	-33.0%	7,684	11,100	1,242	2,252	0	0	0	0
East South Central	19,295	26,976	-28.0%	17,474	25,159	1,548	1,498	0	0	273	319
Alabama	5,170	6,629	-22.0%	5,170	6,629	0	0	0	0	0	0
Kentucky	10,342	15,184	-32.0%	10,342	15,184	0	0	0	0	0	0
Mississippi	1,879	2,192	-14.0%	331	695	1,548	1,498	0	0	0	0
Tennessee	1,904	2,971	-36.0%	1,630	2,652	0	0	0	0	273	319
West South Central	36,184	44,586	-19.0%	16,380	23,505	19,749	20,972	0	0	55	110
Arkansas	4,924	6,593	-25.0%	3,761	5,509	1,138	1,049	0	0	25	35
Louisiana	2,027	3,065	-34.0%	1,502	2,348	525	718	0	0	0	0
Oklahoma	1,336	2,599	-49.0%	1,242	2,382	63	143	0	0	30	75
Texas	27,897	32,329	-14.0%	9,875	13,266	18,023	19,063	0	0	0	0
Mountain	31,870	37,812	-16.0%	28,607	33,228	3,263	4,583	0	0	0	0
Arizona	3,723	7,150	-48.0%	3,723	7,150	0	0	0	0	0	0
Colorado	5,919	7,053	-16.0%	5,919	7,053	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2,708	3,956	-32.0%	111	136	2,598	3,820	0	0	0	0
Nevada	576	936	-38.0%	290	638	286	298	0	0	0	0
New Mexico	3,459	3,907	-11.0%	3,459	3,907	0	0	0	0	0	0
Utah	6,128	5,199	18.0%	6,003	4,990	125	208	0	0	0	0
Wyoming	9,356	9,610	-2.6%	9,102	9,354	254	257	0	0	0	0
Pacific Contiguous	2,265	3,381	-33.0%	525	735	1,448	2,307	0	0	292	339
California	292	339	-14.0%	0	0	0	0	0	0	292	339
Oregon	525	735	-29.0%	525	735	0	0	0	0	0	0
Washington	1,448	2,307	-37.0%	0	0	1,448	2,307	0	0	0	0
Pacific Noncontiguous	529	519	2.0%	171	158	358	361	0	0	0	0
Alaska	171	158	8.3%	171	158	0	0	0	0	0	0
Hawaii	358	361	-0.8%	0	0	358	361	0	0	0	0
U.S. Total	206,232	274,311	-25.0%	152,389	201,363	50,608	69,249	4	5	3,231	3,694

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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, June 2020 and 2019
(Thousand Barrels)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	184	2	NM	0	1	184	1	0	0	0	0
Connecticut	43	0	--	0	0	43	0	0	0	0	0
Maine	129	1	NM	0	0	129	1	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	12	1	NM	0	1	12	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	53	19	181.0%	0	0	50	15	0	0	3	4
New Jersey	30	0	NM	0	0	30	0	0	0	0	0
New York	4	2	67.0%	0	0	4	2	0	0	0	0
Pennsylvania	19	16	14.0%	0	0	16	12	0	0	3	4
East North Central	28	80	-65.0%	17	49	10	27	0	0	1	4
Illinois	6	6	0.6%	1	1	5	6	0	0	0	0
Indiana	12	22	-46.0%	12	22	0	0	0	0	0	0
Michigan	2	15	-87.0%	2	13	0	0	0	0	0	2
Ohio	7	34	-80.0%	1	10	4	22	0	0	1	2
Wisconsin	1	2	-42.0%	1	2	0	0	0	0	0	0
West North Central	43	56	-24.0%	43	56	0	0	0	0	0	0
Iowa	14	20	-28.0%	14	20	0	0	0	0	0	0
Kansas	7	9	-24.0%	7	9	0	0	0	0	0	0
Minnesota	3	4	-17.0%	3	4	0	0	0	0	0	0
Missouri	12	17	-27.0%	12	17	0	0	0	0	0	0
Nebraska	1	1	-51.0%	1	1	0	0	0	0	0	0
North Dakota	6	6	-2.1%	6	6	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	120	143	-16.0%	91	97	17	33	0	0	11	13
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	41	36	14.0%	38	35	0	0	0	0	4	1
Georgia	13	16	-17.0%	12	7	0	0	0	0	1	9
Maryland	17	32	-47.0%	0	0	17	32	0	0	0	0
North Carolina	18	20	-10.0%	13	19	0	0	0	0	5	2
South Carolina	12	14	-15.0%	12	13	0	0	0	0	0	1
Virginia	4	5	-12.0%	2	4	0	0	0	0	2	0
West Virginia	14	20	-30.0%	14	20	0	0	0	0	0	0
East South Central	26	16	56.0%	25	16	0	0	0	0	0	0
Alabama	2	1	157.0%	2	1	0	0	0	0	0	0
Kentucky	17	5	236.0%	17	5	0	0	0	0	0	0
Mississippi	3	2	38.0%	3	2	0	0	0	0	0	0
Tennessee	3	8	-60.0%	3	8	0	0	0	0	0	0
West South Central	15	16	-2.7%	11	16	4	0	0	0	0	0
Arkansas	2	5	-55.0%	0	5	2	0	0	0	0	0
Louisiana	0	1	-100.0%	0	1	0	0	0	0	0	0
Oklahoma	2	2	17.0%	2	2	0	0	0	0	0	0
Texas	10	7	52.0%	9	7	1	0	0	0	0	0
Mountain	24	50	-53.0%	23	48	1	3	0	0	0	0
Arizona	2	11	-83.0%	2	11	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	3	-82.0%	0	0	0	3	0	0	0	0
Nevada	2	3	-33.0%	2	3	0	0	0	0	0	0
New Mexico	5	4	25.0%	5	4	0	0	0	0	0	0
Utah	6	21	-71.0%	6	21	0	0	0	0	0	0
Wyoming	8	8	-8.5%	8	8	0	0	0	0	0	0
Pacific Contiguous	0	3	-100.0%	0	0	0	3	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	3	-100.0%	0	0	0	3	0	0	0	0
Pacific Noncontiguous	631	734	-14.0%	475	566	156	169	0	0	0	0
Alaska	2	2	-24.0%	2	2	0	0	0	0	0	0
Hawaii	629	732	-14.0%	473	563	156	169	0	0	0	0
U.S. Total	1,123	1,120	0.3%	685	848	422	250	0	0	16	21

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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) June 2020 and 2019
(Thousand Barrels)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	362	191	89.0%	7	8	355	183	0	0	0	0
Connecticut	98	6	NM	0	0	98	6	0	0	0	0
Maine	149	127	17.0%	0	0	149	127	0	0	0	0
Massachusetts	102	51	102.0%	5	0	97	51	0	0	0	0
New Hampshire	14	8	64.0%	2	8	12	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	213	681	-69.0%	15	345	165	303	0	0	33	34
New Jersey	67	22	203.0%	0	0	67	22	0	0	0	0
New York	25	429	-94.0%	15	345	10	85	0	0	0	0
Pennsylvania	121	229	-47.0%	0	0	89	196	0	0	33	34
East North Central	389	483	-19.0%	247	269	133	192	0	0	9	22
Illinois	26	48	-46.0%	1	2	24	46	0	0	0	0
Indiana	149	108	38.0%	149	108	0	0	0	0	0	0
Michigan	75	69	9.7%	72	61	0	0	0	0	4	7
Ohio	115	235	-51.0%	9	83	102	138	0	0	5	15
Wisconsin	24	23	4.2%	17	15	7	8	0	0	0	0
West North Central	283	271	4.3%	283	271	0	0	0	0	0	0
Iowa	50	64	-21.0%	50	64	0	0	0	0	0	0
Kansas	72	49	48.0%	72	49	0	0	0	0	0	0
Minnesota	13	20	-34.0%	13	20	0	0	0	0	0	0
Missouri	80	83	-4.3%	80	83	0	0	0	0	0	0
Nebraska	1	11	-89.0%	1	11	0	0	0	0	0	0
North Dakota	61	45	36.0%	61	45	0	0	0	0	0	0
South Dakota	5	0	--	5	0	0	0	0	0	0	0
South Atlantic	664	841	-21.0%	455	669	114	80	0	0	95	92
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	131	231	-43.0%	114	211	0	0	0	0	17	20
Georgia	94	114	-17.0%	74	64	1	1	0	0	20	48
Maryland	86	66	29.0%	0	0	86	66	0	0	0	0
North Carolina	114	151	-24.0%	89	141	0	0	0	0	25	10
South Carolina	62	55	14.0%	47	50	0	0	0	0	15	5
Virginia	41	107	-62.0%	12	87	11	12	0	0	18	8
West Virginia	119	117	2.1%	119	117	0	0	0	0	0	0
East South Central	119	158	-25.0%	112	146	0	8	0	0	7	3
Alabama	5	17	-74.0%	5	9	0	8	0	0	0	0
Kentucky	72	76	-4.9%	72	76	0	0	0	0	0	0
Mississippi	7	15	-54.0%	7	15	0	0	0	0	0	0
Tennessee	36	50	-28.0%	28	47	0	0	0	0	7	3
West South Central	144	126	14.0%	114	94	29	32	0	0	0	0
Arkansas	40	38	5.7%	30	25	11	13	0	0	0	0
Louisiana	6	6	7.1%	6	6	0	0	0	0	0	0
Oklahoma	47	21	122.0%	47	21	0	0	0	0	0	0
Texas	50	61	-18.0%	31	42	19	19	0	0	0	0
Mountain	213	221	-3.4%	203	205	10	16	0	0	0	0
Arizona	50	81	-38.0%	50	81	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	7	13	-45.0%	0	0	7	13	0	0	0	0
Nevada	8	14	-45.0%	7	11	1	3	0	0	0	0
New Mexico	28	25	13.0%	28	25	0	0	0	0	0	0
Utah	61	55	9.9%	59	55	2	0	0	0	0	0
Wyoming	58	30	95.0%	58	30	0	0	0	0	0	0
Pacific Contiguous	4	14	-69.0%	0	6	4	8	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	14	-69.0%	0	6	4	8	0	0	0	0
Pacific Noncontiguous	3,630	4,479	-19.0%	2,888	3,630	743	849	0	0	0	0
Alaska	15	10	52.0%	15	10	0	0	0	0	0	0
Hawaii	3,615	4,469	-19.0%	2,872	3,620	743	849	0	0	0	0
U.S. Total	6,022	7,466	-19.0%	4,324	5,643	1,554	1,672	0	0	144	151

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

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

**Table 4.8.A. Receipts of Petroleum Coke Delivered for Electricity Generation by State, June 2020 and 2019
(Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 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	28	34	-18.0%	28	34	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	25	32	-21.0%	25	32	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	2	36.0%	3	2	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	38	38	-0.7%	38	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	38	38	-0.7%	38	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	133	58	129.0%	133	58	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	133	58	129.0%	133	58	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	199	130	53.0%	199	130	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) June 2020 and 2019
(Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 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	198	129	54.0%	198	129	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	168	109	55.0%	168	109	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	30	21	48.0%	30	21	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	299	229	31.0%	299	229	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	299	229	31.0%	299	229	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	789	522	51.0%	789	522	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	789	522	51.0%	789	522	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,286	881	46.0%	1,286	881	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, June 2020 and 2019
(Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	28,749	24,428	18.0%	145	14	28,604	24,414	0	0	0	0
Connecticut	13,496	11,240	20.0%	0	0	13,496	11,240	0	0	0	0
Maine	1,228	502	145.0%	0	0	1,228	502	0	0	0	0
Massachusetts	7,203	7,090	1.6%	127	10	7,076	7,080	0	0	0	0
New Hampshire	2,871	2,500	15.0%	18	4	2,853	2,496	0	0	0	0
Rhode Island	3,951	3,097	28.0%	0	0	3,951	3,097	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	124,121	107,109	16.0%	8,988	7,834	114,297	98,522	0	0	836	753
New Jersey	19,188	22,918	-16.0%	0	0	19,188	22,918	0	0	0	0
New York	34,541	28,650	21.0%	8,988	7,834	24,975	20,260	0	0	577	556
Pennsylvania	70,392	55,541	27.0%	0	0	70,133	55,344	0	0	258	197
East North Central	92,256	81,050	14.0%	33,367	27,783	57,325	51,675	460	590	1,104	1,001
Illinois	12,619	7,539	67.0%	1,792	757	10,823	6,780	0	0	4	2
Indiana	18,872	15,844	19.0%	8,822	7,369	10,050	8,475	0	0	0	0
Michigan	22,640	18,444	23.0%	7,539	4,733	14,261	12,748	460	590	380	373
Ohio	26,076	28,067	-7.1%	4,730	4,879	20,882	22,763	0	0	464	425
Wisconsin	12,049	11,156	8.0%	10,483	10,046	1,309	908	0	0	256	201
West North Central	15,616	17,312	-9.8%	13,140	14,588	2,075	2,141	139	186	261	397
Iowa	5,445	6,286	-13.0%	5,184	5,905	0	0	0	0	261	381
Kansas	1,549	2,145	-28.0%	1,549	2,145	0	0	0	0	0	0
Minnesota	3,351	3,751	-11.0%	2,988	3,644	362	90	1	0	0	16
Missouri	4,586	4,621	-0.7%	2,734	2,384	1,714	2,051	139	185	0	0
Nebraska	325	313	3.6%	325	313	0	0	0	0	0	0
North Dakota	361	196	84.0%	361	196	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	246,972	242,973	1.6%	203,306	204,588	40,384	35,504	0	0	3,281	2,881
Delaware	3,193	2,073	54.0%	0	0	3,193	2,073	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	123,892	121,785	1.7%	118,381	116,398	5,172	4,979	0	0	339	408
Georgia	34,989	32,656	7.1%	26,658	24,513	7,661	7,489	0	0	671	654
Maryland	7,804	7,502	4.0%	1,472	2,217	6,332	5,285	0	0	0	0
North Carolina	24,594	23,734	3.6%	19,910	18,724	4,425	4,763	0	0	258	247
South Carolina	14,811	16,869	-12.0%	14,325	16,691	241	106	0	0	245	72
Virginia	34,900	36,633	-4.7%	22,448	25,829	11,310	9,925	0	0	1,142	879
West Virginia	2,789	1,721	62.0%	113	217	2,049	885	0	0	626	619
East South Central	93,757	83,518	12.0%	65,844	55,771	25,742	25,355	0	0	2,170	2,392
Alabama	37,138	36,554	1.6%	12,762	13,410	24,376	23,145	0	0	0	0
Kentucky	9,599	7,634	26.0%	8,247	7,423	1,352	210	0	0	0	0
Mississippi	36,298	27,041	34.0%	36,284	25,040	14	2,000	0	0	0	0
Tennessee	10,721	12,289	-13.0%	8,551	9,897	0	0	0	0	2,170	2,392
West South Central	267,017	273,163	-2.2%	87,742	88,697	126,907	132,743	0	0	52,368	51,723
Arkansas	10,030	12,437	-19.0%	8,899	11,179	938	1,084	0	0	193	174
Louisiana	48,976	52,137	-6.1%	27,780	29,818	3,367	4,335	0	0	17,828	17,985
Oklahoma	29,072	29,615	-1.8%	18,947	17,699	9,502	11,447	0	0	624	469
Texas	178,940	178,974	0.0%	32,116	30,001	113,100	115,878	0	0	33,723	33,095
Mountain	74,951	71,297	5.1%	63,687	62,397	11,243	8,862	0	0	21	38
Arizona	34,772	31,962	8.8%	27,466	24,067	7,306	7,894	0	0	0	0
Colorado	12,054	9,410	28.0%	10,370	8,603	1,684	807	0	0	0	0
Idaho	251	911	-72.0%	251	911	0	0	0	0	0	0
Montana	177	210	-15.0%	177	210	0	0	0	0	0	0
Nevada	15,728	16,290	-3.5%	15,728	16,290	0	0	0	0	0	0
New Mexico	6,971	7,559	-7.8%	4,718	7,399	2,253	160	0	0	0	0
Utah	4,744	4,788	-0.9%	4,723	4,750	0	0	0	0	21	38
Wyoming	254	168	52.0%	254	168	0	0	0	0	0	0
Pacific Contiguous	42,689	41,320	3.3%	14,661	15,137	25,384	23,967	0	0	2,644	2,216
California	39,771	30,580	30.0%	13,449	9,919	23,678	18,444	0	0	2,644	2,216
Oregon	2,116	6,791	-69.0%	438	2,653	1,678	4,138	0	0	0	0
Washington	802	3,950	-80.0%	774	2,565	28	1,384	0	0	0	0
Pacific Noncontiguous	11	57	-81.0%	11	57	0	0	0	0	0	0
Alaska	11	57	-81.0%	11	57	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	986,138	942,226	4.7%	490,892	476,866	431,962	403,183	599	776	62,685	61,402

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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) June 2020 and 2019
(Million Cubic Feet)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	138,066	134,838	2.4%	167	55	137,899	134,783	0	0	0	0
Connecticut	71,513	62,248	15.0%	0	0	71,513	62,248	0	0	0	0
Maine	3,385	3,278	3.3%	0	0	3,385	3,278	0	0	0	0
Massachusetts	35,727	46,802	-24.0%	144	38	35,582	46,764	0	0	0	0
New Hampshire	10,446	8,072	29.0%	23	16	10,423	8,056	0	0	0	0
Rhode Island	16,996	14,438	18.0%	0	0	16,996	14,438	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	604,968	552,886	9.4%	39,491	38,774	560,187	509,142	0	0	5,290	4,969
New Jersey	92,410	123,670	-25.0%	0	0	92,410	123,670	0	0	0	0
New York	154,164	147,426	4.6%	39,491	38,774	111,009	104,950	0	0	3,665	3,702
Pennsylvania	358,393	281,789	27.0%	0	0	356,768	280,521	0	0	1,625	1,268
East North Central	519,733	459,579	13.0%	183,016	152,292	326,266	296,290	2,975	3,573	7,477	7,424
Illinois	50,446	33,846	49.0%	9,263	3,184	41,169	30,648	0	0	14	14
Indiana	101,817	89,159	14.0%	45,123	36,572	56,694	52,587	0	0	0	0
Michigan	129,030	110,947	16.0%	36,441	25,588	86,649	78,620	2,975	3,573	2,964	3,166
Ohio	167,300	162,527	2.9%	27,695	29,513	136,618	129,962	0	0	2,988	3,052
Wisconsin	71,140	63,101	13.0%	64,494	57,435	5,135	4,473	0	0	1,511	1,193
West North Central	75,114	82,849	-9.3%	61,914	71,458	9,935	8,160	1,041	1,041	2,224	2,190
Iowa	25,249	28,787	-12.0%	23,025	26,648	0	0	0	0	2,224	2,139
Kansas	7,650	8,658	-12.0%	7,650	8,658	0	0	0	0	0	0
Minnesota	17,664	21,240	-17.0%	16,774	20,895	887	292	3	3	0	51
Missouri	21,839	21,902	-0.3%	11,752	12,995	9,049	7,868	1,038	1,038	0	0
Nebraska	914	1,325	-31.0%	914	1,325	0	0	0	0	0	0
North Dakota	1,799	937	92.0%	1,799	937	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,311,679	1,226,288	7.0%	1,087,825	1,029,185	204,957	179,372	0	0	18,897	17,731
Delaware	10,521	9,983	5.4%	0	0	10,521	9,983	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	626,220	592,822	5.6%	603,174	574,063	21,101	16,562	0	0	1,945	2,197
Georgia	174,970	167,593	4.4%	130,561	127,339	40,052	36,113	0	0	4,358	4,141
Maryland	44,140	47,447	-7.0%	9,961	14,329	34,179	31,967	0	0	0	1,151
North Carolina	144,018	140,023	2.9%	117,033	113,496	25,304	25,300	0	0	1,681	1,227
South Carolina	88,410	80,951	9.2%	86,823	78,784	569	1,641	0	0	1,019	525
Virginia	212,545	180,994	17.0%	140,074	120,365	66,200	55,404	0	0	6,271	5,226
West Virginia	10,855	6,475	68.0%	200	809	7,030	2,402	0	0	3,625	3,264
East South Central	453,994	441,400	2.9%	321,101	294,257	118,809	133,481	0	0	14,084	13,661
Alabama	167,631	177,230	-5.4%	54,801	61,776	112,830	115,454	0	0	0	0
Kentucky	42,771	44,430	-3.7%	40,660	42,995	2,111	1,435	0	0	0	0
Mississippi	184,055	156,047	18.0%	180,187	139,454	3,868	16,593	0	0	0	0
Tennessee	59,537	63,693	-6.5%	45,453	50,032	0	0	0	0	14,084	13,661
West South Central	1,377,257	1,328,679	3.7%	429,808	388,942	628,436	616,689	0	0	319,012	323,047
Arkansas	47,995	58,066	-17.0%	39,923	49,980	6,737	6,692	0	0	1,335	1,395
Louisiana	265,333	259,655	2.2%	147,376	131,702	15,151	17,995	0	0	102,806	109,958
Oklahoma	150,586	129,788	16.0%	92,959	79,127	54,632	48,277	0	0	2,995	2,383
Texas	913,342	881,170	3.7%	149,550	128,134	551,916	543,725	0	0	211,876	209,311
Mountain	382,223	347,919	9.9%	322,686	296,473	59,314	51,369	0	0	224	77
Arizona	164,968	143,350	15.0%	127,440	110,204	37,529	33,146	0	0	0	0
Colorado	62,488	55,368	13.0%	54,240	48,244	8,249	7,124	0	0	0	0
Idaho	4,003	3,829	4.5%	4,003	3,829	0	0	0	0	0	0
Montana	1,112	1,225	-9.2%	1,112	1,225	0	0	0	0	0	0
Nevada	80,755	74,249	8.8%	80,755	74,249	0	0	0	0	0	0
New Mexico	41,724	39,528	5.6%	28,197	28,439	13,527	11,089	0	0	0	0
Utah	25,617	29,275	-12.0%	25,393	29,198	0	0	0	0	224	77
Wyoming	1,556	1,096	42.0%	1,547	1,086	9	10	0	0	0	0
Pacific Contiguous	287,094	269,425	6.6%	110,798	98,121	161,564	157,725	0	0	14,733	13,579
California	218,436	201,760	8.3%	76,601	69,156	127,102	119,025	0	0	14,733	13,579
Oregon	45,147	47,562	-5.1%	16,905	17,089	28,242	30,473	0	0	0	0
Washington	23,512	20,103	17.0%	17,292	11,875	6,220	8,227	0	0	0	0
Pacific Noncontiguous	162	298	-46.0%	162	298	0	0	0	0	0	0
Alaska	162	298	-46.0%	162	298	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	5,150,290	4,844,161	6.3%	2,556,968	2,369,856	2,207,367	2,087,012	4,016	4,613	381,940	382,680

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Notes:

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

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

Table 4.10.A. Average Cost of Coal Delivered for Electricity Generation by State, June 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019
New England	W	W	W	--	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.99	1.82	9.3%	--	--	1.99	1.82
New Jersey	W	W	W	--	--	W	W
New York	--	--	--	--	--	--	--
Pennsylvania	W	W	W	--	--	W	W
East North Central	1.88	1.95	-3.6%	2.01	2.11	1.69	1.75
Illinois	W	W	W	1.45	1.91	W	W
Indiana	W	W	W	2.09	2.15	W	W
Michigan	W	W	W	2.15	2.07	W	W
Ohio	1.74	1.75	-0.6%	1.87	1.75	1.72	1.75
Wisconsin	1.93	2.35	-18.0%	1.93	2.35	--	--
West North Central	1.57	1.63	-3.7%	1.57	1.63	--	--
Iowa	1.48	1.55	-4.5%	1.48	1.55	--	--
Kansas	1.59	1.61	-1.2%	1.59	1.61	--	--
Minnesota	1.93	2.04	-5.4%	1.93	2.04	--	--
Missouri	1.54	1.62	-4.9%	1.54	1.62	--	--
Nebraska	1.20	1.22	-1.6%	1.20	1.22	--	--
North Dakota	1.84	1.81	1.7%	1.84	1.81	--	--
South Dakota	1.72	1.69	1.8%	1.72	1.69	--	--
South Atlantic	2.28	2.54	-10.0%	2.36	2.57	1.80	2.29
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.46	2.90	-15.0%	2.46	2.90	--	--
Georgia	2.64	2.76	-4.3%	2.64	2.76	--	--
Maryland	W	2.60	W	--	--	W	2.60
North Carolina	W	W	W	2.53	2.71	W	W
South Carolina	W	3.21	W	3.31	3.21	W	--
Virginia	2.71	W	W	2.71	2.83	--	W
West Virginia	W	W	W	2.14	2.09	W	W
East South Central	W	W	W	1.98	2.10	W	W
Alabama	2.11	2.49	-15.0%	2.11	2.49	--	--
Kentucky	1.90	1.90	0.0%	1.90	1.90	--	--
Mississippi	W	W	W	3.15	2.81	W	W
Tennessee	1.83	2.14	-14.0%	1.83	2.14	--	--
West South Central	1.89	1.85	2.2%	2.24	2.15	1.59	1.52
Arkansas	W	W	W	1.82	1.99	W	W
Louisiana	W	W	W	7.20	3.44	W	W
Oklahoma	1.61	W	W	1.61	1.66	--	W
Texas	W	1.72	W	1.92	2.09	W	1.47
Mountain	1.91	W	W	1.93	2.06	1.53	W
Arizona	2.15	2.59	-17.0%	2.15	2.59	--	--
Colorado	1.66	1.86	-11.0%	1.66	1.86	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.20	2.00	W	W
Nevada	W	W	W	2.31	2.93	W	W
New Mexico	2.43	2.52	-3.6%	2.43	2.52	--	--
Utah	2.04	1.96	4.1%	2.04	1.96	--	--
Wyoming	W	W	W	1.65	1.50	W	W
Pacific Contiguous	W	W	W	--	2.19	W	W
California	--	--	--	--	--	--	--
Oregon	--	2.19	--	--	2.19	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.50	3.35	W	W
Alaska	3.50	3.35	4.5%	3.50	3.35	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	1.90	2.02	-5.9%	1.96	2.11	1.73	1.76

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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 4.10.B. Average Cost of Coal Delivered for Electricity Generation by State, (Year-to-Date) June 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	W	W	W	3.12	3.54	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	3.12	3.54	-12.0%	3.12	3.54	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.85	1.97	-6.1%	2.99	--	1.84	1.97
New Jersey	W	W	W	--	--	W	W
New York	--	W	W	--	--	--	W
Pennsylvania	W	1.91	W	2.99	--	W	1.91
East North Central	1.90	1.99	-4.5%	2.03	2.12	1.74	1.82
Illinois	W	W	W	1.62	1.97	W	W
Indiana	W	W	W	2.10	2.15	W	W
Michigan	W	W	W	2.05	2.08	W	W
Ohio	1.78	1.81	-1.7%	1.87	1.84	1.77	1.81
Wisconsin	2.05	2.25	-8.9%	2.05	2.25	--	--
West North Central	1.57	1.64	-4.3%	1.57	1.64	--	--
Iowa	1.51	1.56	-3.2%	1.51	1.56	--	--
Kansas	1.62	1.64	-1.2%	1.62	1.64	--	--
Minnesota	1.97	2.03	-3.0%	1.97	2.03	--	--
Missouri	1.57	1.69	-7.1%	1.57	1.69	--	--
Nebraska	1.23	1.22	0.8%	1.23	1.22	--	--
North Dakota	1.64	1.60	2.5%	1.64	1.60	--	--
South Dakota	1.89	1.81	4.4%	1.89	1.81	--	--
South Atlantic	2.44	2.62	-6.9%	2.49	2.65	2.01	2.35
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.56	2.90	-12.0%	2.56	2.90	--	--
Georgia	2.73	2.73	0.0%	2.73	2.73	--	--
Maryland	W	2.70	W	--	--	W	2.70
North Carolina	W	W	W	2.59	2.97	W	W
South Carolina	W	3.27	W	3.15	3.27	W	--
Virginia	2.52	W	W	2.52	2.77	--	W
West Virginia	W	W	W	2.14	2.10	W	W
East South Central	W	W	W	1.95	2.10	W	W
Alabama	2.04	2.37	-14.0%	2.04	2.37	--	--
Kentucky	1.90	1.94	-2.1%	1.90	1.94	--	--
Mississippi	W	W	W	2.88	3.15	W	W
Tennessee	1.92	2.22	-14.0%	1.92	2.22	--	--
West South Central	1.81	1.91	-5.2%	2.03	2.15	1.61	1.63
Arkansas	W	W	W	1.88	2.04	W	W
Louisiana	W	W	W	3.27	3.25	W	W
Oklahoma	W	W	W	1.56	1.77	W	W
Texas	W	1.78	W	1.95	2.08	W	1.58
Mountain	W	W	W	1.94	2.12	W	W
Arizona	2.16	2.66	-19.0%	2.16	2.66	--	--
Colorado	1.69	1.79	-5.6%	1.69	1.79	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.25	1.99	W	W
Nevada	W	W	W	2.42	2.82	W	W
New Mexico	2.51	2.48	1.2%	2.51	2.48	--	--
Utah	2.07	1.98	4.5%	2.07	1.98	--	--
Wyoming	W	W	W	1.64	1.82	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	3.67	3.43	W	W
Alaska	3.67	3.43	7.0%	3.67	3.43	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	1.91	2.06	-7.3%	1.96	2.14	1.76	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 4.11.A. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, June 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019
New England	W	W	W	--	15.53	W	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	--	W	--	--	W	--
New Hampshire	W	15.53	W	--	15.53	W	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	7.67	13.68	-44.0%	--	--	7.67	13.68
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	W	W	W	--	--	W	W
East North Central	9.82	14.11	-30.0%	9.12	13.82	11.03	14.63
Illinois	W	14.41	W	9.66	14.10	W	14.44
Indiana	9.31	14.04	-34.0%	9.31	14.04	--	--
Michigan	8.84	13.41	-34.0%	8.84	13.41	--	--
Ohio	W	14.49	W	9.58	14.08	W	14.68
Wisconsin	7.35	12.96	-43.0%	7.35	12.96	--	--
West North Central	8.93	13.91	-36.0%	8.93	13.91	--	--
Iowa	8.69	13.85	-37.0%	8.69	13.85	--	--
Kansas	8.78	13.59	-35.0%	8.78	13.59	--	--
Minnesota	10.12	14.50	-30.0%	10.12	14.50	--	--
Missouri	8.66	13.93	-38.0%	8.66	13.93	--	--
Nebraska	9.92	14.12	-30.0%	9.92	14.12	--	--
North Dakota	9.50	14.11	-33.0%	9.50	14.11	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	9.23	W	W	9.15	14.67	9.68	W
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	8.63	14.51	-41.0%	8.63	14.51	--	--
Georgia	8.90	16.00	-44.0%	8.90	16.00	--	--
Maryland	W	W	W	--	--	W	W
North Carolina	8.70	13.96	-38.0%	8.70	13.96	--	--
South Carolina	9.76	15.09	-35.0%	9.76	15.09	--	--
Virginia	W	W	W	15.25	15.11	W	W
West Virginia	9.76	14.82	-34.0%	9.76	14.82	--	--
East South Central	8.82	13.95	-37.0%	8.82	13.95	--	--
Alabama	9.67	14.56	-34.0%	9.67	14.56	--	--
Kentucky	8.78	13.84	-37.0%	8.78	13.84	--	--
Mississippi	8.66	13.89	-38.0%	8.66	13.89	--	--
Tennessee	8.59	13.97	-39.0%	8.59	13.97	--	--
West South Central	W	W	W	11.70	14.10	W	W
Arkansas	W	14.15	W	--	14.15	W	--
Louisiana	--	13.24	--	--	13.24	--	--
Oklahoma	8.91	14.48	-38.0%	8.91	14.48	--	--
Texas	W	W	W	12.44	14.12	W	W
Mountain	10.67	W	W	10.62	16.07	11.79	W
Arizona	10.01	17.30	-42.0%	10.01	17.30	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	12.35	16.84	W	W
New Mexico	11.13	19.19	-42.0%	11.13	19.19	--	--
Utah	W	15.47	W	9.61	15.47	W	--
Wyoming	10.78	14.19	-24.0%	10.78	14.19	--	--
Pacific Contiguous	--	W	W	--	--	--	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	W	W	--	--	--	W
Pacific Noncontiguous	W	W	W	5.48	12.71	W	W
Alaska	9.19	15.64	-41.0%	9.19	15.64	--	--
Hawaii	W	W	W	5.47	12.70	W	W
U.S. Total	7.22	13.69	-47.0%	6.62	13.29	8.21	15.09

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

Petroleum Liquids includes distillate and residual fuel oils.

See the Technical Notes for fuel conversion factors.

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	W	10.33	W	10.22	17.48	W	10.03
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	7.37	--	W	W
New Hampshire	W	17.48	W	17.38	17.48	W	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	12.93	W	5.22	12.15	W	13.84
New Jersey	W	W	W	--	--	W	W
New York	7.60	12.69	-40.0%	5.22	12.15	11.22	14.97
Pennsylvania	8.86	W	W	--	--	8.86	W
East North Central	10.40	W	W	10.11	14.86	10.94	W
Illinois	W	16.91	W	11.55	15.63	W	16.97
Indiana	10.33	14.88	-31.0%	10.33	14.88	--	--
Michigan	9.87	13.86	-29.0%	9.87	13.86	--	--
Ohio	10.68	W	W	10.38	15.57	10.71	W
Wisconsin	W	W	W	9.01	14.80	W	W
West North Central	9.64	14.71	-34.0%	9.64	14.71	--	--
Iowa	9.52	14.69	-35.0%	9.52	14.69	--	--
Kansas	9.88	15.08	-34.0%	9.88	15.08	--	--
Minnesota	9.59	15.24	-37.0%	9.59	15.24	--	--
Missouri	8.75	14.55	-40.0%	8.75	14.55	--	--
Nebraska	11.52	14.91	-23.0%	11.52	14.91	--	--
North Dakota	10.65	14.35	-26.0%	10.65	14.35	--	--
South Dakota	8.82	--	--	8.82	--	--	--
South Atlantic	10.33	15.01	-31.0%	10.88	15.13	7.89	14.00
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	8.80	15.77	-44.0%	8.80	15.77	--	--
Georgia	W	W	W	11.41	14.81	W	W
Maryland	7.70	W	W	--	--	7.70	W
North Carolina	11.09	14.74	-25.0%	11.09	14.74	--	--
South Carolina	W	15.30	W	11.85	15.30	W	--
Virginia	W	W	W	14.51	14.00	W	W
West Virginia	11.63	15.40	-24.0%	11.63	15.40	--	--
East South Central	10.52	W	W	10.52	14.60	--	W
Alabama	9.46	W	W	9.46	15.11	--	W
Kentucky	10.38	14.66	-29.0%	10.38	14.66	--	--
Mississippi	10.14	14.44	-30.0%	10.14	14.44	--	--
Tennessee	11.15	14.47	-23.0%	11.15	14.47	--	--
West South Central	9.49	W	W	9.35	14.81	10.05	W
Arkansas	W	W	W	9.72	14.96	W	W
Louisiana	10.82	14.78	-27.0%	10.82	14.78	--	--
Oklahoma	7.74	15.56	-50.0%	7.74	15.56	--	--
Texas	W	W	W	11.13	14.35	W	W
Mountain	13.16	W	W	13.20	16.85	12.51	W
Arizona	13.56	16.89	-20.0%	13.56	16.89	--	--
Colorado	12.13	17.36	-30.0%	12.13	17.36	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	15.14	15.43	W	W
New Mexico	13.03	18.41	-29.0%	13.03	18.41	--	--
Utah	W	16.79	W	13.12	16.79	W	--
Wyoming	12.86	16.05	-20.0%	12.86	16.05	--	--
Pacific Contiguous	W	W	W	--	16.52	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	16.52	W	W
Pacific Noncontiguous	W	W	W	9.91	13.11	W	W
Alaska	11.96	15.56	-23.0%	11.96	15.56	--	--
Hawaii	W	W	W	9.90	13.10	W	W
U.S. Total	9.89	13.76	-28.0%	10.13	13.63	9.18	14.21

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Notes:

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See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

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, June 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.29	1.55	-17.0%	1.29	1.55	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.23	1.52	-19.0%	1.23	1.52	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.88	1.94	-3.1%	1.88	1.94	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.94	2.76	-30.0%	1.94	2.76	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.94	2.76	-30.0%	1.94	2.76	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.36	2.16	-37.0%	1.36	2.16	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.36	2.16	-37.0%	1.36	2.16	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.46	2.18	-33.0%	1.46	2.18	--	--

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

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W = Withheld to avoid disclosure of individual company data.

Notes:

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See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Petroleum Coke includes petroleum coke-derived synthesis gas.

See the Technical Notes for fuel conversion factors.

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

**Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) June 2020 and 2019
(Dollars per MMBtu)**

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.31	1.59	-18.0%	1.31	1.59	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.21	1.54	-21.0%	1.21	1.54	--	--
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	1.90	2.76	-31.0%	1.90	2.76	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.90	2.76	-31.0%	1.90	2.76	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.36	2.25	-40.0%	1.36	2.25	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.36	2.25	-40.0%	1.36	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	1.48	2.29	-35.0%	1.48	2.29	--	--

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W = Withheld to avoid disclosure of individual company data.

Notes:

See Glossary for definitions. Values are preliminary.

See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

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, June 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2020	June 2019	Percentage Change	June 2020	June 2019	June 2020	June 2019
New England	W	W	W	1.64	4.17	W	W
Connecticut	1.66	2.30	-28.0%	--	--	1.66	2.30
Maine	W	W	W	--	--	W	W
Massachusetts	W	3.02	W	1.56	2.28	W	3.02
New Hampshire	W	W	W	2.17	8.35	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.54	2.30	-33.0%	1.67	2.47	1.53	2.29
New Jersey	1.57	2.40	-35.0%	--	--	1.57	2.40
New York	1.65	2.45	-33.0%	1.67	2.47	1.64	2.45
Pennsylvania	1.48	2.19	-32.0%	--	--	1.48	2.19
East North Central	1.71	2.38	-28.0%	1.83	2.55	1.65	2.28
Illinois	W	2.43	W	1.75	2.35	W	2.44
Indiana	1.74	2.48	-30.0%	1.83	2.76	1.66	2.25
Michigan	1.77	2.43	-27.0%	1.86	2.61	1.72	2.37
Ohio	1.57	2.25	-30.0%	1.62	2.49	1.56	2.20
Wisconsin	W	2.41	W	1.91	2.41	W	--
West North Central	W	W	W	2.02	2.28	W	W
Iowa	1.72	2.03	-15.0%	1.72	2.03	--	--
Kansas	2.38	2.21	7.7%	2.38	2.21	--	--
Minnesota	W	W	W	2.45	2.81	W	W
Missouri	W	W	W	1.90	2.01	W	W
Nebraska	2.22	2.53	-12.0%	2.22	2.53	--	--
North Dakota	1.85	3.29	-44.0%	1.85	3.29	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.51	3.24	-23.0%	2.62	3.33	1.77	2.59
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	2.81	3.55	W	W
Georgia	W	W	W	1.97	2.86	W	W
Maryland	1.96	2.68	-27.0%	2.35	2.74	1.87	2.66
North Carolina	W	W	W	3.14	3.70	W	W
South Carolina	2.32	3.00	-23.0%	2.32	3.00	--	--
Virginia	2.00	2.70	-26.0%	2.17	2.79	1.55	2.37
West Virginia	W	W	W	1.74	2.19	W	W
East South Central	1.97	2.70	-27.0%	2.04	2.76	1.73	2.53
Alabama	W	W	W	2.03	2.75	W	W
Kentucky	W	W	W	2.44	3.22	W	W
Mississippi	W	W	W	1.93	2.62	W	W
Tennessee	2.10	2.79	-25.0%	2.10	2.79	--	--
West South Central	1.78	2.20	-19.0%	1.82	2.17	1.74	2.23
Arkansas	W	W	W	1.70	2.38	W	W
Louisiana	W	W	W	1.86	2.54	W	W
Oklahoma	W	W	W	2.01	1.89	W	W
Texas	1.74	2.17	-20.0%	1.72	1.91	1.75	2.25
Mountain	2.17	1.97	10.0%	2.18	1.91	2.15	2.49
Arizona	W	W	W	2.21	1.61	W	W
Colorado	W	W	W	2.44	2.77	W	W
Idaho	2.93	2.37	24.0%	2.93	2.37	--	--
Montana	1.50	0.74	103.0%	1.50	0.74	--	--
Nevada	2.14	2.37	-9.7%	2.14	2.37	--	--
New Mexico	1.75	0.46	280.0%	1.75	0.46	--	--
Utah	1.94	2.24	-13.0%	1.94	2.24	--	--
Wyoming	1.69	2.07	-18.0%	1.69	2.07	--	--
Pacific Contiguous	2.37	2.69	-12.0%	2.64	2.84	2.14	2.55
California	W	2.96	W	2.65	3.25	W	2.73
Oregon	W	W	W	2.38	1.59	W	W
Washington	W	W	W	2.78	2.69	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	2.02	2.58	-22.0%	2.26	2.76	1.70	2.33

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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) June 2020 and 2019
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2020 YTD	June 2019 YTD	Percentage Change	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	W	W	W	1.89	6.83	W	W
Connecticut	2.39	3.93	-39.0%	--	--	2.39	3.93
Maine	W	W	W	--	--	W	W
Massachusetts	4.18	5.84	-28.0%	1.58	5.74	4.19	5.84
New Hampshire	W	W	W	3.77	9.32	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.84	3.06	-40.0%	2.56	4.02	1.78	2.98
New Jersey	1.95	3.22	-39.0%	--	--	1.95	3.22
New York	2.14	3.62	-41.0%	2.56	4.02	1.97	3.44
Pennsylvania	1.67	2.72	-39.0%	--	--	1.67	2.72
East North Central	1.88	2.82	-33.0%	2.03	2.99	1.79	2.74
Illinois	W	2.93	W	1.88	2.96	W	2.93
Indiana	1.91	2.86	-33.0%	2.03	3.02	1.83	2.75
Michigan	1.93	2.86	-33.0%	2.06	3.03	1.88	2.80
Ohio	1.73	2.68	-35.0%	1.74	2.82	1.73	2.65
Wisconsin	W	3.05	W	2.18	3.05	W	--
West North Central	W	W	W	2.11	2.92	W	W
Iowa	1.81	2.67	-32.0%	1.81	2.67	--	--
Kansas	2.42	3.15	-23.0%	2.42	3.15	--	--
Minnesota	W	W	W	2.39	3.30	W	W
Missouri	W	W	W	1.91	2.63	W	W
Nebraska	3.85	3.12	23.0%	3.85	3.12	--	--
North Dakota	2.46	4.04	-39.0%	2.46	4.04	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.79	3.76	-26.0%	2.92	3.86	1.97	3.05
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.05	4.01	W	W
Georgia	W	W	W	2.22	3.23	W	W
Maryland	2.26	3.42	-34.0%	2.47	3.83	2.20	3.24
North Carolina	W	W	W	3.38	4.04	W	W
South Carolina	2.61	3.38	-23.0%	2.61	3.38	--	--
Virginia	2.57	3.69	-30.0%	2.86	3.93	1.69	2.89
West Virginia	W	W	W	1.83	2.84	W	W
East South Central	2.25	3.08	-27.0%	2.30	3.12	2.07	2.95
Alabama	W	W	W	2.30	3.10	W	W
Kentucky	W	W	W	2.94	3.62	W	W
Mississippi	W	W	W	2.14	3.00	W	W
Tennessee	2.37	3.07	-23.0%	2.37	3.07	--	--
West South Central	1.86	2.65	-30.0%	1.90	2.65	1.83	2.65
Arkansas	W	W	W	1.93	2.79	W	W
Louisiana	W	W	W	2.02	2.88	W	W
Oklahoma	W	W	W	1.95	2.73	W	W
Texas	1.81	2.58	-30.0%	1.73	2.32	1.84	2.66
Mountain	2.23	2.81	-21.0%	2.22	2.79	2.46	3.08
Arizona	W	W	W	2.04	2.04	W	W
Colorado	W	W	W	2.64	3.35	W	W
Idaho	2.38	6.79	-65.0%	2.38	6.79	--	--
Montana	1.51	1.83	-17.0%	1.51	1.83	--	--
Nevada	2.48	3.51	-29.0%	2.48	3.51	--	--
New Mexico	1.24	1.10	13.0%	1.24	1.10	--	--
Utah	2.37	3.60	-34.0%	2.37	3.60	--	--
Wyoming	W	W	W	1.83	2.86	W	W
Pacific Contiguous	2.61	4.27	-39.0%	2.76	4.48	2.45	4.08
California	2.68	4.40	-39.0%	2.96	4.86	2.46	4.02
Oregon	W	W	W	1.95	2.99	W	W
Washington	W	W	W	2.77	4.67	W	W
Pacific Noncontiguous	7.87	7.78	1.2%	7.87	7.78	--	--
Alaska	7.87	7.78	1.2%	7.87	7.78	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.26	3.22	-30.0%	2.48	3.38	1.94	3.01

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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, June 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	0.58	6.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	0.58	6.7	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	458	2.71	10.1	0	--	--	0	--	--
New Jersey	62	1.64	7.6	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	396	2.89	10.5	0	--	--	0	--	--
East North Central	3,958	3.17	10.8	3,001	0.22	4.7	0	--	--
Illinois	735	3.49	21.9	1,045	0.20	4.6	0	--	--
Indiana	1,589	2.81	9.2	53	0.23	4.4	0	--	--
Michigan	181	2.23	7.4	953	0.25	4.6	0	--	--
Ohio	1,391	3.60	8.9	0	--	--	0	--	--
Wisconsin	62	1.87	7.6	950	0.22	4.8	0	--	--
West North Central	73	2.80	9.6	5,789	0.26	4.8	1,534	0.81	9.9
Iowa	32	2.70	9.5	928	0.25	4.6	0	--	--
Kansas	10	2.68	11.7	1,097	0.31	5.0	0	--	--
Minnesota	0	--	--	424	0.31	5.8	0	--	--
Missouri	31	2.94	8.9	2,347	0.24	4.7	0	--	--
Nebraska	0	--	--	950	0.23	4.6	0	--	--
North Dakota	0	--	--	0	--	--	1,534	0.81	9.9
South Dakota	0	--	--	43	0.34	5.5	0	--	--
South Atlantic	3,059	2.71	9.9	222	0.34	4.9	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	359	2.61	8.7	0	--	--	0	--	--
Georgia	96	2.11	8.2	222	0.34	4.9	0	--	--
Maryland	64	2.00	15.0	0	--	--	0	--	--
North Carolina	360	1.76	9.0	0	--	--	0	--	--
South Carolina	210	1.47	9.5	0	--	--	0	--	--
Virginia	62	1.01	11.0	0	--	--	0	--	--
West Virginia	1,909	3.15	10.2	0	--	--	0	--	--
East South Central	1,768	2.67	9.3	1,003	0.27	5.0	241	0.54	12.9
Alabama	171	0.80	9.1	737	0.27	5.1	0	--	--
Kentucky	1,353	2.94	9.5	234	0.25	4.9	0	--	--
Mississippi	25	0.47	8.2	32	0.23	4.5	241	0.54	12.9
Tennessee	219	2.63	8.3	0	--	--	0	--	--
West South Central	17	2.28	15.3	4,579	0.28	5.0	1,754	1.04	16.8
Arkansas	3	0.52	10.5	828	0.23	4.7	0	--	--
Louisiana	10	3.25	10.5	290	0.27	4.8	57	0.58	14.5
Oklahoma	4	0.51	58.4	376	0.19	4.5	0	--	--
Texas	0	--	--	3,085	0.31	5.1	1,697	1.05	16.9
Mountain	1,458	0.58	14.0	3,455	0.51	8.7	18	0.70	9.2
Arizona	0	--	--	609	0.69	10.3	0	--	--
Colorado	122	0.46	10.5	690	0.34	5.9	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	202	0.68	9.6	18	0.70	9.2
Nevada	36	0.43	10.5	30	0.25	4.8	0	--	--
New Mexico	321	0.92	24.5	351	0.80	21.0	0	--	--
Utah	980	0.50	11.6	43	0.92	9.5	0	--	--
Wyoming	0	--	--	1,530	0.42	6.3	0	--	--
Pacific Contiguous	44	0.43	8.2	74	0.37	8.4	0	--	--
California	44	0.43	8.2	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	74	0.37	8.4	0	--	--
Pacific Noncontiguous	0	--	--	59	0.48	5.3	14	0.14	9.5
Alaska	0	--	--	0	--	--	14	0.14	9.5
Hawaii	0	--	--	59	0.48	5.3	0	--	--
U.S. Total	10,838	2.60	10.6	18,182	0.31	5.6	3,561	0.91	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 Utilities by State, June 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	1,865	2.79	9.0	2,229	0.23	4.7	0	--	--
Illinois	77	3.06	10.9	273	0.21	4.5	0	--	--
Indiana	1,423	2.76	9.2	53	0.23	4.4	0	--	--
Michigan	141	2.56	7.6	953	0.25	4.6	0	--	--
Ohio	161	3.51	8.7	0	--	--	0	--	--
Wisconsin	62	1.87	7.6	950	0.22	4.8	0	--	--
West North Central	41	2.87	9.6	5,589	0.26	4.8	1,534	0.81	9.9
Iowa	0	--	--	775	0.24	4.7	0	--	--
Kansas	10	2.68	11.7	1,097	0.31	5.0	0	--	--
Minnesota	0	--	--	424	0.31	5.8	0	--	--
Missouri	31	2.94	8.9	2,347	0.24	4.7	0	--	--
Nebraska	0	--	--	902	0.23	4.6	0	--	--
North Dakota	0	--	--	0	--	--	1,534	0.81	9.9
South Dakota	0	--	--	43	0.34	5.5	0	--	--
South Atlantic	2,571	2.65	10.0	222	0.34	4.9	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	359	2.61	8.7	0	--	--	0	--	--
Georgia	86	2.26	8.1	222	0.34	4.9	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	332	1.85	9.2	0	--	--	0	--	--
South Carolina	192	1.50	9.5	0	--	--	0	--	--
Virginia	61	1.01	11.0	0	--	--	0	--	--
West Virginia	1,542	3.06	10.5	0	--	--	0	--	--
East South Central	1,732	2.71	9.4	1,003	0.27	5.0	0	--	--
Alabama	171	0.80	9.1	737	0.27	5.1	0	--	--
Kentucky	1,353	2.94	9.5	234	0.25	4.9	0	--	--
Mississippi	25	0.47	8.2	32	0.23	4.5	0	--	--
Tennessee	183	3.00	8.8	0	--	--	0	--	--
West South Central	13	2.88	17.0	2,494	0.25	4.9	375	1.67	22.6
Arkansas	0	--	--	630	0.22	4.6	0	--	--
Louisiana	10	3.25	10.5	142	0.26	5.1	57	0.58	14.5
Oklahoma	4	0.51	58.4	376	0.19	4.5	0	--	--
Texas	0	--	--	1,346	0.28	5.1	318	1.90	24.4
Mountain	1,458	0.58	14.0	3,178	0.50	8.7	18	0.70	9.2
Arizona	0	--	--	609	0.69	10.3	0	--	--
Colorado	122	0.46	10.5	690	0.34	5.9	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	18	0.70	9.2
Nevada	36	0.43	10.5	0	--	--	0	--	--
New Mexico	321	0.92	24.5	351	0.80	21.0	0	--	--
Utah	980	0.50	11.6	43	0.92	9.5	0	--	--
Wyoming	0	--	--	1,485	0.42	6.4	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	14	0.14	9.5
Alaska	0	--	--	0	--	--	14	0.14	9.5
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	7,680	2.34	10.3	14,714	0.31	5.7	1,941	0.95	12.1

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

Bituminous coal includes anthracite coal and coal-derived synthesis gas.

See Glossary for definitions. Values for 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, June 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	0.58	6.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	0.58	6.7	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	458	2.71	10.1	0	--	--	0	--	--
New Jersey	62	1.64	7.6	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	396	2.89	10.5	0	--	--	0	--	--
East North Central	1,999	3.51	12.7	717	0.20	4.5	0	--	--
Illinois	565	3.56	26.5	717	0.20	4.5	0	--	--
Indiana	166	3.26	8.9	0	--	--	0	--	--
Michigan	39	0.95	6.9	0	--	--	0	--	--
Ohio	1,230	3.61	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	462	3.13	9.5	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	64	2.00	15.0	0	--	--	0	--	--
North Carolina	13	0.69	6.0	0	--	--	0	--	--
South Carolina	18	1.14	9.3	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	368	3.51	8.8	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	241	0.54	12.9
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	241	0.54	12.9
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	2,085	0.32	5.1	1,379	0.89	15.4
Arkansas	0	--	--	198	0.25	5.0	0	--	--
Louisiana	0	--	--	148	0.28	4.6	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	1,739	0.33	5.2	1,379	0.89	15.4
Mountain	0	--	--	277	0.58	8.4	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	202	0.68	9.6	0	--	--
Nevada	0	--	--	30	0.25	4.8	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	45	0.37	5.3	0	--	--
Pacific Contiguous	0	--	--	74	0.37	8.4	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	74	0.37	8.4	0	--	--
Pacific Noncontiguous	0	--	--	59	0.48	5.3	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	59	0.48	5.3	0	--	--
U.S. Total	2,922	3.31	11.7	3,212	0.32	5.3	1,620	0.85	15.1

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

Bituminous coal includes anthracite coal and coal-derived synthesis gas.

See Glossary for definitions. Values for 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, June 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, June 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	93	3.49	8.8	55	0.22	5.7	0	--	--
Illinois	93	3.50	8.8	55	0.22	5.7	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	0.49	6.3	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	32	2.70	9.5	201	0.25	4.0	0	--	--
Iowa	32	2.70	9.5	153	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	26	0.78	8.1	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	10	0.80	9.3	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	15	0.76	7.5	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	1	0.79	7.0	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	36	0.96	6.4	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	36	0.96	6.4	0	--	--	0	--	--
West South Central	3	0.52	10.5	0	--	--	0	--	--
Arkansas	3	0.52	10.5	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	44	0.43	8.2	0	--	--	0	--	--
California	44	0.43	8.2	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	235	2.00	8.3	256	0.25	4.3	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 - June 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
May	105,345	93,332	71,195	452	270,325
June	131,248	108,654	75,225	481	315,608
Year to Date					
2018	699,102	664,237	486,861	3,808	1,854,008
2019	670,593	648,056	465,844	3,900	1,788,394
2020	673,699	605,260	446,418	3,324	1,728,701
Rolling 12 Months Ending in June					
2019	1,440,585	1,365,574	979,656	7,757	3,793,571
2020	1,438,253	1,311,748	932,723	7,120	3,689,845

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 - June 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
May	13,842	9,746	4,615	42	28,245
June	17,425	11,904	5,228	50	34,607
Year to Date					
2018	89,300	70,272	33,193	366	193,130
2019	87,048	68,276	31,152	380	186,857
2020	88,015	63,444	29,017	320	180,796
Rolling 12 Months Ending in June					
2019	186,781	145,430	67,177	758	400,146
2020	188,069	139,620	62,898	689	391,276

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 - June 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
May	13.14	10.44	6.48	9.29	10.45
June	13.28	10.96	6.95	10.44	10.97
Year to Date					
2018	12.77	10.58	6.82	9.61	10.42
2019	12.98	10.54	6.69	9.75	10.45
2020	13.06	10.48	6.50	9.63	10.46
Rolling 12 Months Ending in June					
2019	12.97	10.65	6.86	9.77	10.55
2020	13.08	10.64	6.74	9.68	10.60

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, June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	4,020	3,376	3,854	4,183	1,285	1,210	33	38	9,192	8,807
Connecticut	1,172	944	992	1,040	249	238	8	10	2,421	2,232
Maine	371	331	291	308	244	143	0	0	907	782
Massachusetts	1,642	1,406	1,773	2,019	465	498	25	26	3,904	3,949
New Hampshire	395	323	335	352	161	161	0	0	891	836
Rhode Island	270	225	314	305	58	58	1	2	643	591
Vermont	170	147	149	158	107	111	0	0	426	417
Middle Atlantic	11,615	10,417	11,437	12,606	5,717	6,053	242	308	29,012	29,384
New Jersey	2,890	2,641	3,075	3,203	537	510	22	26	6,523	6,380
New York	4,377	3,871	5,530	6,111	1,266	1,459	191	235	11,364	11,675
Pennsylvania	4,349	3,905	2,832	3,293	3,914	4,084	30	47	11,124	11,329
East North Central	17,455	14,322	14,374	15,059	13,627	15,222	33	43	45,489	44,646
Illinois	4,607	3,687	3,780	4,043	3,276	3,487	29	38	11,692	11,256
Indiana	2,898	2,517	1,951	2,016	3,048	3,405	1	2	7,898	7,940
Michigan	3,352	2,530	3,034	3,146	1,893	2,498	0	1	8,279	8,174
Ohio	4,600	3,995	3,734	3,897	3,558	3,849	3	2	11,895	11,744
Wisconsin	1,998	1,591	1,875	1,957	1,851	1,984	0	0	5,724	5,532
West North Central	9,616	8,197	8,194	8,514	7,039	7,311	3	3	24,852	24,026
Iowa	1,275	1,047	976	969	2,005	2,018	0	0	4,255	4,034
Kansas	1,491	1,259	1,318	1,356	786	872	0	0	3,595	3,488
Minnesota	1,961	1,648	1,781	1,887	1,370	1,657	1	2	5,113	5,193
Missouri	3,246	2,864	2,484	2,600	980	941	1	2	6,711	6,407
Nebraska	930	751	781	799	973	851	0	0	2,683	2,400
North Dakota	331	291	464	501	712	737	0	0	1,507	1,528
South Dakota	383	337	390	403	214	235	0	0	988	975
South Atlantic	33,790	32,953	25,862	27,998	10,433	11,585	82	115	70,168	72,651
Delaware	408	395	364	390	154	163	0	0	926	947
District of Columbia	200	210	506	684	14	18	21	28	741	940
Florida	12,414	12,229	8,071	8,742	1,303	1,420	6	7	21,795	22,398
Georgia	5,399	5,344	3,840	4,190	2,438	2,620	11	14	11,687	12,167
Maryland	2,358	2,229	2,241	2,452	289	304	34	50	4,923	5,035
North Carolina	5,188	5,115	3,938	4,367	1,936	2,260	1	2	11,063	11,743
South Carolina	2,909	2,850	1,804	1,990	2,018	2,182	0	0	6,731	7,022
Virginia	4,111	3,826	4,536	4,565	1,171	1,498	8	14	9,826	9,903
West Virginia	804	755	562	618	1,111	1,121	0	0	2,477	2,494
East South Central	10,390	10,349	7,418	8,186	7,328	7,925	0	0	25,136	26,460
Alabama	2,912	2,961	1,853	2,041	2,428	2,749	0	0	7,192	7,751
Kentucky	2,261	2,109	1,569	1,662	2,140	2,243	0	0	5,969	6,015
Mississippi	1,705	1,730	1,124	1,259	1,272	1,380	0	0	4,101	4,369
Tennessee	3,511	3,549	2,873	3,224	1,488	1,553	0	0	7,872	8,325
West South Central	21,924	20,590	16,852	17,386	15,282	16,392	15	16	54,073	54,385
Arkansas	1,503	1,493	943	1,040	1,290	1,460	0	0	3,735	3,993
Louisiana	2,933	2,966	2,047	2,238	2,837	3,014	1	1	7,818	8,219
Oklahoma	2,378	2,113	1,730	1,704	1,683	1,742	0	0	5,790	5,559
Texas	15,111	14,019	12,133	12,404	9,472	10,176	14	15	36,730	36,614
Mountain	10,142	8,935	8,067	8,463	7,133	7,628	13	15	25,355	25,041
Arizona	4,030	3,620	2,650	2,715	1,151	1,157	1	1	7,832	7,493
Colorado	1,876	1,518	1,564	1,698	1,335	1,340	8	9	4,783	4,564
Idaho	624	587	493	514	1,082	1,060	0	0	2,198	2,160
Montana	360	328	374	385	395	426	0	0	1,128	1,139
Nevada	1,494	1,350	1,070	1,073	984	1,287	0	1	3,549	3,710
New Mexico	685	572	754	809	718	724	0	0	2,157	2,105
Utah	873	763	903	973	787	807	4	4	2,568	2,547
Wyoming	200	198	259	298	680	827	0	0	1,139	1,323
Pacific Contiguous	11,907	10,013	12,195	12,476	7,017	6,885	59	74	31,178	29,449
California	8,046	6,507	8,938	8,890	4,237	3,767	51	63	21,272	19,227
Oregon	1,363	1,273	1,204	1,326	1,005	1,055	2	2	3,574	3,656
Washington	2,498	2,234	2,054	2,261	1,774	2,064	6	9	6,332	6,566
Pacific Noncontiguous	388	366	401	465	365	408	0	0	1,154	1,239
Alaska	140	131	187	209	100	97	0	0	427	436
Hawaii	248	235	214	256	264	311	0	0	727	803
U.S. Total	131,248	119,519	108,654	115,338	75,225	80,618	481	612	315,608	316,087

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 June 2020 and 2019 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	22,617	22,103	22,723	24,811	7,243	7,578	240	275	52,823	54,767
Connecticut	6,085	5,936	5,323	5,832	1,357	1,445	66	87	12,831	13,299
Maine	2,439	2,450	1,846	2,110	1,267	1,338	0	0	5,552	5,898
Massachusetts	9,342	9,092	11,152	12,088	2,756	2,853	164	175	23,414	24,207
New Hampshire	2,303	2,199	1,884	2,080	894	930	0	0	5,081	5,210
Rhode Island	1,397	1,384	1,637	1,746	314	337	10	14	3,359	3,480
Vermont	1,051	1,042	880	955	655	676	0	0	2,585	2,673
Middle Atlantic	62,703	62,961	66,954	74,862	34,185	35,179	1,578	1,957	165,420	174,958
New Jersey	12,956	12,785	16,558	18,218	3,102	3,285	134	154	32,750	34,442
New York	23,573	23,395	33,329	35,901	7,659	8,075	1,247	1,451	65,809	68,822
Pennsylvania	26,174	26,781	17,067	20,743	23,423	23,819	196	352	66,861	71,694
East North Central	90,114	88,169	81,406	87,616	81,691	90,220	316	345	253,527	266,351
Illinois	21,567	20,974	22,198	23,991	19,244	20,452	284	309	63,293	65,725
Indiana	15,568	15,701	10,570	11,428	18,586	20,416	9	10	44,733	47,555
Michigan	16,812	15,802	16,997	18,371	11,790	14,424	3	3	45,601	48,600
Ohio	25,139	24,980	20,868	22,387	21,182	23,248	19	21	67,208	70,636
Wisconsin	11,029	10,712	10,774	11,440	10,890	11,681	1	1	32,693	33,835
West North Central	51,326	51,509	46,332	49,777	42,038	43,078	21	25	139,717	144,389
Iowa	7,081	7,074	5,635	5,972	11,583	11,523	0	0	24,299	24,568
Kansas	6,242	6,222	6,835	7,404	4,892	5,325	0	0	17,970	18,950
Minnesota	11,102	10,968	10,340	11,077	9,135	10,067	10	13	30,586	32,126
Missouri	16,684	16,880	13,583	14,802	5,347	5,524	11	12	35,625	37,218
Nebraska	5,047	5,086	4,355	4,644	5,023	4,851	0	0	14,425	14,582
North Dakota	2,639	2,686	3,248	3,397	4,758	4,467	0	0	10,645	10,551
South Dakota	2,531	2,592	2,336	2,480	1,300	1,322	0	0	6,168	6,394
South Atlantic	170,003	172,737	141,366	151,451	64,011	67,801	605	671	375,985	392,660
Delaware	2,296	2,389	1,969	2,111	900	907	0	0	5,166	5,407
District of Columbia	1,122	1,205	3,318	3,858	105	99	152	158	4,697	5,320
Florida	58,958	57,461	43,323	45,764	7,893	8,003	38	44	110,212	111,271
Georgia	26,827	27,278	20,805	22,481	14,352	15,537	73	82	62,056	65,379
Maryland	12,848	13,441	12,616	13,946	1,644	1,821	248	280	27,357	29,488
North Carolina	27,277	28,301	21,793	23,442	12,188	13,014	8	9	61,265	64,766
South Carolina	14,273	14,519	9,646	10,364	12,151	13,178	0	0	36,069	38,062
Virginia	21,005	22,563	24,568	25,795	7,753	8,094	87	98	53,413	56,550
West Virginia	5,397	5,579	3,329	3,690	7,024	7,148	0	0	15,750	16,418
East South Central	55,082	56,475	40,086	43,538	44,714	47,322	0	0	139,883	147,335
Alabama	14,599	15,009	9,821	10,673	15,135	16,239	0	0	39,555	41,922
Kentucky	12,461	12,753	8,609	9,288	12,884	13,659	0	0	33,954	35,700
Mississippi	8,460	8,627	5,908	6,374	7,870	8,116	0	0	22,238	23,117
Tennessee	19,561	20,085	15,748	17,203	8,826	9,308	0	0	44,135	46,596
West South Central	101,371	100,647	88,422	90,762	91,127	92,567	89	95	281,009	284,071
Arkansas	8,417	8,686	5,089	5,525	7,963	8,360	0	0	21,469	22,572
Louisiana	14,026	13,986	10,810	11,485	17,034	17,112	5	6	41,874	42,588
Oklahoma	10,873	10,891	8,518	9,283	9,857	9,750	0	0	29,249	29,924
Texas	68,054	67,084	64,005	64,469	56,273	57,345	84	88	188,416	188,986
Mountain	48,219	45,137	44,611	46,527	40,266	40,359	83	93	133,179	132,114
Arizona	16,331	14,790	13,255	13,623	6,617	6,551	6	5	36,209	34,969
Colorado	9,496	8,918	9,397	9,917	7,857	7,696	50	58	26,800	26,589
Idaho	4,342	4,281	2,988	3,096	4,176	3,979	0	0	11,506	11,356
Montana	2,727	2,785	2,329	2,480	2,234	2,322	0	0	7,290	7,587
Nevada	5,926	5,467	5,604	5,616	5,740	6,086	3	4	17,273	17,174
New Mexico	3,369	3,133	4,147	4,354	4,434	4,151	0	0	11,950	11,637
Utah	4,546	4,267	5,200	5,619	4,597	4,434	25	26	14,368	14,345
Wyoming	1,482	1,495	1,690	1,822	4,610	5,139	0	0	7,782	8,456
Pacific Contiguous	69,862	68,604	70,804	75,960	38,921	39,457	391	440	179,979	184,460
California	40,789	39,457	49,734	53,265	21,979	21,579	328	380	112,830	114,681
Oregon	9,868	9,898	7,649	8,096	5,824	5,825	13	14	23,355	23,833
Washington	19,205	19,248	13,420	14,599	11,119	12,052	50	46	43,794	45,945
Pacific Noncontiguous	2,404	2,251	2,555	2,753	2,221	2,284	0	0	7,180	7,288
Alaska	1,083	1,007	1,296	1,342	626	592	0	0	3,005	2,941
Hawaii	1,321	1,244	1,259	1,411	1,595	1,692	0	0	4,175	4,347
U.S. Total	673,699	670,593	605,260	648,056	446,418	465,844	3,324	3,900	1,728,701	1,788,394

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

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

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	823	716	593	684	159	159	2	3	1,577	1,562
Connecticut	255	218	164	183	32	33	1	2	452	436
Maine	63	60	37	38	21	13	0	0	120	112
Massachusetts	345	300	269	334	64	71	1	1	680	707
New Hampshire	75	66	51	55	20	20	0	0	147	141
Rhode Island	52	46	47	48	9	9	0	0	108	103
Vermont	33	26	25	26	12	12	0	0	71	64
Middle Atlantic	1,886	1,689	1,523	1,603	365	385	30	36	3,804	3,713
New Jersey	458	422	415	415	56	55	2	2	932	894
New York	836	717	868	906	71	78	26	30	1,801	1,731
Pennsylvania	592	550	239	282	238	252	2	3	1,071	1,088
East North Central	2,366	1,964	1,511	1,547	942	1,031	2	3	4,822	4,546
Illinois	586	488	350	361	212	212	2	3	1,150	1,064
Indiana	365	317	215	218	215	250	0	0	795	785
Michigan	560	407	374	366	155	177	0	0	1,089	950
Ohio	555	508	354	382	209	237	0	0	1,118	1,127
Wisconsin	300	244	219	220	151	155	0	0	669	619
West North Central	1,249	1,089	870	909	543	581	0	0	2,662	2,580
Iowa	172	153	102	112	137	160	0	0	411	424
Kansas	192	168	141	146	58	65	0	0	392	379
Minnesota	278	229	211	209	125	133	0	0	615	571
Missouri	414	367	257	276	73	74	0	0	744	717
Nebraska	106	93	76	78	76	68	0	0	258	239
North Dakota	40	36	45	48	56	63	0	0	141	148
South Dakota	47	43	38	40	17	19	0	0	102	102
South Atlantic	4,065	4,033	2,350	2,614	656	751	7	9	7,078	7,407
Delaware	54	49	35	35	11	12	0	0	99	97
District of Columbia	25	25	61	80	1	1	2	3	90	109
Florida	1,432	1,470	730	830	93	111	0	1	2,255	2,411
Georgia	686	666	384	402	139	153	1	1	1,210	1,222
Maryland	303	296	215	241	22	23	3	4	542	563
North Carolina	594	593	344	382	124	144	0	0	1,062	1,119
South Carolina	366	365	185	208	122	136	0	0	672	709
Virginia	509	481	345	381	76	103	1	1	930	966
West Virginia	96	88	52	55	69	68	0	0	218	211
East South Central	1,196	1,203	803	880	411	460	0	0	2,410	2,543
Alabama	376	378	219	234	151	166	0	0	747	779
Kentucky	245	235	159	172	109	125	0	0	514	531
Mississippi	191	197	115	130	70	78	0	0	376	406
Tennessee	383	392	309	344	81	91	0	0	773	827
West South Central	2,494	2,345	1,329	1,389	773	872	1	1	4,597	4,607
Arkansas	160	155	85	93	80	90	0	0	325	338
Louisiana	279	286	172	194	133	158	0	0	584	639
Oklahoma	244	222	138	142	77	88	0	0	458	452
Texas	1,812	1,682	934	959	482	536	1	1	3,229	3,178
Mountain	1,245	1,099	824	859	469	506	1	1	2,539	2,466
Arizona	515	465	292	297	73	74	0	0	879	835
Colorado	243	195	179	186	100	102	1	1	523	484
Idaho	66	60	42	42	77	75	0	0	184	177
Montana	43	40	41	41	18	20	0	0	102	100
Nevada	167	159	79	88	65	92	0	0	311	339
New Mexico	92	75	82	85	39	38	0	0	214	199
Utah	95	82	83	89	50	51	0	0	229	223
Wyoming	24	24	27	31	47	54	0	0	97	108
Pacific Contiguous	1,994	1,723	2,005	1,948	833	726	6	7	4,839	4,403
California	1,592	1,358	1,711	1,634	685	566	5	5	3,994	3,565
Oregon	154	143	108	116	62	64	0	0	325	324
Washington	248	221	186	198	86	95	1	1	520	515
Pacific Noncontiguous	105	107	96	119	77	97	0	0	278	323
Alaska	33	31	38	43	18	16	0	0	89	90
Hawaii	72	76	58	76	59	81	0	0	189	233
U.S. Total	17,425	15,967	11,904	12,553	5,228	5,569	50	62	34,607	34,151

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	4,874	4,762	3,627	4,104	919	998	24	28	9,444	9,892
Connecticut	1,395	1,345	913	1,021	185	202	10	13	2,502	2,582
Maine	409	437	234	276	113	130	0	0	756	842
Massachusetts	2,105	2,047	1,781	2,015	384	415	12	12	4,282	4,488
New Hampshire	448	446	292	337	116	124	0	0	856	907
Rhode Island	311	309	264	304	49	55	2	3	626	670
Vermont	205	178	145	152	72	73	0	0	422	402
Middle Atlantic	9,850	9,803	8,088	8,881	2,169	2,330	176	218	20,283	21,233
New Jersey	2,044	2,063	2,041	2,253	309	339	12	14	4,406	4,669
New York	4,213	4,097	4,576	4,811	411	450	149	178	9,349	9,536
Pennsylvania	3,593	3,642	1,470	1,818	1,450	1,541	15	26	6,528	7,028
East North Central	12,079	11,751	8,262	8,949	5,421	6,257	22	25	25,784	26,981
Illinois	2,827	2,737	2,000	2,158	1,239	1,333	19	22	6,084	6,250
Indiana	1,910	1,945	1,148	1,237	1,266	1,510	1	1	4,325	4,693
Michigan	2,717	2,433	1,983	2,083	885	1,043	0	0	5,586	5,559
Ohio	2,993	3,072	1,947	2,216	1,211	1,481	1	2	6,152	6,771
Wisconsin	1,632	1,564	1,185	1,254	820	891	0	0	3,637	3,709
West North Central	6,019	5,964	4,428	4,725	2,992	3,117	2	2	13,441	13,808
Iowa	897	885	572	591	726	733	0	0	2,195	2,209
Kansas	792	782	706	747	348	390	0	0	1,846	1,919
Minnesota	1,462	1,443	1,077	1,155	714	786	1	1	3,254	3,385
Missouri	1,776	1,759	1,176	1,287	338	360	1	1	3,290	3,407
Nebraska	537	536	392	412	378	368	0	0	1,306	1,316
North Dakota	266	269	288	302	388	377	0	0	942	948
South Dakota	289	290	218	231	101	102	0	0	607	623
South Atlantic	20,061	20,607	12,923	14,239	3,850	4,238	48	54	36,883	39,139
Delaware	296	302	190	209	63	69	0	0	548	581
District of Columbia	142	160	400	472	9	8	15	16	566	657
Florida	6,682	6,832	3,900	4,367	551	615	3	4	11,135	11,818
Georgia	3,108	3,121	2,038	2,168	749	861	4	4	5,898	6,154
Maryland	1,705	1,804	1,253	1,438	127	142	19	21	3,103	3,406
North Carolina	3,141	3,265	1,896	2,045	730	786	1	1	5,768	6,097
South Carolina	1,797	1,824	986	1,058	693	768	0	0	3,476	3,650
Virginia	2,568	2,693	1,949	2,147	506	562	8	8	5,031	5,409
West Virginia	622	606	311	334	423	427	0	0	1,357	1,367
East South Central	6,278	6,427	4,324	4,661	2,446	2,714	0	0	13,048	13,802
Alabama	1,849	1,900	1,138	1,233	862	960	0	0	3,849	4,093
Kentucky	1,345	1,355	885	927	659	736	0	0	2,889	3,017
Mississippi	967	987	626	677	447	480	0	0	2,040	2,144
Tennessee	2,117	2,185	1,674	1,824	479	538	0	0	4,271	4,546
West South Central	11,390	11,255	6,962	7,311	4,553	4,873	6	6	22,911	23,445
Arkansas	862	846	436	481	435	490	0	0	1,733	1,817
Louisiana	1,297	1,322	932	1,018	790	896	0	1	3,019	3,237
Oklahoma	1,062	1,079	629	703	421	477	0	0	2,112	2,259
Texas	8,169	8,008	4,965	5,108	2,907	3,010	6	6	16,047	16,132
Mountain	5,676	5,343	4,193	4,404	2,394	2,501	8	9	12,272	12,256
Arizona	2,036	1,872	1,343	1,406	377	404	1	0	3,756	3,682
Colorado	1,155	1,084	947	999	556	558	4	5	2,663	2,647
Idaho	425	423	228	240	249	242	0	0	903	905
Montana	311	309	245	256	105	129	0	0	661	694
Nevada	691	658	421	437	291	336	0	0	1,404	1,432
New Mexico	424	392	410	425	237	228	0	0	1,071	1,045
Utah	472	440	436	465	265	262	3	3	1,175	1,170
Wyoming	162	165	163	176	313	341	0	0	638	682
Pacific Contiguous	11,124	10,497	10,001	10,305	3,760	3,575	36	38	24,921	24,416
California	8,191	7,581	8,115	8,305	2,882	2,633	30	32	19,217	18,551
Oregon	1,086	1,077	689	722	349	365	1	1	2,126	2,166
Washington	1,847	1,838	1,197	1,278	530	577	5	4	3,578	3,698
Pacific Noncontiguous	664	640	635	696	511	549	0	0	1,809	1,885
Alaska	245	226	257	268	104	101	0	0	605	595
Hawaii	419	414	378	428	407	448	0	0	1,204	1,290
U.S. Total	88,015	87,048	63,444	68,276	29,017	31,152	320	380	180,796	186,857

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

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

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

Source: U.S. Energy Information Administration, Form EIA-861M (formerly EIA-826), Monthly Electric Power Industry Report.

Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, June 2020 and 2019 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	20.47	21.20	15.39	16.35	12.38	13.11	7.23	8.91	17.16	17.73
Connecticut	21.73	23.10	16.51	17.60	13.03	13.85	10.67	16.39	18.66	19.52
Maine	16.91	18.18	12.64	12.40	8.53	9.24	--	--	13.28	14.26
Massachusetts	21.01	21.36	15.18	16.53	13.87	14.25	5.26	5.20	17.41	17.89
New Hampshire	19.00	20.34	15.26	15.65	12.72	12.66	--	--	16.46	16.88
Rhode Island	19.28	20.29	14.98	15.81	15.15	15.11	41.13	18.05	16.82	17.46
Vermont	19.67	17.52	16.96	16.16	11.16	10.96	--	--	16.58	15.25
Middle Atlantic	16.24	16.21	13.31	12.72	6.39	6.36	12.44	11.74	13.11	12.64
New Jersey	15.85	15.97	13.50	12.96	10.52	10.78	9.26	9.55	14.28	14.02
New York	19.11	18.52	15.70	14.82	5.59	5.31	13.52	12.95	15.85	14.82
Pennsylvania	13.61	14.08	8.45	8.58	6.08	6.18	7.72	6.91	9.63	9.60
East North Central	13.55	13.71	10.51	10.28	6.92	6.77	6.61	7.89	10.60	10.18
Illinois	12.72	13.24	9.25	8.94	6.48	6.07	6.32	7.73	9.84	9.46
Indiana	12.61	12.61	11.01	10.81	7.06	7.34	10.38	11.28	10.07	9.89
Michigan	16.72	16.08	12.32	11.63	8.18	7.10	12.21	10.59	13.16	11.62
Ohio	12.06	12.71	9.48	9.80	5.88	6.16	7.05	7.31	9.40	9.60
Wisconsin	15.00	15.32	11.68	11.26	8.14	7.82	17.46	15.03	11.69	11.19
West North Central	12.99	13.29	10.62	10.68	7.71	7.95	10.02	10.93	10.71	10.74
Iowa	13.50	14.57	10.40	11.52	6.84	7.92	--	--	9.65	10.51
Kansas	12.88	13.30	10.73	10.75	7.40	7.48	--	--	10.90	10.85
Minnesota	14.20	13.90	11.85	11.10	9.15	8.01	8.88	10.44	12.03	11.00
Missouri	12.74	12.82	10.35	10.60	7.43	7.82	10.84	11.48	11.08	11.18
Nebraska	11.42	12.43	9.74	9.77	7.81	7.97	--	--	9.62	9.97
North Dakota	12.09	12.47	9.76	9.68	7.87	8.61	--	--	9.38	9.70
South Dakota	12.18	12.79	9.65	10.02	8.12	7.96	--	--	10.30	10.48
South Atlantic	12.03	12.24	9.09	9.34	6.29	6.49	8.47	8.09	10.09	10.20
Delaware	13.22	12.50	9.57	9.10	6.90	7.25	--	--	10.74	10.20
District of Columbia	12.78	12.10	12.05	11.64	7.98	8.12	10.39	10.08	12.12	11.63
Florida	11.53	12.02	9.04	9.49	7.15	7.79	7.57	8.27	10.35	10.76
Georgia	12.71	12.46	10.00	9.59	5.71	5.84	6.20	6.23	10.35	10.04
Maryland	12.84	13.26	9.57	9.83	7.59	7.61	7.83	7.34	11.01	11.19
North Carolina	11.45	11.59	8.73	8.74	6.40	6.38	8.07	8.25	9.60	9.53
South Carolina	12.58	12.81	10.25	10.46	6.03	6.25	--	--	9.99	10.10
Virginia	12.38	12.56	7.61	8.35	6.47	6.89	9.99	8.53	9.47	9.76
West Virginia	11.98	11.68	9.34	8.93	6.22	6.04	--	--	8.80	8.46
East South Central	11.52	11.62	10.82	10.75	5.61	5.80	--	--	9.59	9.61
Alabama	12.93	12.77	11.84	11.48	6.22	6.05	--	--	10.38	10.05
Kentucky	10.85	11.15	10.15	10.33	5.11	5.55	--	--	8.61	8.83
Mississippi	11.21	11.40	10.25	10.35	5.51	5.66	--	--	9.18	9.28
Tennessee	10.92	11.05	10.75	10.67	5.41	5.86	--	--	9.82	9.93
West South Central	11.38	11.39	7.88	7.99	5.06	5.32	6.66	6.61	8.50	8.47
Arkansas	10.67	10.35	8.97	8.97	6.21	6.17	10.73	11.94	8.70	8.46
Louisiana	9.50	9.66	8.42	8.68	4.70	5.24	7.82	9.65	7.48	7.77
Oklahoma	10.24	10.50	7.97	8.33	4.57	5.06	--	--	7.92	8.13
Texas	11.99	12.00	7.70	7.73	5.09	5.27	6.57	6.38	8.79	8.68
Mountain	12.27	12.31	10.22	10.15	6.57	6.64	9.59	9.71	10.01	9.85
Arizona	12.77	12.84	11.02	10.93	6.32	6.37	10.97	11.08	11.23	11.15
Colorado	12.96	12.84	11.47	10.96	7.49	7.63	8.89	9.16	10.94	10.61
Idaho	10.50	10.29	8.47	8.12	7.07	7.10	--	--	8.36	8.21
Montana	12.00	12.06	10.88	10.67	4.67	4.62	--	--	9.06	8.81
Nevada	11.19	11.80	7.35	8.21	6.59	7.12	8.76	8.80	8.76	9.14
New Mexico	13.48	13.14	10.90	10.55	5.46	5.31	--	--	9.90	9.45
Utah	10.91	10.74	9.19	9.19	6.34	6.35	10.66	10.62	8.90	8.76
Wyoming	11.81	11.88	10.29	10.28	6.91	6.56	--	--	8.54	8.19
Pacific Contiguous	16.75	17.21	16.44	15.62	11.87	10.54	10.10	8.78	15.52	14.95
California	19.79	20.87	19.15	18.39	16.17	15.04	10.09	8.67	18.78	18.54
Oregon	11.32	11.27	8.96	8.74	6.18	6.11	9.53	9.31	9.08	8.87
Washington	9.92	9.90	9.05	8.75	4.83	4.59	10.37	9.51	8.21	7.84
Pacific Noncontiguous	27.16	29.26	23.97	25.56	21.06	23.80	--	--	24.13	26.07
Alaska	23.85	23.51	20.45	20.45	17.55	17.06	--	--	20.89	20.62
Hawaii	29.03	32.45	27.04	29.72	22.40	25.90	--	--	26.03	29.04
U.S. Total	13.28	13.36	10.96	10.88	6.95	6.91	10.44	10.06	10.97	10.80

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 June 2020 and 2019 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD	June 2020 YTD	June 2019 YTD
New England	21.55	21.54	15.96	16.54	12.69	13.17	9.88	10.15	17.88	18.06
Connecticut	22.93	22.67	17.14	17.51	13.65	13.97	14.47	15.50	19.50	19.41
Maine	16.78	17.82	12.66	13.07	8.94	9.72	--	--	13.62	14.28
Massachusetts	22.53	22.51	15.97	16.67	13.93	14.53	7.33	6.79	18.29	18.54
New Hampshire	19.46	20.30	15.47	16.20	12.95	13.33	--	--	16.84	17.42
Rhode Island	22.26	22.32	16.13	17.39	15.61	16.31	20.85	19.00	18.64	19.25
Vermont	19.52	17.04	16.48	15.92	10.95	10.76	--	--	16.32	15.05
Middle Atlantic	15.71	15.57	12.08	11.86	6.35	6.62	11.13	11.16	12.26	12.14
New Jersey	15.78	16.14	12.33	12.37	9.95	10.33	8.77	8.80	13.45	13.56
New York	17.87	17.51	13.73	13.40	5.36	5.57	11.96	12.29	14.21	13.86
Pennsylvania	13.73	13.60	8.61	8.76	6.19	6.47	7.46	7.52	9.76	9.80
East North Central	13.40	13.33	10.15	10.21	6.64	6.93	6.85	7.27	10.17	10.13
Illinois	13.11	13.05	9.01	8.99	6.44	6.52	6.71	7.10	9.61	9.51
Indiana	12.27	12.39	10.86	10.83	6.81	7.39	10.50	11.07	9.67	9.87
Michigan	16.16	15.39	11.66	11.34	7.51	7.23	11.11	10.39	12.25	11.44
Ohio	11.91	12.30	9.33	9.90	5.72	6.37	6.35	7.14	9.15	9.59
Wisconsin	14.79	14.60	11.00	10.96	7.53	7.62	14.61	13.88	11.12	10.96
West North Central	11.73	11.58	9.56	9.49	7.12	7.24	8.10	8.46	9.62	9.56
Iowa	12.67	12.51	10.15	9.90	6.26	6.36	--	--	9.03	8.99
Kansas	12.69	12.56	10.32	10.09	7.11	7.33	--	--	10.27	10.12
Minnesota	13.17	13.16	10.42	10.42	7.82	7.81	9.27	9.74	10.64	10.54
Missouri	10.64	10.42	8.66	8.70	6.31	6.52	7.10	7.10	9.24	9.16
Nebraska	10.63	10.53	8.99	8.88	7.53	7.59	--	--	9.06	9.03
North Dakota	10.08	10.01	8.86	8.89	8.16	8.44	--	--	8.85	8.98
South Dakota	11.40	11.19	9.33	9.30	7.75	7.72	--	--	9.85	9.74
South Atlantic	11.80	11.93	9.14	9.40	6.02	6.25	7.91	8.03	9.81	9.97
Delaware	12.89	12.66	9.64	9.91	6.96	7.63	--	--	10.62	10.74
District of Columbia	12.68	13.26	12.06	12.24	8.14	8.36	9.70	10.36	12.04	12.34
Florida	11.33	11.89	9.00	9.54	6.98	7.69	7.63	8.25	10.10	10.62
Georgia	11.58	11.44	9.80	9.65	5.22	5.54	4.81	5.05	9.50	9.41
Maryland	13.27	13.42	9.93	10.31	7.71	7.82	7.51	7.50	11.34	11.55
North Carolina	11.52	11.54	8.70	8.72	5.99	6.04	7.95	8.26	9.42	9.41
South Carolina	12.59	12.56	10.23	10.21	5.70	5.83	--	--	9.64	9.59
Virginia	12.23	11.94	7.94	8.32	6.53	6.94	8.67	8.19	9.42	9.57
West Virginia	11.53	10.86	9.35	9.05	6.03	5.97	--	--	8.62	8.33
East South Central	11.40	11.38	10.79	10.70	5.47	5.74	--	--	9.33	9.37
Alabama	12.66	12.66	11.59	11.55	5.70	5.91	--	--	9.73	9.76
Kentucky	10.79	10.62	10.28	9.98	5.11	5.39	--	--	8.51	8.45
Mississippi	11.43	11.44	10.60	10.62	5.67	5.92	--	--	9.17	9.28
Tennessee	10.82	10.88	10.63	10.60	5.42	5.77	--	--	9.68	9.76
West South Central	11.24	11.18	7.87	8.06	5.00	5.26	6.74	6.69	8.15	8.25
Arkansas	10.25	9.74	8.57	8.71	5.46	5.86	11.37	11.80	8.07	8.05
Louisiana	9.25	9.45	8.62	8.87	4.64	5.24	8.48	9.32	7.21	7.60
Oklahoma	9.76	9.91	7.39	7.57	4.27	4.89	--	--	7.22	7.55
Texas	12.00	11.94	7.76	7.92	5.17	5.25	6.63	6.49	8.52	8.54
Mountain	11.77	11.84	9.40	9.47	5.95	6.20	9.27	9.39	9.21	9.28
Arizona	12.46	12.65	10.13	10.32	5.70	6.17	9.15	9.64	10.37	10.53
Colorado	12.16	12.16	10.08	10.07	7.08	7.26	8.57	8.96	9.93	9.95
Idaho	9.80	9.88	7.64	7.74	5.96	6.09	--	--	7.84	7.97
Montana	11.40	11.11	10.52	10.31	4.71	5.54	--	--	9.07	9.14
Nevada	11.67	12.04	7.51	7.79	5.07	5.52	8.29	7.74	8.13	8.34
New Mexico	12.58	12.51	9.89	9.77	5.35	5.48	--	--	8.96	8.98
Utah	10.38	10.30	8.38	8.28	5.76	5.92	10.79	10.58	8.18	8.16
Wyoming	10.95	11.01	9.65	9.69	6.79	6.63	--	--	8.20	8.07
Pacific Contiguous	15.92	15.30	14.12	13.57	9.66	9.06	9.18	8.61	13.85	13.24
California	20.08	19.21	16.32	15.59	13.11	12.20	9.06	8.49	17.03	16.18
Oregon	11.01	10.88	9.01	8.92	5.99	6.27	9.39	9.14	9.10	9.09
Washington	9.62	9.55	8.92	8.76	4.76	4.79	9.90	9.39	8.17	8.05
Pacific Noncontiguous	27.61	28.41	24.83	25.29	22.99	24.05	--	--	25.19	25.86
Alaska	22.62	22.44	19.79	19.98	16.57	17.08	--	--	20.14	20.24
Hawaii	31.70	33.25	30.03	30.34	25.51	26.48	--	--	28.83	29.67
U.S. Total	13.06	12.98	10.48	10.54	6.50	6.69	9.63	9.75	10.46	10.45

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 - June 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
May	136,518,264	18,708,151	942,835	83	156,169,333
June	137,060,642	18,779,952	964,619	83	156,805,296
Rolling 12 Months Ending in June					
2019	134,533,893	18,614,741	872,197	82	154,020,913
2020	136,050,557	18,702,733	936,775	82	155,690,147

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:
June 2020 and 2019**

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	6,483,399	6,406,603	907,486	899,820	19,397	19,550	6	6	7,410,288	7,325,979
Connecticut	1,522,613	1,510,529	155,458	154,330	4,093	4,147	3	3	1,682,167	1,669,009
Maine	730,613	697,277	99,395	97,112	2,738	2,725	0	0	832,746	797,114
Massachusetts	2,829,251	2,802,817	423,224	420,708	7,568	7,621	2	2	3,260,045	3,231,148
New Hampshire	634,402	628,367	109,436	108,805	3,130	3,149	0	0	746,968	740,321
Rhode Island	447,620	449,537	60,590	61,193	1,727	1,767	1	1	509,938	512,498
Vermont	318,900	318,076	59,383	57,672	141	141	0	0	378,424	375,889
Middle Atlantic	16,331,252	16,250,032	2,388,526	2,363,069	33,112	32,805	19	20	18,752,909	18,645,926
New Jersey	3,623,941	3,595,535	527,079	521,190	11,595	11,445	6	7	4,162,621	4,128,177
New York	7,249,863	7,233,919	1,139,783	1,124,027	6,432	6,569	8	8	8,396,086	8,364,523
Pennsylvania	5,457,448	5,420,578	721,664	717,852	15,085	14,791	5	5	6,194,202	6,153,226
East North Central	20,559,086	20,367,712	2,537,281	2,520,562	47,399	43,244	11	10	23,143,777	22,931,528
Illinois	5,370,184	5,331,694	625,824	620,573	3,986	3,982	3	3	5,999,997	5,956,252
Indiana	2,920,776	2,887,680	361,677	358,515	15,914	15,158	1	1	3,298,368	3,261,354
Michigan	4,456,407	4,405,447	552,667	550,656	NM	NM	2	2	5,014,698	4,961,753
Ohio	5,046,464	4,998,251	634,293	630,382	16,874	13,424	3	2	5,697,634	5,642,059
Wisconsin	2,765,255	2,744,640	362,820	360,436	NM	NM	2	2	3,133,080	3,110,110
West North Central	9,737,427	9,627,494	1,486,689	1,475,271	117,185	116,708	3	3	11,341,304	11,219,476
Iowa	1,424,274	1,406,108	249,120	246,464	NM	NM	0	0	1,680,303	1,659,521
Kansas	1,300,152	1,288,316	237,677	235,901	25,494	25,844	0	0	1,563,323	1,550,061
Minnesota	2,468,009	2,436,492	296,127	293,957	NM	NM	1	1	2,772,704	2,738,949
Missouri	2,866,925	2,835,406	388,934	386,147	6,493	6,581	2	2	3,262,354	3,228,136
Nebraska	880,481	867,251	163,481	162,141	57,537	56,816	0	0	1,101,499	1,086,208
North Dakota	385,154	386,418	75,264	75,125	9,023	8,905	0	0	469,441	470,448
South Dakota	412,432	407,503	76,086	75,536	NM	NM	0	0	491,680	486,153
South Atlantic	28,824,920	28,359,160	3,862,913	3,826,251	79,022	79,357	13	13	32,766,868	32,264,781
Delaware	442,273	435,002	55,998	55,435	560	569	0	0	498,831	491,006
District of Columbia	290,568	282,015	26,708	26,463	1	1	3	3	317,280	308,482
Florida	9,669,007	9,522,167	1,258,839	1,247,695	20,587	20,650	2	2	10,948,435	10,790,514
Georgia	4,537,883	4,452,894	592,817	587,424	19,871	19,946	1	1	5,150,572	5,060,265
Maryland	2,379,430	2,352,352	255,926	255,339	8,803	8,791	5	5	2,644,164	2,616,487
North Carolina	4,731,682	4,648,177	712,767	704,898	9,779	9,847	1	1	5,454,229	5,362,923
South Carolina	2,388,720	2,339,272	377,120	371,200	4,252	4,250	0	0	2,770,092	2,714,722
Virginia	3,523,555	3,471,635	436,229	432,723	3,835	3,837	1	1	3,963,620	3,908,196
West Virginia	861,802	855,646	146,509	145,074	11,334	11,466	0	0	1,019,645	1,012,186
East South Central	8,679,294	8,551,511	1,425,731	1,414,092	22,370	22,385	0	0	10,127,395	9,987,988
Alabama	2,314,926	2,280,107	373,781	370,402	8,222	8,245	0	0	2,696,929	2,658,754
Kentucky	2,040,545	2,015,832	310,836	307,734	5,325	5,453	0	0	2,356,706	2,329,019
Mississippi	1,351,127	1,327,769	239,927	239,551	7,954	7,836	0	0	1,599,008	1,575,156
Tennessee	2,972,696	2,927,803	501,187	496,405	869	851	0	0	3,474,752	3,425,059
West South Central	16,706,506	16,365,490	2,245,455	2,229,044	343,628	312,786	6	6	19,295,595	18,907,326
Arkansas	1,429,423	1,407,516	195,598	193,642	35,626	35,627	2	2	1,660,649	1,636,787
Louisiana	2,147,265	2,100,439	297,544	292,958	18,648	18,466	1	1	2,463,458	2,411,864
Oklahoma	1,829,809	1,803,583	290,405	286,197	19,220	19,626	0	0	2,139,434	2,109,406
Texas	11,300,009	11,053,952	1,461,908	1,456,247	270,134	239,067	3	3	13,032,054	12,749,269
Mountain	10,131,843	9,953,998	1,426,261	1,413,362	92,279	91,000	5	5	11,650,388	11,458,365
Arizona	2,884,268	2,828,615	329,779	327,659	NM	6,411	2	2	3,220,001	3,162,687
Colorado	2,399,124	2,363,129	372,368	368,473	NM	14,670	1	1	2,786,452	2,746,273
Idaho	779,068	759,269	114,373	112,062	29,209	28,990	0	0	922,650	900,321
Montana	526,076	518,119	113,601	112,179	NM	NM	0	0	649,392	639,473
Nevada	1,225,325	1,201,984	168,509	166,076	NM	NM	1	1	1,397,330	1,371,561
New Mexico	919,610	910,156	140,688	140,904	NM	8,653	0	0	1,068,631	1,059,713
Utah	1,119,344	1,096,385	127,653	126,686	10,698	9,672	1	1	1,257,696	1,232,744
Wyoming	279,028	276,341	59,290	59,323	9,918	9,929	0	0	348,236	345,593
Pacific Contiguous	18,873,872	18,522,983	2,384,483	2,318,816	207,973	200,768	20	19	21,466,348	21,042,586
California	13,917,176	13,648,752	1,738,535	1,680,304	151,325	144,467	13	12	15,807,049	15,473,535
Oregon	1,805,024	1,776,580	243,532	240,948	27,088	26,972	2	2	2,075,646	2,044,502
Washington	3,151,672	3,097,651	402,416	397,564	29,560	29,329	5	5	3,583,653	3,524,549
Pacific Noncontiguous	733,043	728,785	115,127	114,669	NM	NM	0	0	850,424	845,696
Alaska	292,748	291,070	55,281	54,782	NM	NM	0	0	349,464	347,281
Hawaii	440,295	437,715	59,846	59,887	819	813	0	0	500,960	498,415
U.S. Total	137,060,642	135,133,768	18,779,952	18,574,956	964,619	920,845	83	82	156,805,296	154,629,651

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), May 2020 to June 2020

Technology	Capacity Source	As of End of May 2020	Activity During June 2020 as Reported to EIA		As of End of June 2020	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
		Total In-Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	Planned Capacity Additions		Reductions		Planned Net Change		Capacity	
									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	106,934.4	712.3	3.2	107,643.5	709.1	4,088.3	9,561.1	999.1	20,843.3	0.0	0.0	999.1	20,843.3	108,642.6	128,486.8
..... 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	106,963.7	712.3	3.2	107,672.8	709.1	4,088.3	9,561.1	999.1	20,855.3	0.0	0.0	999.1	20,855.3	108,671.9	128,528.1
..... Solar Photovoltaic	Utility Scale Facilities	38,405.6	1,304.6	5.9	39,704.3	1,298.7	4,133.1	7,877.7	1,108.2	13,139.7	0.0	0.0	1,108.2	13,139.7	40,812.5	52,844.0
..... Solar Thermal without Energy Storage	Utility Scale Facilities	1,352.5	0.0	0.0	1,352.5	0.0	0.0	0.0	0.0	200.0	0.0	0.0	0.0	200.0	1,352.5	1,552.5
..... 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	40,163.7	1,304.6	5.9	41,462.4	1,298.7	4,133.3	7,877.9	1,108.2	13,339.7	0.0	0.0	1,108.2	13,339.7	42,570.6	54,802.1
..... Conventional Hydroelectric	Utility Scale Facilities	79,763.3	35.9	117.0	79,682.2	-81.1	-64.1	-196.8	26.1	265.0	0.0	3.4	26.1	261.6	79,708.3	79,943.8
..... Wood/Wood Waste Biomass	Utility Scale Facilities	8,372.4	0.0	0.1	8,372.3	-0.1	-116.6	-139.9	0.0	0.0	0.0	20.0	0.0	-20.0	8,372.3	8,352.3
..... Landfill Gas	Utility Scale Facilities	1,977.2	0.0	64.9	1,912.3	-64.9	-123.6	-136.7	0.0	3.4	0.0	0.0	0.0	3.4	1,912.3	1,915.7
..... Municipal Solid Waste	Utility Scale Facilities	2,125.7	0.0	0.0	2,125.7	0.0	-63.6	-63.6	0.0	0.0	0.0	0.0	0.0	0.0	2,125.7	2,125.7
..... Other Waste Biomass	Utility Scale Facilities	620.8	3.0	0.0	623.8	3.0	-110.2	-111.0	0.0	52.8	0.0	0.0	0.0	52.8	623.8	676.6
..... Biomass Sources Subtotal	Utility Scale Facilities	13,096.1	3.0	65.0	13,034.1	-62.0	-414.0	-451.2	0.0	56.2	0.0	20.0	0.0	36.2	13,034.1	13,070.3
..... Geothermal	Utility Scale Facilities	2,555.4	0.0	0.0	2,555.4	0.0	96.3	96.3	0.0	0.0	0.0	0.0	0.0	0.0	2,555.4	2,555.4
... Renewable Sources Subtotal	Utility Scale Facilities	242,542.2	2,055.8	191.1	244,406.9	1,864.7	7,839.8	16,887.3	2,133.4	34,516.2	0.0	23.4	2,133.4	34,492.8	246,540.3	278,899.7
..... Natural Gas Fired Combined Cycle	Utility Scale Facilities	276,012.1	225.2	257.4	275,979.9	-32.2	5,443.3	7,041.8	23.1	3,565.5	9.0	65.0	14.1	3,500.5	275,994.0	279,480.4
..... Natural Gas Fired Combustion Turbine	Utility Scale Facilities	129,264.3	217.5	458.7	129,023.1	-241.2	146.3	176.0	91.8	1,841.1	31.0	74.0	60.8	1,767.1	129,083.9	130,790.2
..... Natural Gas Steam Turbine	Utility Scale Facilities	70,285.4	532.5	81.3	70,736.6	451.2	-1,215.7	-2,974.5	0.0	18.2	23.3	319.4	-23.3	-301.2	70,713.3	70,435.4
..... Natural Gas Internal Combustion Engine	Utility Scale Facilities	5,158.6	0.0	8.4	5,150.2	-8.4	218.9	244.8	5.4	90.6	0.0	20.0	5.4	70.6	5,155.6	5,220.8
..... 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	110.0	110.0	
..... Other Natural Gas	Utility Scale Facilities	238.5	0.0	2.8	235.7	-2.8	57.9	60.7	0.2	37.4	0.0	0.0	0.2	37.4	235.9	273.1
..... Natural Gas Subtotal	Utility Scale Facilities	481,068.9	975.2	808.6	481,235.5	166.6	4,650.7	4,548.8	120.5	5,552.8	63.3	478.4	57.2	5,074.4	481,292.7	486,309.9
..... Conventional Steam Coal	Utility Scale Facilities	223,769.1	22.6	988.1	222,803.6	-965.5	-5,681.8	-12,428.3	0.0	39.0	0.0	5,993.4	0.0	-5,954.4	222,803.6	216,849.2
..... 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	224,525.1	22.6	988.1	223,559.6	-965.5	-5,681.8	-12,428.3	0.0	39.0	0.0	5,993.4	0.0	-5,954.4	223,559.6	217,605.2
..... Petroleum Coke	Utility Scale Facilities	1,444.9	0.0	60.0	1,384.9	-60.0	-80.3	-147.3	0.0	0.0	0.0	0.0	0.0	0.0	1,384.9	1,384.9
..... Petroleum Liquids	Utility Scale Facilities	30,225.2	44.4	508.8	29,760.8	-464.4	-871.5	-896.2	5.6	10.7	0.0	41.2	5.6	-30.5	29,766.4	29,730.3
..... Other Gases	Utility Scale Facilities	2,542.5	0.0	20.5	2,522.0	-20.5	-26.9	-26.9	0.0	0.0	0.0	0.0	0.0	0.0	2,522.0	2,522.0
... Fossil Fuels Subtotal	Utility Scale Facilities	739,806.6	1,042.2	2,386.0	738,462.8	-1,343.8	-2,009.8	-8,949.9	126.1	5,602.5	63.3	6,513.0	62.8	-910.5	738,525.6	737,552.3
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,898.9	1.2	199.8	22,700.3	-198.6	-177.9	-177.9	0.0	280.3	0.0	0.0	0.0	280.3	22,700.3	22,980.6
..... 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	47.0	47.0	
..... Batteries	Utility Scale Facilities	1,049.8	9.6	0.0	1,059.4	9.6	44.2	90.5	33.8	1,664.2	0.0	0.0	33.8	1,664.2	1,093.2	2,723.6
..... Other Energy Storage	Utility Scale Facilities	1.9	0.0	1.9	0.0	-1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
... Energy Storage Subtotal	Utility Scale Facilities	23,997.6	10.8	201.7	23,806.7	-190.9	-133.7	-87.4	33.8	1,944.5	0.0	0.0	33.8	1,944.5	23,840.5	25,751.2
... Nuclear	Utility Scale Facilities	97,102.9	18.0	0.0	97,120.9	18.0	-949.3	-1,752.1	0.0	20.0	0.0	1,639.3	0.0	-1,619.3	97,120.9	95,501.6
... All Other	Utility Scale Facilities	1,544.6	0.0	0.0	1,544.6	0.0	49.1	97.0	0.0	0.0	0.0	0.0	0.0	0.0	1,544.6	1,544.6
TOTAL	UTILITY SCALE FACILITIES	1,104,993.9	3,126.8	2,778.8	1,105,341.9	348.0	4,796.1	6,194.9	2,293.3	42,083.2	63.3	8,175.7	2,230.0	33,907.5	1,107,571.9	1,139,249.4
..... Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	24,807.4			25,191.9	384.5	1,981.1	4,054.7								
..... Estimated Total Solar Photovoltaic	All Facilities	63,213.0			64,896.2	1,683.2	6,114.2	11,932.4								
... Estimated Total Solar	All Facilities	64,971.1			66,654.3	1,683.2	6,114.4	11,932.6								

NOTES:
 Planned Capacity Additions reflect plans to begin operating new units and plans to uprate existing units.
 Planned Capacity Reductions reflect plans to retire or derate existing units.
 Actual Capacity Additions reflect new units, uprates to existing units, corrections to previously reported capacities, and additions not previously reported.
 Actual Capacity Reductions reflect retirements of and derates to existing units, corrections to previously reported capacities, and reductions not previously reported.
 Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
 Estimated small scale solar photovoltaic capacity is based on data from Form EIA-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 - June 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
May	38,405.6	24,807.4	63,213.0
June	39,704.3	25,191.9	64,896.2

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 - June 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
May	15,379.5	7,537.0	1,890.8	24,807.4
June	15,581.7	7,678.9	1,931.3	25,191.9

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, June 2020 and 2019 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	6,055.2	5,884.9	24,215.7	24,201.0	1,797.4	1,797.4	75.8	42.8	3,323.5	3,323.5	48.0	48.0	35,515.6	35,297.6
Connecticut	462.7	420.8	7,871.2	7,849.7	29.4	29.4	1.6	1.6	2,073.1	2,073.1	26.0	26.0	10,464.0	10,400.6
Maine	2,230.5	2,290.5	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	4,807.5
Massachusetts	1,525.3	1,427.3	9,574.6	9,605.0	1,768.0	1,768.0	47.1	22.0	0.0	0.0	0.0	0.0	12,915.0	12,822.3
New Hampshire	956.9	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	4,497.2	4,468.4
Rhode Island	195.1	150.2	1,835.1	1,832.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,030.2	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	11,577.7	11,447.0	74,300.4	72,983.2	3,383.3	3,380.6	147.5	143.5	16,940.5	18,697.9	11.2	11.2	106,360.6	106,663.4
New Jersey	1,135.0	1,062.0	12,241.5	12,157.3	420.0	420.0	42.1	42.1	3,467.1	3,500.2	11.2	11.2	17,316.9	17,192.8
New York	7,532.8	7,523.6	27,062.9	26,910.7	1,411.3	1,408.6	57.0	53.0	4,380.2	5,400.7	0.0	0.0	40,444.2	41,296.6
Pennsylvania	2,909.9	2,861.4	34,996.0	33,915.2	1,552.0	1,552.0	48.4	48.4	9,093.2	9,797.0	0.0	0.0	48,599.5	48,174.0
East North Central	14,016.7	12,897.0	108,109.0	111,475.5	2,249.0	2,231.0	194.7	189.7	19,007.1	19,001.8	187.1	187.1	143,763.6	145,982.1
Illinois	5,765.5	4,966.6	27,059.7	29,071.5	0.0	0.0	132.7	132.7	11,582.4	11,582.4	78.0	78.0	44,618.3	45,831.2
Indiana	2,695.9	2,658.0	23,850.8	23,905.6	0.0	0.0	28.0	23.0	0.0	0.0	88.0	88.0	26,662.7	26,674.6
Michigan	3,233.7	2,993.1	19,996.6	20,195.8	2,249.0	2,231.0	1.0	1.0	4,089.6	4,089.6	0.0	0.0	29,569.9	29,510.5
Ohio	1,195.7	1,058.3	23,697.6	25,241.3	0.0	0.0	33.0	33.0	2,134.0	2,134.0	0.0	0.0	27,060.3	28,466.6
Wisconsin	1,125.9	1,221.0	13,504.3	13,061.3	0.0	0.0	0.0	0.0	1,201.1	1,195.8	21.1	21.1	15,852.4	15,499.2
West North Central	34,755.0	30,149.1	59,019.8	59,303.2	657.0	657.0	20.1	20.1	5,443.4	5,443.4	22.8	22.8	99,918.1	95,595.6
Iowa	10,685.6	8,970.1	9,832.6	9,808.2	0.0	0.0	1.1	1.1	601.4	601.4	0.0	0.0	21,120.7	19,380.8
Kansas	6,575.5	5,884.0	8,846.1	9,024.8	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	16,647.4	16,134.6
Minnesota	5,550.2	5,268.7	10,386.9	10,271.5	0.0	0.0	16.0	16.0	1,657.0	1,657.0	16.7	16.7	17,626.8	17,229.9
Missouri	1,821.0	1,579.0	17,453.6	17,672.0	657.0	657.0	2.2	2.2	1,190.0	1,190.0	0.0	0.0	21,123.8	21,100.2
Nebraska	2,729.5	2,332.9	6,196.3	6,201.8	0.0	0.0	0.0	0.0	770.0	770.0	0.0	0.0	9,695.8	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	1,702.9	1,691.3	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	4,898.6	4,168.9
South Atlantic	24,268.9	20,726.4	160,844.2	162,206.3	7,906.4	7,905.2	76.5	76.5	24,706.6	24,706.6	468.9	408.7	218,271.5	216,029.7
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	18.9	20.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	35.4
Florida	4,637.3	3,211.2	53,486.2	52,981.0	0.0	0.0	14.0	14.0	3,626.0	3,626.0	312.9	348.7	62,076.4	60,180.9
Georgia	4,824.1	4,032.6	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	36,850.3	37,011.3
Maryland	1,250.5	1,206.4	11,300.2	11,808.4	0.0	0.0	7.0	7.0	1,707.8	1,725.8	6.0	6.0	14,271.5	14,753.6
North Carolina	7,377.5	6,857.4	22,192.8	22,011.5	86.0	86.0	1.0	1.0	5,149.6	5,149.6	54.0	54.0	34,860.9	34,159.5
South Carolina	2,755.7	2,257.5	11,764.1	12,168.3	2,716.0	2,716.0	4.0	4.0	6,594.2	6,576.2	0.0	0.0	23,834.0	23,722.0
Virginia	2,266.0	2,064.7	18,917.7	19,047.8	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	96.0	0.0	28,088.7	27,921.5
West Virginia	1,086.5	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	14,873.9	14,867.7
East South Central	8,911.2	8,908.3	61,431.4	62,692.6	1,616.3	1,616.3	1.0	1.0	11,449.1	11,449.1	1.4	1.4	83,410.4	84,668.7
Alabama	4,119.0	4,180.0	19,635.1	19,552.3	0.0	0.0	1.0	1.0	5,525.4	5,525.4	0.0	0.0	29,280.5	29,258.7
Kentucky	1,247.6	1,245.2	16,877.1	18,290.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,124.7	19,535.5
Mississippi	520.5	463.0	12,676.9	12,659.7	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	14,599.8	14,525.1
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	45,100.0	40,458.1	140,081.2	140,130.1	286.0	286.0	161.5	119.7	8,910.7	8,910.7	548.6	512.5	195,088.0	190,417.1
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	615.2	615.5	22,486.2	21,005.5	0.0	0.0	0.5	0.5	2,132.9	2,132.9	329.6	288.5	25,564.4	24,042.9
Oklahoma	9,139.0	9,041.0	17,978.6	18,155.1	258.0	258.0	10.0	0.0	0.0	0.0	0.0	0.0	27,385.6	27,454.1
Texas	33,703.1	29,104.5	88,335.4	89,727.1	0.0	0.0	139.0	119.2	4,960.0	4,960.0	219.0	224.0	127,356.5	124,134.8
Mountain	28,959.3	27,452.2	59,549.4	62,589.2	778.8	778.8	54.3	56.1	3,937.0	3,937.0	123.7	123.0	93,402.5	94,936.3
Arizona	5,337.0	5,102.9	17,505.7	19,727.8	216.3	216.3	42.0	42.0	3,937.0	3,937.0	0.0	0.0	27,038.0	29,026.0
Colorado	5,143.1	4,961.2	10,932.9	11,063.0	562.5	562.5	10.5	10.5	0.0	0.0	9.1	9.1	16,658.1	16,606.3
Idaho	4,070.0	4,071.9	1,127.1	1,127.1	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	5,211.9	5,213.8
Montana	3,673.9	3,574.6	2,125.1	2,744.9	0.0	0.0	0.0	0.0	0.0	0.0	40.0	40.0	5,839.0	6,359.5
Nevada	4,109.7	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	11,937.8	11,586.9
New Mexico	2,866.6	2,493.7	5,964.4	5,956.3	0.0	0.0	1.8	3.6	0.0	0.0	0.7	0.0	8,833.5	8,453.6
Utah	1,648.0	1,602.7	7,303.3	7,374.2	0.0	0.0	0.0	0.0	0.0	0.0	40.2	40.2	8,991.5	9,017.1
Wyoming	2,111.0	1,886.4	6,769.3	6,774.3	0.0	0.0	0.0	0.0	0.0	0.0	12.4	12.4	8,892.7	8,673.1
Pacific Contiguous	69,520.0	68,386.4	46,548.4	47,602.0	4,026.1	4,225.9	266.8	259.3	3,403.0	3,403.0	106.3	106.3	123,870.6	123,982.9
California	32,239.3	31,364.4	37,491.4	38,534.1	3,712.1	3,911.9	255.6	248.1	2,240.0	2,240.0	106.3	106.3	76,044.7	76,404.8
Oregon	12,557.5	12,250.5	4,315.2	4,326.1	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	16,877.7	16,581.6
Washington	24,723.2	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	30,948.2	30,996.5
Pacific Noncontiguous	1,242.9	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	5,741.0	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	704.7	672.0	2,171.3	2,058.3	0.0	0.0	61.0	61.0	0.0	0.0	26.6	26.6	2,963.6	2,817.9
U.S. Total	244,406.9	227,519.6	738,462.8	747,412.7	22,700.3	22,878.2	1,106.4	1,015.9	97,120.9	98,873.0	1,544.6	1,447.6	1,105,341.9	1,099,147.0

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, June 2020 and 2019 (Megawatts)

Census Division and State	Summer Capacity at Utility Scale Facilities														Small Scale Capacity		Capacity From Utility and Small Scale Facilities			
	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Solar Photovoltaic		Estimated Total Solar Photovoltaic		Estimated Total Solar	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	1,463.2	1,424.8	1,217.4	1,019.3	0.0	0.0	1,957.6	1,960.6	1,417.0	1,480.2	0.0	0.0	6,055.2	5,884.9	2,800.5	2,350.0	4,017.9	3,369.3	4,017.9	3,369.3
Connecticut	1.0	1.0	142.4	95.0	0.0	0.0	119.4	122.2	199.9	202.6	0.0	0.0	462.7	420.8	557.7	451.8	700.1	546.8	700.1	546.8
Maine	921.6	921.6	5.6	5.6	0.0	0.0	734.0	733.5	569.3	629.8	0.0	0.0	2,230.5	2,290.5	60.5	51.8	66.1	57.4	66.1	57.4
Massachusetts	105.7	96.1	868.4	779.3	0.0	0.0	266.3	267.0	284.9	284.9	0.0	0.0	1,525.3	1,427.3	1,754.6	1,528.8	2,623.0	2,308.1	2,623.0	2,308.1
New Hampshire	211.9	183.1	0.0	0.0	0.0	0.0	504.0	504.0	241.0	241.0	0.0	0.0	956.9	928.1	110.0	89.8	110.0	89.8	110.0	89.8
Rhode Island	72.8	72.8	79.5	34.6	0.0	0.0	2.7	2.7	40.1	40.1	0.0	0.0	195.1	150.2	191.4	115.9	270.9	150.5	270.9	150.5
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	126.3	111.9	247.8	216.7	247.8	216.7
Middle Atlantic	3,453.3	3,467.3	1,540.3	1,237.1	0.0	0.0	5,471.6	5,473.2	1,112.5	1,269.4	0.0	0.0	11,577.7	11,447.0	3,839.0	3,217.7	5,379.3	4,454.8	5,379.3	4,454.8
New Jersey	7.6	7.6	921.3	824.8	0.0	0.0	12.3	12.3	193.8	217.3	0.0	0.0	1,135.0	1,062.0	1,779.0	1,529.5	2,700.3	2,354.3	2,700.3	2,354.3
New York	1,985.7	2,089.7	528.1	348.5	0.0	0.0	4,559.7	4,561.3	459.3	524.1	0.0	0.0	7,532.8	7,523.6	1,645.3	1,344.0	2,173.4	1,692.5	2,173.4	1,692.5
Pennsylvania	1,460.0	1,370.0	90.9	63.8	0.0	0.0	899.6	899.6	459.4	528.0	0.0	0.0	2,909.9	2,861.4	414.7	344.2	505.6	408.0	505.6	408.0
East North Central	11,423.3	10,332.1	550.3	469.9	0.0	0.0	884.6	859.9	1,158.5	1,235.1	0.0	0.0	14,016.7	12,897.0	803.9	488.0	1,354.2	957.9	1,354.2	957.9
Illinois	5,596.0	4,803.7	47.2	40.6	0.0	0.0	34.1	34.1	88.2	88.2	0.0	0.0	5,765.5	4,966.6	301.4	118.5	348.6	159.1	348.6	159.1
Indiana	2,309.8	2,309.8	249.1	217.0	0.0	0.0	66.2	60.4	70.8	70.8	0.0	0.0	2,695.9	2,658.0	114.2	81.3	363.3	298.3	363.3	298.3
Michigan	2,354.3	2,061.8	102.0	100.2	0.0	0.0	273.4	269.9	504.0	561.2	0.0	0.0	3,233.7	2,993.1	111.5	76.8	213.5	177.0	213.5	177.0
Ohio	843.5	718.4	111.6	88.2	0.0	0.0	101.9	101.9	138.7	149.8	0.0	0.0	1,195.7	1,058.3	179.3	142.6	290.9	230.8	290.9	230.8
Wisconsin	319.7	438.4	40.4	23.9	0.0	0.0	409.0	393.6	356.8	365.1	0.0	0.0	1,125.9	1,221.0	97.5	68.9	137.9	92.8	137.9	92.8
West North Central	29,965.6	25,468.3	1,078.3	925.9	0.0	0.0	3,295.5	3,296.7	415.6	458.2	0.0	0.0	34,755.0	30,149.1	475.3	380.2	1,553.6	1,306.1	1,553.6	1,306.1
Iowa	10,502.6	8,791.8	16.0	10.5	0.0	0.0	146.4	146.4	20.6	21.4	0.0	0.0	10,685.6	8,970.1	133.4	102.6	149.4	113.1	149.4	113.1
Kansas	6,529.3	5,857.8	30.2	10.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	6,575.5	5,884.0	28.4	22.6	58.6	32.8	58.6	32.8
Minnesota	4,052.2	3,850.5	945.7	824.1	0.0	0.0	205.9	205.9	346.4	388.2	0.0	0.0	5,550.2	5,268.7	83.4	66.9	1,029.1	891.0	1,029.1	891.0
Missouri	1,196.3	954.3	62.1	62.1	0.0	0.0	548.5	548.5	14.1	14.1	0.0	0.0	1,821.0	1,579.0	216.8	178.1	278.9	240.2	278.9	240.2
Nebraska	2,410.8	2,018.3	23.3	18.0	0.0	0.0	279.7	280.9	15.7	15.7	0.0	0.0	2,729.5	2,332.9	11.8	8.9	35.1	26.9	35.1	26.9
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	0.6	0.5	0.6	0.5	0.6	0.5
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	1,142.5	1,086.3	11,601.6	8,223.3	0.0	0.0	7,189.2	7,226.4	4,335.6	4,190.4	0.0	0.0	24,268.9	20,726.4	2,345.9	1,918.5	13,947.5	10,141.8	13,947.5	10,141.8
Delaware	2.0	2.0	36.7	32.2	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	50.9	47.4	84.6	81.8	121.3	115.0	121.3	115.0
District of Columbia	0.0	0.0	8.4	6.9	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	20.4	18.9	72.6	52.1	81.0	59.0	81.0	59.0
Florida	0.0	0.0	3,409.7	1,975.9	0.0	0.0	43.5	54.5	1,184.1	1,180.8	0.0	0.0	4,637.3	3,211.2	619.4	385.5	4,029.1	2,361.4	4,029.1	2,361.4
Georgia	0.0	0.0	1,733.3	1,036.0	0.0	0.0	2,031.0	2,047.2	1,059.8	949.4	0.0	0.0	4,824.1	4,032.6	NM	180.2	NM	1,216.2	NM	1,216.2
Maryland	190.0	190.0	329.6	285.5	0.0	0.0	590.0	590.0	140.9	140.9	0.0	0.0	1,250.5	1,206.4	792.7	753.3	1,122.3	1,038.8	1,122.3	1,038.8
North Carolina	208.0	208.0	4,599.5	4,084.9	0.0	0.0	2,006.0	2,004.0	564.0	560.5	0.0	0.0	7,377.5	6,857.4	209.5	161.2	4,809.0	4,246.1	4,809.0	4,246.1
South Carolina	0.0	0.0	889.3	407.1	0.0	0.0	1,311.9	1,323.9	554.5	526.5	0.0	0.0	2,755.7	2,257.5	245.4	218.4	1,134.7	625.5	1,134.7	625.5
Virginia	0.0	0.0	595.1	393.8	0.0	0.0	866.0	866.0	804.9	804.9	0.0	0.0	2,266.0	2,064.7	126.0	78.1	721.1	471.9	721.1	471.9
West Virginia	742.5	686.3	0.0	0.0	0.0	0.0	340.8	340.8	3.2	3.2	0.0	0.0	1,086.5	1,030.3	10.0	7.8	10.0	7.8	10.0	7.8
East South Central	29.1	29.1	620.5	559.0	0.0	0.0	7,055.3	7,055.5	1,206.3	1,264.7	0.0	0.0	8,911.2	8,908.3	111.3	99.6	731.8	658.6	731.8	658.6
Alabama	0.0	0.0	194.1	194.1	0.0	0.0	3,291.8	3,292.0	633.1	693.9	0.0	0.0	4,119.0	4,180.0	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	33.2	24.8	59.3	50.9	59.3	50.9
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	9.9	8.1	228.0	168.7	228.0	168.7
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	59.4	58.2	241.6	236.4	241.6	236.4
West South Central	37,235.7	34,131.1	3,698.5	2,102.0	0.0	0.0	3,001.4	2,991.4	1,164.4	1,233.6	0.0	0.0	45,100.0	40,458.1	989.2	746.7	4,687.7	2,848.7	4,687.7	2,848.7
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	36.7	20.9	148.9	120.9	148.9	120.9
Louisiana	0.0	0.0	1.1	1.1	0.0	0.0	192.0	192.0	422.1	422.4	0.0	0.0	615.2	615.5	154.5	142.5	155.6	143.6	155.6	143.6
Oklahoma	8,168.7	8,070.7	30.5	30.5	0.0	0.0	863.6	863.6	76.2	76.2	0.0	0.0	9,139.0	9,041.0	16.0	10.7	46.5	41.2	46.5	41.2
Texas	29,067.0	26,060.4	3,554.7	1,970.4	0.0	0.0	680.0	670.0	401.4	403.7	0.0	0.0	33,703.1	29,104.5	782.0	572.5	4,336.7	2,542.9	4,336.7	2,542.9
Mountain	10,152.9	9,560.6	6,849.0	5,949.4	474.1	473.9	10,652.8	10,653.6	173.8	175.7	656.7	639.0	28,959.3	27,452.2	2,969.8	2,519.5	9,818.8	8,468.9	10,292.9	8,942.8
Arizona	267.3	267.3	2,022.5	1,788.6	295.6	295.4	2,720.9	2,720.9	30.7	30.7	0.0	0.0	5,337.0	5,102.9	1,537.0	1,334.1	3,559.5	3,122.7	3,559.5	3,122.7
Colorado	3,757.9	3,698.5	672.4	547.6	0.0	0.0	684.1	886.4	28.7	28.7	0.0	0.0	5,143.1	4,961.2	410.1	371.8	1,082.5	919.4	1,082.5	919.4
Idaho	970.4	970.4	242.0	242.0	0.0	0.0	2,764.2	2,764.2	83.4	85.3	10.0	10.0	4,070.0	4,071.9	51.3	33.9	293.3	275.9	293.3	275.9
Montana	871.3	783.5	17.0	17.0	0.0	0.0	2,782.6	2,771.1	3.0	3.0	0.0	0.0	3,673.9	3,574.6	22.9	15.5	39.9	32.5	39.9	32.5
Nevada	150.0	150.0	2,152.6	1,821.7	178.5	178.5	1,051.4	1,051.4	9.8	9.8	567.4	547.4	4,109.7	3,758.8	463.0	355.6	2,615.6	2,177.3	2,794.1	2,355.8
New Mexico	2,035.9	1,815.4	733.8	581.4	0.0	0.0	82.9	82.9	5.4	5.4	8.6	8.6	2,866.6	2,493.7	180.6	150.7	914.4	732.1	914.4	732.1
Utah	388.2	388.2	916.7	859.1	0.0	0.0	259.6	269.6	12.8	12.8	70.7	73.0	1,648.0	1,602.7	297.5	252.5	1,214.2	1,111.6	1,214.2	1,111.6
Wyoming	1,711.9	1,487.3	92.0	92.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	2,111.0	1,886.4	7.6	5.4	99.6	97.4	99.6	97.4
Pacific Contiguous	12,541.0	12,345.9	12,278.6	11,216.6	1,284.0	1,284.0	39,671.2	39,858.7	1,889.5	1,904.1	1,855.7	1,777.1	69,520.0	68,386.4	10,155.1	8,801.1	22,433.7	20,017.7	23,717.7	21,301.7
California	6,029.2	6,057.5	11,768.2	10,876.6	1,284.0	1,284.0	10,131.6	10,184.0	1,190.1	1,204.7	1,836.2	1,757.6	32,239.3	31,364.4	9,790					

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, June 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	
	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019	June 2020	June 2019
New England	14,278.6	14,267.4	1,776.0	1,581.4	1,506.9	1,116.3	917.3	917.3	0.0	0.0	5,736.9	6,318.6	0.0	0.0	24,215.7	24,201.0
Connecticut	3,984.2	3,989.7	580.4	563.0	888.3	878.7	383.4	383.4	0.0	0.0	2,034.9	2,034.9	0.0	0.0	7,871.2	7,849.7
Maine	1,285.6	1,284.3	322.3	144.3	12.5	12.5	0.0	0.0	0.0	0.0	878.9	1,037.7	0.0	0.0	2,499.3	2,478.8
Massachusetts	5,960.6	5,948.2	857.1	857.9	180.5	199.7	0.0	0.0	0.0	0.0	2,576.4	2,599.2	0.0	0.0	9,574.6	9,605.0
New Hampshire	1,258.0	1,258.0	3.8	3.8	400.2	0.0	533.9	533.9	0.0	0.0	94.0	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	36,409.6	33,150.0	7,894.3	7,853.0	14,143.9	14,471.3	10,346.8	11,960.7	11.6	78.6	5,363.5	5,338.9	130.7	130.7	74,300.4	72,983.2
New Jersey	8,579.0	8,541.5	2,844.3	2,826.3	68.5	46.9	463.0	463.0	11.6	11.6	246.1	239.0	29.0	29.0	12,241.5	12,157.3
New York	9,944.0	8,893.9	3,177.6	3,165.7	9,739.1	9,675.0	652.1	1,631.5	0.0	0.0	3,550.1	3,544.6	0.0	0.0	27,062.9	26,910.7
Pennsylvania	17,886.6	15,714.6	1,872.4	1,861.0	4,336.3	4,749.4	9,231.7	9,866.2	0.0	67.0	1,567.3	1,555.3	101.7	101.7	34,996.0	33,915.2
East North Central	22,411.8	21,678.0	26,520.8	26,727.7	5,600.9	5,743.3	49,919.2	53,530.2	247.6	247.6	2,323.8	2,455.8	1,084.9	1,092.9	108,109.0	111,475.5
Illinois	3,577.7	3,580.2	10,530.4	10,525.1	1,626.7	1,629.8	10,615.5	12,826.0	0.0	0.0	672.9	673.9	36.5	36.5	27,059.7	29,071.5
Indiana	3,866.0	3,866.0	3,287.3	3,346.3	734.2	730.0	15,245.7	15,245.7	0.0	0.0	98.3	98.3	619.3	619.3	23,850.8	23,905.6
Michigan	4,451.9	4,394.3	3,850.1	3,874.0	2,411.4	2,558.5	8,521.2	8,608.3	47.2	47.2	464.8	463.5	250.0	250.0	19,996.6	20,195.8
Ohio	7,037.8	7,026.4	5,636.7	5,620.1	198.5	185.1	9,996.0	11,496.0	142.0	142.0	507.5	584.6	179.1	187.1	23,697.6	25,241.3
Wisconsin	3,478.4	2,811.1	3,216.3	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	13,504.3	13,061.3
West North Central	7,041.6	6,816.1	11,591.5	11,681.4	3,737.7	3,803.2	32,759.1	33,079.3	32.0	39.5	3,849.5	3,875.3	8.4	8.4	59,019.8	59,303.2
Iowa	1,829.0	1,781.0	1,226.8	1,259.4	581.3	539.2	5,343.8	5,371.7	32.0	39.5	819.7	817.4	0.0	0.0	9,832.6	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	2,496.0	2,346.0	2,544.8	2,616.8	398.5	381.6	4,180.5	4,157.9	0.0	0.0	767.1	769.2	0.0	0.0	10,386.9	10,271.5
Missouri	1,817.4	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	17,453.6	17,672.0
Nebraska	338.2	338.2	1,148.4	1,149.0	521.7	525.8	3,867.0	3,867.0	0.0	0.0	321.0	321.8	0.0	0.0	6,196.3	6,201.8
North Dakota	0.0	0.0	414.0	408.0	167.0	111.6	3,948.8	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	14.1	8.7	474.0	474.0	0.0	0.0	215.1	224.0	0.0	0.0	1,702.9	1,691.3
South Atlantic	61,773.0	61,143.5	31,904.5	32,021.6	7,271.3	6,873.1	50,957.1	52,930.6	142.8	142.8	8,660.5	8,959.7	135.0	135.0	160,844.2	162,206.3
Delaware	1,604.0	1,511.0	272.0	317.2	844.4	843.1	410.0	410.0	0.0	0.0	158.5	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	31,864.2	31,571.1	7,942.7	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	53,486.2	52,981.0
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	2,709.1	2,849.1	1,851.7	1,994.0	1,416.1	1,416.1	4,152.0	4,270.0	0.0	0.0	1,171.3	1,279.2	0.0	0.0	11,300.2	11,808.4
North Carolina	5,628.2	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	22,192.8	22,011.5
South Carolina	3,185.0	3,185.0	2,625.2	2,758.4	950.0	546.0	4,769.0	5,212.0	0.0	0.0	234.9	466.9	0.0	0.0	11,764.1	12,168.3
Virginia	8,873.0	8,966.4	4,245.3	4,245.3	579.7	615.3	2,878.9	2,878.9	0.0	0.0	2,340.8	2,341.9	0.0	0.0	18,917.7	19,047.8
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	21,797.2	21,746.2	12,714.7	12,669.7	4,308.4	4,306.1	22,484.6	23,844.1	0.0	0.0	106.7	106.7	19.8	19.8	61,431.4	62,692.6
Alabama	9,754.8	9,699.0	2,575.8	2,575.8	1,957.8	1,939.1	5,284.3	5,276.0	0.0	0.0	42.6	42.6	19.8	19.8	19,635.1	19,552.3
Kentucky	1,763.0	1,763.0	4,931.2	4,976.6	260.0	260.0	9,911.0	11,278.8	0.0	0.0	11.9	11.9	0.0	0.0	16,877.1	18,290.3
Mississippi	7,824.3	7,829.1	1,375.2	1,336.8	2,024.4	2,040.8	1,444.0	1,444.0	0.0	0.0	9.0	9.0	0.0	0.0	12,676.9	12,659.7
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	62,824.6	61,265.1	14,862.7	14,419.1	30,408.5	31,839.4	30,119.1	30,645.4	878.9	954.7	169.1	175.6	818.3	830.8	140,081.2	140,130.1
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	9,701.2	8,430.6	2,618.1	2,349.6	6,064.1	6,050.2	2,837.1	2,833.7	815.1	890.9	43.2	43.1	407.4	407.4	22,486.2	21,005.5
Oklahoma	7,321.2	7,307.2	1,630.9	1,686.9	5,706.1	5,764.1	3,246.0	3,322.5	0.0	0.0	74.4	74.4	0.0	0.0	17,978.6	18,155.1
Texas	41,192.4	40,918.5	9,910.9	9,679.8	17,842.3	19,229.1	18,872.6	19,366.6	63.8	63.8	42.5	45.9	410.9	423.4	88,335.4	89,727.1
Mountain	22,554.4	22,539.8	9,129.4	9,163.1	3,634.7	3,615.4	23,725.5	26,765.5	52.0	52.0	349.9	349.9	103.5	103.5	59,549.4	62,589.2
Arizona	9,916.5	9,908.6	2,891.1	2,891.1	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	19,727.8
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	536.3	534.2	328.2	328.2	4,581.0	4,654.0	0.0	0.0	27.8	27.8	0.0	0.0	7,303.3	7,374.2
Wyoming	94.0	94.0	153.6	153.6	10.9	12.9	6,403.0	6,406.0	0.0	0.0	5.8	5.8	102.0	102.0	6,769.3	6,774.3
Pacific Contiguous	26,411.9	25,852.8	11,998.1	12,099.0	5,445.2	6,958.4	1,982.0	1,982.0	20.0	17.0	469.8	471.4	221.4	221.4	46,548.4	47,602.0
California	20,404.3	19,834.3	11,144.9	11,245.8	5,189.2	6,702.4	57.0	57.0	20.0	17.0	454.6	456.2	221.4	221.4	37,491.4	38,534.1
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	275,979.9	268,938.1	129,023.1	128,847.1	76,232.5	78,901.5	223,559.6	235,987.9	1,384.9	1,532.2	29,760.8	30,657.0	2,522.0	2,548.9	738,462.8	747,412.7

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	Praher Community Solar LLC	IPP	Praher 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 Sebawaing - (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	Burrill 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

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
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
2020	5	61012	AES Distributed Energy	IPP	Beals Medina Solar LLC CSG	NY	63130	BEALS	3.5	Solar Photovoltaic	SUN	PV
2020	5	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLSL3	136.8	Solar Photovoltaic	SUN	PV
2020	5	63205	Brush Creek Solar, LLC	IPP	Brush Creek Solar	OR	63464	PGR19	2.2	Solar Photovoltaic	SUN	PV
2020	5	62900	Caden Energix Rives Road LLC	IPP	Caden Energix Rives Road LLC	VA	63087	ENX01	19.7	Solar Photovoltaic	SUN	PV
2020	5	62855	Clear Creek Wind, LLC	IPP	Clear Creek Wind	MO	63025	V110	22.0	Onshore Wind Turbine	WND	WT
2020	5	62855	Clear Creek Wind, LLC	IPP	Clear Creek Wind	MO	63025	V120	220.0	Onshore Wind Turbine	WND	WT
2020	5	56769	Consolidated Edison Development Inc.	IPP	CED Mason City Wind	IA	63521	MCW1	7.5	Onshore Wind Turbine	WND	WT
2020	5	60370	DG AMP Solar, LLC	IPP	DG AMP Rittman Rd	OH	62941	AMPRR	2.6	Solar Photovoltaic	SUN	PV
2020	5	5109	DTE Electric Company	Electric Utility	Polaris Wind Park	MI	62290	1	168.6	Onshore Wind Turbine	WND	WT
2020	5	63207	Drift Creek Solar, LLC	IPP	Drift Creek Solar	OR	63466	PGR18	2.2	Solar Photovoltaic	SUN	PV
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Debary Solar Power Plant	FL	62542	PV1	74.5	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	5	60496	Enerparc Inc.	IPP	Morgan Solar Center	OR	61855	MORGN	3.0	Solar Photovoltaic	SUN	PV
2020	5	60496	Enerparc Inc.	IPP	Ontario Solar Center	OR	61860	ONTRO	3.0	Solar Photovoltaic	SUN	PV
2020	5	13478	Entergy New Orleans, LLC	Electric Utility	New Orleans Power	LA	60928	1	250.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	62759	Geronimo Energy	IPP	Hydra Community Solar Garden, LLC (CSG)	MN	63629	HYDRA	1.0	Solar Photovoltaic	SUN	PV
2020	5	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG1	268.5	Natural Gas Fired Combined Cycle	NG	CT
2020	5	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG2	268.5	Natural Gas Fired Combined Cycle	NG	CT
2020	5	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	STG1	437.0	Natural Gas Fired Combined Cycle	NG	CA
2020	5	49893	Invenergy Services LLC	IPP	Beech Ridge II Wind Energy Center	WV	62482	GEN1	56.2	Onshore Wind Turbine	WND	WT
2020	5	63172	Leven Garden LLC	IPP	Leven Garden Solar	MN	63425	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	5	63174	Maston Garden LLC	IPP	Maston Garden Solar	MN	63434	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	5	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN16	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	5	56990	NJR Clean Energy Ventures Corporation	IPP	Campus Drive Solar	NJ	63334	CAMPS	3.7	Solar Photovoltaic	SUN	PV
2020	5	62849	Novel Byron Solar LLC CSG	IPP	Novel Byron Solar CSG	MN	62985	BYRN	1.0	Solar Photovoltaic	SUN	PV
2020	5	63183	Oxy Renewable Energy LLC	IPP	Oxy Renewable Energy - Goldsmith	TX	63388	SOLAR	16.8	Solar Photovoltaic	SUN	PV
2020	5	63189	Rock County Wind Fuel, LLC	IPP	Rock County Wind Fuel, LLC	MN	63460	RCWF	5.0	Onshore Wind Turbine	WND	WT
2020	5	63074	Scout Clean Energy LLC	IPP	Heart of Texas Wind Project	TX	61032	HTX	180.0	Onshore Wind Turbine	WND	WT
2020	5	17164	Sierra Pacific Industries Inc	Industrial	Sierra Pacific Industries (2042-RD)	CA	63416	GEN1	8.4	Solar Photovoltaic	SUN	PV
2020	5	17650	Southern Power Co	IPP	Reading Wind Project	KS	60999	READW	200.1	Onshore Wind Turbine	WND	WT
2020	5	60970	SunShare Management	IPP	Linden 01 CSG	MN	63179	KANE1	1.0	Solar Photovoltaic	SUN	PV
2020	5	60970	SunShare Management	IPP	Linden 02 CSG	MN	63182	LIND2	1.0	Solar Photovoltaic	SUN	PV
2020	5	60970	SunShare Management	IPP	Linden 03 CSG	MN	63183	LIND3	1.0	Solar Photovoltaic	SUN	PV
2020	5	62822	Syncarpha Blandford, LLC	IPP	Syncarpha Blandford Hybrid CSG	MA	62975	SYBLB	3.9	Batteries	MWH	BA
2020	5	62905	Syncarpha Taos I, LLC	IPP	Syncarpha Taos	NM	63123	SYNTA	3.1	Solar Photovoltaic	SUN	PV
2020	5	62828	TWE Bowman Solar Project, LLC	IPP	TWE Bowman Solar Project	SC	62828	BOW	73.1	Solar Photovoltaic	SUN	PV
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA
2020	6	61524	226HC 8me LLC	IPP	Holstein 1 Solar Farm	TX	61962	HSF01	200.0	Solar Photovoltaic	SUN	PV
2020	6	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV
2020	6	61012	AES Distributed Energy	IPP	Cronin Road Solar 1, LLC CSG	MA	63011	CRONI	1.5	Solar Photovoltaic	SUN	PV
2020	6	61012	AES Distributed Energy	IPP	Cycz Solar Project CSG Hybrid	MA	63472	BATT	1.3	Batteries	MWH	BA
2020	6	61012	AES Distributed Energy	IPP	Cycz Solar Project CSG Hybrid	MA	63472	CYCZ	2.0	Solar Photovoltaic	SUN	PV
2020	6	61012	AES Distributed Energy	IPP	Partridge Solar Project CSG Hybrid	MA	63435	BATT	1.3	Batteries	MWH	BA
2020	6	61012	AES Distributed Energy	IPP	Partridge Solar Project CSG Hybrid	MA	63435	PRTDG	2.0	Solar Photovoltaic	SUN	PV
2020	6	63468	Alkali Solar, LLC	IPP	Alkali Solar, LLC	OR	63795	2	10.0	Solar Photovoltaic	SUN	PV
2020	6	60281	Altus Power America Management, LLC	IPP	FastSun 19 CSG	MN	63033	FS19	1.0	Solar Photovoltaic	SUN	PV
2020	6	60281	Altus Power America Management, LLC	IPP	FastSun 2 CSG	MN	62696	FS2	1.0	Solar Photovoltaic	SUN	PV
2020	6	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	GT2	117.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	56769	Consolidated Edison Development Inc.	IPP	CED Crane Solar	TX	63519	CRN1	150.0	Solar Photovoltaic	SUN	PV
2020	6	49846	Covanta Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV
2020	6	62800	DG Edison New Jersey LLC	IPP	DG Iron Mountain	NJ	62957	IRNMT	5.4	Solar Photovoltaic	SUN	PV
2020	6	5248	Dominion Energy Inc	Electric Utility	Myrtle Solar	VA	63746	MYSO	15.0	Solar Photovoltaic	SUN	PV
2020	6	61420	ENGIE Storage Services NA LLC	Commercial	Pacific Union College BESS	CA	61795	12649	1.0	Batteries	MWH	BA
2020	6	58135	Ecos Energy LLC	IPP	Dickinson Solar (CT)	CT	63245	DCKN	2.0	Solar Photovoltaic	SUN	PV
2020	6	58135	Ecos Energy LLC	IPP	Sydney Solar	CT	63244	SYDN	2.0	Solar Photovoltaic	SUN	PV
2020	6	7140	Georgia Power Co	Electric Utility	Moody Air Force Base Solar	GA	62377	1	49.5	Solar Photovoltaic	SUN	PV
2020	6	63292	Harmony Florida Solar LLC	IPP	Harmony Solar	FL	63582	HFS	74.5	Solar Photovoltaic	SUN	PV
2020	6	63470	Illinois PV Fulton 1, LLC	IPP	Illinois PV Fulton 1 CSG	IL	63790	FULT	2.0	Solar Photovoltaic	SUN	PV
2020	6	9234	Indiana Municipal Power Agency	Electric Utility	Crawfordsville Solar Park 4	IN	62776	SCRA4	2.3	Solar Photovoltaic	SUN	PV
2020	6	9234	Indiana Municipal Power Agency	Electric Utility	Gas City Solar Park	IN	62767	SGASC	2.5	Solar Photovoltaic	SUN	PV
2020	6	61219	Longroad Energy Services LLC	IPP	Prospero Solar	TX	62755	PROSP	300.0	Solar Photovoltaic	SUN	PV
2020	6	62915	Madison Energy Holdings LLC	IPP	Houston/Winona Community Solar One LLC	MN	63534	52827	1.0	Solar Photovoltaic	SUN	PV
2020	6	62915	Madison Energy Holdings LLC	IPP	Winona Community Solar One LLC	MN	63532	52837	1.0	Solar Photovoltaic	SUN	PV
2020	6	63529	Medusa NY 1, LLC	IPP	Medusa NY 1	NY	63854	8175C	2.0	Solar Photovoltaic	SUN	PV
2020	6	62864	Novel Haley Solar LLC CSG	IPP	Novel Haley Solar CSG	MN	63005	HALY	1.0	Solar Photovoltaic	SUN	PV
2020	6	62633	Plum Creek Wind, LLC	IPP	Plum Creek Wind Project (NE)	NE	62711	PLUM	230.0	Onshore Wind Turbine	WND	WT
2020	6	61678	RE Rambler LLC	IPP	Rambler	TX	62141	RMBLR	200.0	Solar Photovoltaic	SUN	PV
2020	6	56215	RWE Renewables Americas LLC	IPP	Peyton Creek Wind Farm LLC	TX	62417	WT1	220.0	Onshore Wind Turbine	WND	WT
2020	6	63460	Rock Garden, LLC	IPP	Rock Garden Solar, LLC	OR	63779	4	10.0	Solar Photovoltaic	SUN	PV
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82059	124.0	Onshore Wind Turbine	WND	WT
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82060	79.0	Onshore Wind Turbine	WND	WT
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82061	23.0	Onshore Wind Turbine	WND	WT

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	6	60531	Standard Solar	IPP	USS Mayhew Solar LLC CSG	MN	63144	MAYHW	1.0	Solar Photovoltaic	SUN	PV
2020	6	60531	Standard Solar	IPP	USS Milkweed Solar LLC CSG	MN	63142	MLKWD	1.0	Solar Photovoltaic	SUN	PV
2020	6	60531	Standard Solar	IPP	USS Monarch Solar LLC CSG	MN	63147	MNRCH	1.0	Solar Photovoltaic	SUN	PV
2020	6	60531	Standard Solar	IPP	USS Sunrise Solar LLC CSG	MN	63141	SNRSE	1.0	Solar Photovoltaic	SUN	PV
2020	6	60531	Standard Solar	IPP	USS Westeros Solar LLC CSG	MN	63140	USSWS	1.0	Solar Photovoltaic	SUN	PV
2020	6	63290	Taylor Creek Solar LLC	IPP	Taylor Creek Solar	FL	63583	TCS	74.5	Solar Photovoltaic	SUN	PV
2020	6	63532	Walden NY 1, LLC	IPP	Walden NY 1	NY	63855	8175E	2.0	Solar Photovoltaic	SUN	PV
2020	6	63469	West Hines Solar I, LLC	IPP	West Hines Solar I, LLC	OR	63796	1	10.0	Solar Photovoltaic	SUN	PV

NOTES:

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

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

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

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 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
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	14268	City of Owensboro - (KY)	Electric Utility	Elmer Smith	KY	1374	1	137.0	Conventional Steam Coal	BIT	ST
2020	5	14268	City of Owensboro - (KY)	Electric Utility	Elmer Smith	KY	1374	2	262.8	Conventional Steam Coal	BIT	ST
2020	5	59878	Clean Fuel Partners Dane	Electric CHP	Clean Fuel Dane Community Digester	WI	59559	GEN#1	1.0	Other Waste Biomass	OBG	IC
2020	5	59878	Clean Fuel Partners Dane	Electric CHP	Clean Fuel Dane Community Digester	WI	59559	GEN#2	1.0	Other Waste Biomass	OBG	IC
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/AhiCon 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

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	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	5	17897	St Mary's Hospital	Commercial	Saint Marys Hospital Power Plant	MN	54262	6	2.7	Natural Gas Internal Combustion Engine	NG	IC
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	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

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
 Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.
 Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	7	61012	AES Distributed Energy	IPP	Allis Medina Solar LLC	NY	63129	ALLIS	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2020	7	61012	AES Distributed Energy	IPP	Cronin Road Solar 1, LLC CSG	MA	63011	BESS	1.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.5
2020	7	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	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 Hybrid	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 Hybrid	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	Ryan Road Solar LLC	MA	63044	ORCHA	4.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.3
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	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	7	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	7	59613	BayWa r.e. Solar Projects LLC	IPP	Fern Solar LLC	NC	62798	FERN	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2020	7	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	7	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	7	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	7	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	7	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	7	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	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	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	7	62802	Cove Mountain Solar LLC	IPP	Cove Mountain Solar	UT	62469	GEN01	58.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	58.0
2020	7	61060	Cypress Creek Renewables	IPP	Midlands	SC	63839	1113	72.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	72.1
2020	7	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	7	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	7	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	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	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	7	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	7	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	7	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	7	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	7	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	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	61873	GA Solar 4	IPP	Twigg Solar	GA	61696	TWIGG	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	200.0
2020	7	61944	GSRP	IPP	Lafayette 2 - Internal Services Dept	CA	63527	GEN1	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2020	7	61944	GSRP	IPP	Lafayette 2 - MLK Jr. Hospital (MLK)	CA	63623	GEN1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2020	7	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	BESS1	0.2	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	0.2
2020	7	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	DG1	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2020	7	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	FC1	0.2	Other Natural Gas	NG	FC	(V) Under construction, more than 50 percent complete	0.2
2020	7	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	NGE1	0.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	0.2
2020	7	7140	Georgia Power Co	Electric Utility	Tech Square Microgrid	GA	63775	NGE2	0.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	0.2
2020	7	60719	Harvest Ridge Wind Farm	IPP	Harvest Ridge Wind Farm	IL	61161	GEN01	202.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	202.0
2020	7	62638	Helen Solar LLC	IPP	Helen Solar CSG	MN	62706	SC	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
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	9234	Indiana Municipal Power Agency	Electric Utility	Tell City Solar Park	IN	62790	STEL2	3.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.2
2020	7	10273	Kimberly-Clark Corp	Industrial	Chester Operations	PA	50410	6	14.1	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	17.3
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 3	PA	62991	PAWT3	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2020	7	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	7	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	7	11479	Madison Gas & Electric Co	Electric Utility	Middleton Airport Solar	WI	62731	1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2020	7	63471	NES Olympos	IPP	Lane II Solar, LLC	NC	63837	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	7	63471	NES Olympos	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	7	56990	NJR Clean Energy Ventures Corporation	IPP	Monroe Solar Farm, LLC	NJ	63451	MONR1	13.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	13.1
2020	7	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	7	62640	Northfield Solar LLC	IPP	Northfield Solar CSG	MN	62708	SC	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2020	7	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	7	62644	OEE XXVIII LLC	Industrial	LafargeHolcim - Paulding Wind Project	OH	62752	L2	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2020	7	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	7	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	7	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	7	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	7	62788	Oberon Solar IA	IPP	Oberon IA	TX	62933	OBR1A	150.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	150.0
2020	7	62789	Oberon Solar IB	IPP	Oberon IB	TX	62932	OBR1B	30.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	30.0
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	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	7	61677	Sol Systems	IPP	Ruff Solar LLC	NC	62594	11625	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	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	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	7	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	7	63459	Suntex Solar, LLC	IPP	Suntex Solar, LLC	OR	63778	3	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2020	7	62637	Walcott Solar LLC	IPP	Walcott Solar CSG	MN	62707	SC	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
2020	7	62641	Warsaw Solar LLC	IPP	Warsaw Solar CSG	MN	62709	SC	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	7	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center	CA	60698	BESS1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
2020	7	20323	Wellhead Energy, LLC	IPP	Stanton Energy Reliability Center	CA	60698	BESS2	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0
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	7	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	7	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	8	61012	AES Distributed Energy	IPP	Finchville Solar, LLC	NY	62999	BESS	3.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	3.0
2020	8	61012	AES Distributed Energy	IPP	McDougle-Mitchell Solar Project Hybrid	MA	63470	BATT	2.9	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.9
2020	8	61012	AES Distributed Energy	IPP	McDougle-Mitchell Solar Project Hybrid	MA	63470	MCDMT	4.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.5

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
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	63507	Bluebird Solar LLC	IPP	Bluebird Solar SC LLC	SC	63833	BB	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2020	8	63380	Brenda Luhman Community Solar LLC	IPP	Brenda Luhman - CSG	MN	63682	BLCS	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	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	8	63415	CO Buffalo Flats LLC	IPP	Rawhide Prairie Solar Hybrid	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 Hybrid	CO	63722	PV1	22.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	22.0
2020	8	63381	Carlson Community Solar	IPP	Carlson Community (CSG)	MN	63683	CRLSN	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	63072	Cerro Gordo Wind Farm	IPP	Cerro Gordo Wind Farm	IA	63287	CGWF	42.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	42.0
2020	8	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	8	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	8	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	8	56769	Consolidated Edison Development Inc.	IPP	CED Northampton Solar LLC Hybrid	MA	62895	NSES	2.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.3
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	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	8	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	8	58970	Ecoplexus, Inc	IPP	HWY 158 PV	NC	63566	HW158	9.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.0
2020	8	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	8	62856	Forefront Power, LLC	IPP	Fresno Sunnyside High School Hybrid	CA	63422	BA112	0.3	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.3
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	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	8	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	8	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	8	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	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	63400	Hammer Community Solar LLC	IPP	Hammer Community (CSG)	MN	63684	HAMR	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	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	8	49893	Invenery 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	Invenery 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	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	8	62915	Madison Energy Holdings LLC	IPP	Sobania Community Solar LLC	MN	63791	SOB01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	62915	Madison Energy Holdings LLC	IPP	Stevens Community Solar LLC	MN	63794	ST001	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	62915	Madison Energy Holdings LLC	IPP	Studenski Community Solar LLC	MN	63793	STU01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	62915	Madison Energy Holdings LLC	IPP	Svihel Community Solar LLC	MN	63792	SVH01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	63471	NES Olympos	IPP	Benson Solar, LLC	NC	63836	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	8	63471	NES Olympos	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2020	8	63471	NES Olympos	IPP	Pilot Mountain Solar, LLC	NC	63835	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	8	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	8	63185	Neighborhood Power Corp.	IPP	Mt Hope Solar	OR	63663	W0053	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2020	8	63185	Neighborhood Power Corp.	IPP	River Valley Solar	OR	63665	W0054	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2020	8	63185	Neighborhood Power Corp.	IPP	Williams Acres Solar	OR	63664	W0055	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2020	8	13484	New York Methodist Hospital	IPP	New York Methodist Hospital	NY	52091	CHEG	1.5	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	1.5
2020	8	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	8	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	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	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	8	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	8	63366	Schueler Community Solar LLC	IPP	Schueler Community Solar	MN	63658	TC3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	63365	Siems Community Solar LLC	IPP	Siems Solar Project	MN	63657	TC3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	8	60038	Silicon Valley Clean Water	Electric CHP	Silicon Valley Clean Water	CA	60249	BES	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2020	8	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	8	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	8	60531	Standard Solar	IPP	USS Chariot Solar LLC	MN	63171	CHROT	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
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 Home 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 Home 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	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	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	8	62701	Vista Solar, Inc.	IPP	Hopkinton Phase 2	RI	63191	HTP2	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	9	61012	AES Distributed Energy	IPP	AES Kekaha Solar, LLC	HI	63280	BESS	14.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	14.0
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	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	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	(V) Under construction, more than 50 percent complete	130.0
2020	9	63487	Bronco Plains Wind, LLC	IPP	Bronco Plains Wind, LLC	CO	63803	WBOPL	299.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	300.0
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	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	9	56769	Consolidated Edison Development Inc.	IPP	CED Hilltop Solar	IL	63824	HS1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	9	56769	Consolidated Edison Development Inc.	IPP	Red Lake Falls Community Hybrid	MN	63689	RLFS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	56769	Consolidated Edison Development Inc.	IPP	Red Lake Falls Community Hybrid	MN	63689	RLFW	4.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	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 Inc	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,	

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	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	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	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	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	63548	GD Hopkinton Main I, LLC	IPP	GD Hopkinton Main I, LLC	RI	63893	MAIN1	2.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.6
2020	9	63548	GD Hopkinton Main I, LLC	IPP	GD Hopkinton Main I, LLC	RI	63893	MAIN2	3.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.9
2020	9	63548	GD Hopkinton Main I, LLC	IPP	GD Hopkinton Main I, LLC	RI	63893	MAIN3	4.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.1
2020	9	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
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	62046	High Lonesome Wind Power, LLC	IPP	High Lonesome Wind Power, LLC	TX	62562	HIL0	449.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	449.5
2020	9	62046	High Lonesome Wind Power, LLC	IPP	High Lonesome Wind Power, LLC	TX	62562	HIL02	50.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	50.0
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	(V) Under construction, more than 50 percent complete	1.0
2020	9	9234	Indiana Municipal Power Agency	Electric Utility	Crawfordsville 5 Solar Park	IN	62793	SCRAS5	9.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	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	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	62915	Madison Energy Holdings LLC	IPP	Betcher CSG 1, LLC	MN	63819	BET01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	62915	Madison Energy Holdings LLC	IPP	Hinterland CSG, LLC	MN	63817	HIN01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	62915	Madison Energy Holdings LLC	IPP	Huneke CSG 1, LLC	MN	63820	HUN01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	62915	Madison Energy Holdings LLC	IPP	Huneke CSG 2, LLC	MN	63821	HUN02	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
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	63471	NES Olympos	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	9	56990	NJR Clean Energy Ventures Corporation	IPP	ACCP NJ 1	NJ	63198	ACCP1	1.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.2
2020	9	62848	Novel Jewison Solar LLC CSG	IPP	Novel Jewison Solar CSG	MN	62984	JEW1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	62850	Novel Kanewischer Solar LLC CSG	IPP	Novel Kanewischer Solar CSG	MN	62986	KANE	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	9	62866	Novel MNDot Solar LLC CSG	IPP	Novel MNDot Solar CSG	MN	63007	MNDT	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	9	62846	Novel Schmol Farms Solar LLC CSG	IPP	Novel Schmol Farms Solar CSG	MN	62982	SCHM	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
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	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	9	61521	Pegasus Wind, LLC	IPP	Pegasus Wind	MI	61916	PWEC2	130.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	130.0
2020	9	61592	Pleinmont Solar 1 LLC	IPP	Pleinmont Solar 1	VA	62012	PLNM1	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	488.4
2020	9	63449	Renewable Properties, LLC	IPP	Ballenger Road Solar A	SC	63759	BALGR	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	9	63449	Renewable Properties, LLC	IPP	Soscol Ferry Solar	CA	63761	SSCLC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	63449	Renewable Properties, LLC	IPP	Soscol Ferry Solar	CA	63761	SSCLD	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	63449	Renewable Properties, LLC	IPP	White Horse Solar A	SC	63760	WHRSA	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	9	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	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	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	9	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	9	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	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	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	9	62819	Syncarpha Halifax, LLC	IPP	Syncarpha Halifax Hybrid	MA	62973	SYHAS	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2020	9	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	9	62044	TG High Prairie Wind, LLC	IPP	High Prairie Wind Farm	MO	62563	HPWF	400.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	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	9	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	9	62955	USS Hancock Solar	IPP	USS Hancock Solar LLC CSG	MN	63167	HNCKC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	9	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	9	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	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	9	63490	Williamsville Road LLC	IPP	Williamsville Hybrid	MA	63805	WBESS	3.3	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.3
2020	9	63490	Williamsville Road LLC	IPP	Williamsville Hybrid	MA	63805	WIL	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	10	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	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	East Brookfield Main Street Solar LLC	MA	63887	EBMSS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	10	61012	AES Distributed Energy	IPP	Middletown Solar 1, LLC Hybrid	NY	63415	BATT1	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 Hybrid	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	Mount Kisco Landfill Solar & Storage	NY	63774	KISCB	0.5	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	0.5
2020	10	59474	BQ Energy LLC	IPP	Mount Kisco Landfill Solar & Storage	NY	63774	KRS	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
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	VVVV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	10	63208	Bighorn Solar, LLC	IPP	Bighorn Solar	OR	63467	PGR16	2.2	Solar Photovoltaic	SUN	PV	(U)	

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	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	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10654	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	40.0
2020	10	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	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	9234	Indiana Municipal Power Agency	Electric Utility	Richmond Solar Park 4	IN	62791	SRIC4	7.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	7.1
2020	10	61853	Innogy Renewables US LLC	IPP	Scioto Ridge Wind Farm	OH	58780	1	249.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	249.8
2020	10	49893	Invenery 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	59195	Landfill Energy Systems	IPP	Zimmerman Energy	IN	59425	ZE#4	1.4	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	1.6
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	Elk Hill Solar 2	PA	63768	PAEH2	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2020	10	63394	MSAP 13, LLC	IPP	MSAP 13	NY	63675	TROYL	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	10	62915	Madison Energy Holdings LLC	IPP	ESIL-PFCHICAGO 2, LLC	IL	63889	PF2CH	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	10	62915	Madison Energy Holdings LLC	IPP	RJC CSG, LLC	MN	63816	RJC01	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	10	63204	Mohea Solar Energy Center, LLC	IPP	Mohea Solar Energy Center, LLC	SC	63463	PGR14	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	10	56990	NJR Clean Energy Ventures Corporation	IPP	Galloway Landfill	NJ	63698	GALLO	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2020	10	62869	Novel Benedix Solar LLC CSG	IPP	Novel Benedix Solar CSG	MN	63010	BNDX	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	10	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	10	63017	Novel Wayne Solar LLC	IPP	Novel Wayne Solar LLC CSG	MN	63249	WAYNE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	10	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	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	63449	Renewable Properties, LLC	IPP	Silveira Ranch Road Solar	CA	63762	SILVA	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	10	63449	Renewable Properties, LLC	IPP	Silveira Ranch Road Solar	CA	63762	SILVB	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	10	63449	Renewable Properties, LLC	IPP	Silveira Ranch Road Solar	CA	63762	SILVC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	10	63164	Robin Solar, LLC	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
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	63522	Santa Ana Storage 1	IPP	Johanna Energy Center, LLC	CA	63843	SASP1	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2020	10	61677	Sol Systems	IPP	ESA Bules 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	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	10	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	10	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	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	62668	Wheatridge Wind Energy, LLC	IPP	Wheatridge Hybrid	OR	62745	WIND	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2020	10	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	10	63472	Willow Creek Wind Power, LLC	IPP	Willow Creek Wind Power LLC	SD	62431	1	103.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	103.5
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 Hybrid	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 Hybrid	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 Hybrid	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 Hybrid	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	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	11	61012	AES Distributed Energy	IPP	West A&B Solar Project Hybrid	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 Hybrid	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	63526	Chestnut Westside, LLC	IPP	Chestnut	CA	63849	CHNUT	150.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.6
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	63511	Constellation Solar Illinois 2, LLC	IPP	Conagra Foods at St. Elmo	IL	63830	CFS	1.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.8
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	(U) Under construction, less than or equal to 50 percent complete	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	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	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	Hiliangaay Hydro	AK</								

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	11	49893	Invenery 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	Invenery 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	(U) Under construction, less than or equal to 50 percent complete	400.0
2020	11	63289	Key Capture Energy	IPP	NY3 Battery	NY	63585	NY3	3.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	3.0
2020	11	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Wildflower Solar 1	CA	62988	CAWF1	13.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	13.0
2020	11	61219	Longroad Energy Services LLC	IPP	Weaver Wind	ME	63132	WEAVR	72.6	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	72.6
2020	11	63440	Milford Solar I (NES)	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	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	11	63014	Novel Debra Solar LLC	IPP	Novel Debra Solar LLC CSG	MN	63247	DEBRA	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
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		150.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	150.0
2020	11	14354	PacifiCorp	Electric Utility	Ekola Flats	WY	62591		250.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.9
2020	11	14354	PacifiCorp	Electric Utility	TB Flats	WY	62516		503.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	503.2
2020	11	63141	Rancho Seco Solar II, LLC	IPP	Rancho Seco Solar II, LLC	CA	63387	RSS2	160.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	160.0
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	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	11	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	11	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	12	62685	10 Briggs Solar NG, LLC	IPP	10 Briggs Solar NG, LLC (East)	RI	62781	02818	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	12	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	12	62006	TX 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	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	12	57416	Acciona Energy USA Global, LLC	IPP	La Chalupa, LLC	TX	63624	LC	198.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 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	(T) Regulatory approvals received. 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	(V) Under construction, more than 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	(L) Regulatory approvals pending. Not under construction	15.0
2020	12	62118	Antelope Expansion 3B, LLC	IPP	Antelope Expansion 3B	CA	62674	ANX3B	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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	BTCO1	123.6	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	123.6
2020	12	62681	BT Cooke Solar, LLC	IPP	Ripsey Solar	TX	62773	BTCO2	59.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	59.0
2020	12	62682	BT Kellam Solar LLC	IPP	Kellam Solar	TX	62774	BTKEL	59.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	59.0
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	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLS4A	68.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	68.7
2020	12	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLS4B	68.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	68.7
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	63495	Centerfield Cooper Solar, LLC	IPP	Centerfield Cooper Solar, LLC	SC	63810	PGR24	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2020	12	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	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	Greewood	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 Marletown 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	63569	Cornille 2 Community Solar LLC	IPP	Cornille 2 Community (CSG)	NM	63899	CORN	1.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.4
2020	12	61060	Cypress Creek Renewables	IPP	Jester Solar	NC	60290	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	12	5248	Dominion Energy Inc	Electric Utility	Greensville Solar	VA	63745	GVSO	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	Malden 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 Hybrid	CA	260	BAT1	300.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	17.0
2020	12	58970	Ecoplexus, Inc	IPP	Camp San Luis Obispo	CA	63870	CPSLO		Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.2
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	58970	Ecoplexus, Inc	IPP	Kern Valley SP	CA	63							

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	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	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	12	56201	Engie North America	IPP	Las Lomas Wind Project	TX	63101	WTG	201.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	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	128.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	128.0
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	(OT) Other	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	63545	Golden Field Solar III, LLC	IPP	Golden Field Solar III, LLC	CA	63859	RCTR	192.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	192.0
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	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	12	61853	Innogy Renewables US LLC	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	126.0
2020	12	49893	Invenegy 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	Invenegy 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	Invenegy 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	Invenegy 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	Invenegy 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	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	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
2020	12	61219	Longroad Energy Services LLC	IPP	Little Bear 4	CA	62464	GEN01	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	(V) Under construction, more than 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	(U) Under construction, less than or equal to 50 percent complete	225.0
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	11	0.4	Petroleum Liquids	DFO	IC	(L) Regulatory approvals pending. Not under construction	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	12	0.4	Petroleum Liquids	DFO	IC	(L) Regulatory approvals pending. Not under construction	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	13	0.4	Petroleum Liquids	DFO	IC	(L) Regulatory approvals pending. Not under construction	0.4
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	14	0.4	Petroleum Liquids	DFO	IC	(L) Regulatory approvals pending. Not under construction	0.4
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	(U) Under construction, less than or equal to 50 percent complete	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	Electric Utility	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	62867	Novel Winegar Partnership Solar CSG	IPP	Novel Winegar Partnership Solar CSG	MN	63008	WINE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
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	63473	Odom Solar, LLC	IPP	SR Odom	GA	63814	ODOM	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2020	12	14232	Otter Tail Power Co	Electric Utility	Astoria Station	SD	61144	1	245.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 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	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	62780	RE Slate LLC	IPP	Slate	CA	63727	SLBES	300.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	315.0
2020	12	56215	RWE Renewables Americas LLC	IPP	Boiling Springs Wind Farm	OK	62871	BGSPS	148.4	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	148.4
2020	12	56215	RWE Renewables Americas LLC	IPP	Raymond Wind Farm, LLC	TX	62909	ERAYM	200.2	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.2
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	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	61624	SR Snipesville	IPP	Snipesville	GA								

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	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	DES1	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	DES2	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	(U) Under construction, less than or equal to 50 percent complete	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	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	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	12	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	12	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	12	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	12	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	12	61954	Techren Solar V LLC	IPP	Techren Solar V	NV	62440	TECH5	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	(U) Under construction, less than or equal to 50 percent complete	64.5
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	(U) Under construction, less than or equal to 50 percent complete	100.0
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	(U) Under construction, less than or equal to 50 percent complete	180.1
2020	12	20860	Wisconsin Public Service Corp	Electric Utility	Two Creeks Solar	WI	63105	1	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	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
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	OCE2S	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	OCE3S	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	42.7
2021	1	6455	Duke Energy Florida, LLC	Electric Utility	Twin Rivers Solar Power Plant	FL	63518	PV1	42.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	42.7
2021	1	58970	Ecoplexus, Inc	IPP	Mule Creek State Prison	CA	63876	MLCRK	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
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	SCOLL	4.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.3
2021	1	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
2021	1	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
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN7	9.0	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	56215	RWE Renewables Americas LLC	IPP	West Raymond Wind Farm LLC	TX	62855	WRAYM	239.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	239.8
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	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
2021	1	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
2021	1	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
2021	1	63257	Solar Carver 1, LLC	IPP	Solar Carver 1	MA	63541	BCRV1	2.0	Batteries	MWH	BA	(T) Regulatory approvals received. 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	(T) Regulatory approvals received. 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	(V) Under construction, more than 50 percent complete	1,105.0
2021	1	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
2021	1	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
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	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
2021	1	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
2021	1	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
2021	1	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
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	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	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLST2	115.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	115.0
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	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	250.0
2021	2	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(

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	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	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
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	2	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
2021	3	62627	Alchemy Renewable Energy	IPP	Logansport Solar	IN	63861	INLP	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2021	3	63568	BD Solar 1 LLC	IPP	Milo PV - BD Solar 1 LLC	ME	63894	MILPV	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2021	3	63567	BD Solar Augusta LLC	IPP	Augusta PV - BD Solar Augusta LLC	ME	63895	AUGPV	7.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	7.2
2021	3	63566	BD Solar Fairfield LLC	IPP	Fairfield PV - BD Solar Fairfield LLC	ME	63896	FAIPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	3	63565	BD Solar Oxford LLC	IPP	Oxford PV - BD Solar Oxford LLC	ME	63897	OXFPV	9.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	9.2
2021	3	57365	Consolidated Edison Solutions Inc	IPP	CES Agawam Tuckahoe Solar Hybrid	MA	63763	ATES	2.3	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	2.3
2021	3	57365	Consolidated Edison Solutions Inc	IPP	CES Agawam Tuckahoe Solar Hybrid	MA	63763	ATPV	3.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.6
2021	3	63523	DePue Holdings, LLC	IPP	DePue Holdings, LLC	IL	63845	DEPUE	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
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	9324	Indiana Michigan Power Co	Electric Utility	South Bend Solar	IN	63801	1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
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	(L) Regulatory approvals pending. Not under construction	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	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
2021	3	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
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	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	20159	Washington Parish Engy Ctr 1 LLC	IPP	Washington Parish Energy Center	LA	55486	CTG01	182.2	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	199.8
2021	3	20159	Washington Parish Engy Ctr 1 LLC	IPP	Washington Parish Energy Center	LA	55486	CTG02	182.2	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	199.8
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	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Orange Blossom Solar Center	FL	62919	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Palm Bay Solar	FL	62921	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Pelican Solar Center	FL	62924	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Rodeo Solar Center	FL	62917	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	6452	Florida Power & Light Co	Electric Utility	Sabal Palm Solar Center	FL	63110	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2021	4	49893	Invenenergy 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	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	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	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
2021	4	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
2021	4	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
2021	4	63550	Ventura Energy Storage, LLC	IPP	Saticoy	CA	63891	SATCY	100.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	100.0
2021	5	63012	2W Permian Solar, LLC	IPP	2W Permian Solar Project Hybrid	TX	63255	2WPBA	40.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	40.0
2021	5	63012	2W Permian Solar, LLC	IPP	2W Permian Solar Project Hybrid	TX	63255	2WP50	420.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	420.0
2021	5	62049	Aquamarine Westside LLC	IPP	Aquamarine	CA	62547	AQUAM	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
2021	5	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLST3	115.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	115.0
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	63441	Fogarty Solar LLC	IPP	Fogarty	NY	63747	GRA	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2021	5	6909	Gainesville Regional Utilities	Electric Utility	John R Kelly	FL	664	8.2	37.5	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	45.5
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	(V) Under construction, more than 50 percent complete	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	Brightside	TX	63223	UNIT1	50.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.7
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	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	4.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.4
2021	6	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	6	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	6	61118	Ameresco, Inc - Candlewood	IPP	Candlewood Solar	CT	61517	CANDL	25.0	Solar Photovoltaic	SUN			

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	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	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	(U) Under construction, less than or equal to 50 percent complete	16.0	
2021	6	58970	Ecoplexus, Inc	IPP	OAKBORO PV1	NC	63162	OAKPV	40.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	40.0	
2021	6	58970	Ecoplexus, Inc	IPP	Pleasant Hill PV1	NC	63787	PHILL	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0	
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	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	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	6	63499	Gunsight Solar, LLC	IPP	Gunsight Solar, LLC	SC	63813	PGR26	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0	
2021	6	63474	Hecate Energy Gedney Hill LLC	IPP	Hecate Energy Gedney Hill	NY	63815	GEDNY	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0	
2021	6	49893	Invenery 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	63453	Johnson Development Associates, Inc.	IPP	Pinson Solar Farm	SC	63777	1310	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	26.0	
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	63549	Lily Solar, LLC	IPP	Lily Solar	TX	63892	LILY	146.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	181.0	
2021	6	63549	Lily Solar, LLC	IPP	Lily Solar	TX	63892	LILYB	50.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	50.0	
2021	6	61219	Longroad Energy Services LLC	IPP	Muscle Shoals	AL	62462	GEN01	227.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	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 SC	IPP	PV1	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	62918	TPE Hopkins Solar Holdings1 LLC	IPP	Hopkins Hill CSG	RI	63136	HH1	4.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	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	
2021	6	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	
2021	6	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	
2021	6	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	
2021	6	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	
2021	6	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	
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	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	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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	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	(T) Regulatory approvals received. Not under construction	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	
2021	7	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	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	GPV	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	63451	Madero Grid, LLC	IPP	Madero Grid	TX	63757	MAD01	200.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	200.0	
2021	7	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	MCST1	230.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	230.0	
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	(U) Under construction, less than or equal to 50 percent complete	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	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	7	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	
2021	7	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	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	58769	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	61060	Cypress Creek Renewables	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0	
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	61944	GSRP	IPP	Chevron - Lost Hills Hybrid	CA	63545	BESS1	10.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	10.0	
2021	8	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	8	63396	Sturbridge Road Solar Farm, LLC	IPP	Sturbridge Road Solar	MA	63677	STURB	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0	
2021	8	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	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	8	63519	Trent River Solar, LLC	IPP	Trent River Solar, LLC	NC	63842	PGR25	78.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	78.7	
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	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	
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	</							

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	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	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
2021	9	63101	SE Aragon, LLC	IPP	Aragom Solar Project	TX	63329	IPAGN	180.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	180.0
2021	9	63493	Sugar Solar, LLC	IPP	Sugar Solar, LLC	NC	63807	PGR29	60.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	60.0
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	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	9	63420	Taos Mesa Energy Facility, LLC	IPP	Taos Mesa Energy Facility	NM	63728	BESS	12.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	12.0
2021	9	63412	Westmoreland County Solar Project, LLC	IPP	Westmoreland County Solar Project	VA	63896	WEST	19.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	19.9
2021	10	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	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	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	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	Milliani I Solar LLC	IPP	Milliani 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	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	10	61637	TUUSO 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	TUUSO Energy, LLC	IPP	Fumana Solar Project	WA	62070	FUMAR	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	10	61637	TUUSO 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	TUUSO 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	TUUSO 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 (Hybrid)	GA	63721	COOLS	213.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	213.0
2021	11	63414	Cool Springs Solar, LLC	IPP	Cool Springs Solar (Hybrid)	GA	63721	CSBAT	40.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	40.0
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	62842	Lightsources Renewable Energy Asset Management, LLC	IPP	Bighorn Solar 1	CO	63770	COBH1	240.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	240.0
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	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	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 Hybrid	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 Hybrid	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	63539	SunEast Fairway Solar LLC	IPP	SunEast Fairway Solar Project	NY	63865	Q#848	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63537	SunEast Grassy Knoll Solar LLC	IPP	SunEast Grassy Knoll Solar Project	NY	63863	Q#885	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63540	SunEast Highview Solar LLC	IPP	SunEast Highview Solar Project	NY	63866	Q#591	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63543	SunEast Hilltop Solar LLC	IPP	SunEast Hilltop Solar Project	NY	63868	Q#807	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63538	SunEast Limestone Solar LLC	IPP	SunEast Limestone Solar Project	NY	63864	Q#806	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	11	63536	SunEast Valley Solar LLC	IPP	SunEast Valley Solar Project	NY	63862	Q#828	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
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 Hybrid	NV	60654	GEN02	90.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	90.0
2021	12	61222	174 Power Global Corp.	IPP	Gerdau	TX	63797	GER01	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
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	57416	Acciona Energy USA Global, LLC	IPP	High Point Solar LLC	IL	63838	HPS	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2021	12	59495	Ameren Missouri	Electric Utility	Green City Renewable Energy Center Hybrid	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 Hybrid	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 Hybrid	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 Hybrid	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 Hybrid	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 Hybrid	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
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	EI Sol BESS	AZ	62964	EL50M	50.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.0</

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
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 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	BMSF	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2021	12	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	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	East Nash PV2	NC	63789	ENSH2	26.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	26.0
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	63559	Edmondson Ranch Wind, LLC	IPP	Edmondson Ranch Wind, LLC	TX	63890	ERWE	293.3	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	293.3
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	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	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	63553	Haymaker Energy Project LLC	IPP	Haymaker	MT	63878	HBESS	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
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	63497	Highest Power Solar, LLC	IPP	Highest Power Solar, LLC	NC	63812	PGR31	48.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	48.7
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	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
2021	12	49893	Invenery 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	Invenery 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	Invenery 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	Invenery 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	63552	Key Capture Energy	IPP	TX17 Nickel Prairie Storage	TX	63880	TX17	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
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	LGBS2	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	12	63496	Lick Creek Solar, LLC	IPP	Lick Creek Solar, LLC	NC	63811	PGR27	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
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	Owville Creek Solar 2, LLC	IPP	Owville 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	Owville Creek Solar, LLC	IPP	Owville 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	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
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	BLJKK	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									

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	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
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 Hybrid	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	63492	West River Solar, LLC	IPP	West River Solar, LLC	NC	63806	PGR28	40.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
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	63502	Partin Solar, LLC	IPP	Partin Solar	NC	63827	95	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2022	1	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECNV	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	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 Beville 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 Beville 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 Beville 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	63552	Key Capture Energy	IPP	TX18 Cottage Meadow Storage	TX	63879	TX18	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
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	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
2022	4	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
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	5	15399	Avangrid Renewables LLC	IPP	Camino Solar	CA	63508	CS2	11.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	11.0
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	61222	174 Power Global Corp.	IPP	Kupehau	HI	63799	KUP01	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2022	6	61222	174 Power Global Corp.	IPP	Kupehau	HI	63799	KUPB1	60.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	60.0
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	61714	Battle Solar	IPP	Battle Solar	SC	62182	24	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		

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	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	63556	Delilah Solar Energy II LLC	IPP	Delilah Solar Energy II LLC	TX	63884	GEN1	300.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	300.0
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
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	63524	Freepoint Commodities LLC	IPP	Raceway Solar	DE	63846	RACE	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
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	63437	Helena Wind, LLC	IPP	Helena Wind	TX	63738	HEL	250.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	250.0
2022	6	61746	Holiday Solar I	IPP	Holiday 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	61751	Juniper Solar	IPP	Juniper Solar	SC	62234	48	65.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	65.5
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	63515	Sparta Solar, LLC	IPP	Sparta Solar	TX	63840	1111	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
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	Invernergy 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	62842	Lightsources Renewable Energy Asset Management, LLC	IPP	Blackbear Solar 1	AL	63765	ALBB1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
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	Aratina Solar Center 1 Hybrid	CA	61							

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	8	60796	91MC 8me LLC	IPP	Aratina Solar Center 1 Hybrid	CA	61167	BESS	50.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	50.0
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	9	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Happy Solar 1	AR	63766	ARHA1	95.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	95.0
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	10	63541	SunEast Tabletop Solar LLC	IPP	SunEast Tabletop Solar Project	NY	63867	Q#869	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
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	61012	AES Distributed Energy	IPP	AES Waikoloa Solar	HI	63900	KLOAB	30.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	30.0
2022	11	61012	AES Distributed Energy	IPP	AES Waikoloa Solar	HI	63900	YKLOA	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
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	61222	174 Power Global Corp.	IPP	Atlas	AZ	63798	ATL01	300.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	300.0
2022	12	61222	174 Power Global Corp.	IPP	Atlas	AZ	63798	ATL1	300.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	300.0
2022	12	63448	Aiya Solar CEI, LLC	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	63494	Allora Solar, LLC	IPP	Allora Solar, LLC	SC	63808	PGR30	75.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	75.0
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	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
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	SONR1	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	59669	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	GEN1	180.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2022	12	62008	Hale Kuawehe Solar LLC	IPP	Hale Kuawehe 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 Kuawehe Solar LLC	IPP	Hale Kuawehe 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	GEN1	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	GEN2	550.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	660.0
2022	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
2022	12	49893	Invenery 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	Invenery 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	63504	Kruger Energy Mantura Solar, LLC	IPP	Kruger Energy Mantura Solar, LLC	VA	63822	KEMS	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
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	NT125	125.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	125.0
2022	12	63427	Neptune Energy Center, LLC	IPP	Neptune Energy Center	CO	63731	NT325	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2022	12	63238	OE_ALC	IPP	AL Solar C LLC	AL	63513	OEOALC	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	63501	Panther Grove Wind, LLC	IPP	Panther Grove Wind, LLC	IL	63818	78787	400.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	400.0
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	Willowbrook Solar 1, LLC	OH	63877	WBS	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
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	63454	Thunder Wolf Energy Center, LLC	IPP	Thunder Wolf Energy Center	CO	63776	TW100	100.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	12	63454	Thunder Wolf Energy Center, LLC	IPP	Thunder Wolf Energy Center	CO	63776	TW300	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
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	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
2023	1	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
2023	1	18454												

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	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	6	63520	Arida Solar	IPP	Arida Solar	NV	63841	ARIDA	370.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	370.0
2023	6	63557	Delliah Solar Energy III LLC	IPP	Delliah Solar Energy III LLC	TX	63885	GEN1	310.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	310.0
2023	6	63503	Hardin Solar Energy II LLC	IPP	Hardin Solar Energy II LLC	OH	63828	GEN1	170.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	170.0
2023	6	63554	Samson Solar Energy II LLC	IPP	Samson Solar Energy II LLC	TX	63882	GEN1	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2023	6	63555	Samson Solar Energy III LLC	IPP	Samson Solar Energy III LLC	TX	63883	GEN1	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2023	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
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	6	63527	Westlands Cherry, LLC	IPP	Cherry	CA	63850	CHERY	249.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	249.7
2023	6	63528	Westlands Grape, LLC	IPP	Grape	CA	63851	GRAPE	246.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	246.4
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
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	Rokey 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</							

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	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	63464	Crossroads Solar, LLC	IPP	Crossroads Solar (PA)	PA	63785	CROSS	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	12	63553	Haymaker Energy Project LLC	IPP	Haymaker	MT	63878	HAY	600.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	600.0
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	63463	Palomino Solar, LLC	IPP	Palomino Solar	OH	63784	PLMNO	50.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
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	63488	Shady Hills Energy Center, LLC	IPP	Shady Hills Combined Cycle Facility	FL	63802	G001	546.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	573.0
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	3	63465	Candela Renewables, LLC	IPP	Rough Hat	NV	63782	RH1	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2024	3	63465	Candela Renewables, LLC	IPP	Rough Hat 2	NV	63783	RH2	400.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	400.0
2024	4	63558	Chickahominy Power LLC	IPP	Chickahominy Power LLC	VA	63886	CP001	557.3	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	572.1
2024	5	63558	Chickahominy Power LLC	IPP	Chickahominy Power LLC	VA	63886	CP002	557.3	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	572.1
2024	6	63558	Chickahominy Power LLC	IPP	Chickahominy Power LLC	VA	63886	CP003	557.3	Natural Gas Fired Combined Cycle	NG	CS	(T) Regulatory approvals received. Not under construction	572.1
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	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
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	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
2025	1	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
2025	1	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
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
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	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	7	2848	California Institute-Technology	Commercial	California Institute of Technology	CA	10262	GEN6	9.0	Natural Gas Fired Combined Cycle	NG	CT
2020	7	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailey	IN	995	10	31.0	Natural Gas Fired Combustion Turbine	NG	GT
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	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2020	8	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
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
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	Oklauion	TX	127	1	650.0	Conventional Steam Coal	SUB	ST
2020	10	4385	Anderson Power Products	Industrial	Anderson Power Products Division	MA	10553	3622	0.1	Petroleum Liquids	DFO	IC
2020	10	4385	Anderson Power Products	Industrial	Anderson Power Products Division	MA	10553	6033	0.3	Petroleum Liquids	DFO	IC
2020	10	4385	Anderson Power Products	Industrial	Anderson Power Products Division	MA	10553	6035	0.3	Petroleum Liquids	DFO	IC
2020	10	4385	Anderson Power Products	Industrial	Anderson Power Products Division	MA	10553	6046	0.3	Petroleum Liquids	DFO	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	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG1	2.8	Natural Gas Internal Combustion Engine	NG	IC
2020	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG2	2.8	Natural Gas Internal Combustion Engine	NG	IC
2020	10	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	EG3	2.8	Natural Gas Internal Combustion Engine	NG	IC
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	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	1	40.0	Natural Gas Steam Turbine	NG	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	4	64.0	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	5	63.1	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	6	62.8	Conventional Steam Coal	SUB	ST
2020	12	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	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2020	12	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
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

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	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	9273	Indianapolis Power & Light Co	Electric Utility	AES Petersburg	IN	994	ST1	222.5	Conventional Steam Coal	BIT	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 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	6909	Gainesville Regional Utilities	Electric Utility	John R Kelly	FL	664	8	36.0	Natural Gas Fired Combined Cycle	NG	CA
2021	6	12628	GenOn Chalk Point, LLC	IPP	Chalk Point LLC	MD	1571	ST1	333.1	Conventional Steam Coal	BIT	ST
2021	6	12628	GenOn Chalk Point, LLC	IPP	Chalk Point LLC	MD	1571	ST2	336.9	Conventional Steam Coal	BIT	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	ST
2021	6	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	205.3	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
2021	12	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H4	0.5	Conventional Hydroelectric	WAT	HY
2021	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	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	9210	International Paper Co-Riegelwood	Industrial	International Paper Riegelwood Mill	NC	54656	NO 1	7.8	Wood/Wood Waste Biomass	BLQ	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	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

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	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	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	6	77.0	Conventional Steam Coal	SUB	ST
2022	12	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	7	131.0	Conventional Steam Coal	SUB	ST
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	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	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
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	50129	Georgia-Pacific Cons Op LLC Port Hudson	Industrial	Georgia-Pacific Port Hudson	LA	10612	GEN2	60.0	Natural Gas Steam Turbine	NG	ST
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

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	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
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
2024	1	335	Air Liquide Large Industries U.S. LP	Industrial	Geismar Cogen	LA	56787	GTG	72.5	Natural Gas Fired Combustion Turbine	NG	GT
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	1	18642	Tennessee Valley Authority	Electric Utility	Bull Run	TN	3396	1	870.0	Conventional Steam Coal	BIT	ST
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	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	4	257.0	Conventional Steam Coal	BIT	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	5	259.0	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

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
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	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
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
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	2.9	Conventional Steam Coal	SUB	ST
2025	12	9417	Interstate Power and Light Co	Electric Utility	Prairie Creek	IA	1073	3	25.8	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	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	14.0	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	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	12.7	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	13.7	Natural Gas Fired Combustion Turbine	NG	GT
2026	6	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	5.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	10	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	GT1	17.5	Natural Gas Fired Combustion Turbine	NG	GT
2026	10	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	GT2	17.5	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	5416	Duke Energy Carolinas, LLC	Electric Utility	James E. Rogers Energy Complex	NC	2721	5	544.0	Conventional Steam Coal	BIT	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
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	1	14354	PacifiCorp	Electric Utility	Dave Johnston	WY	4158	3	220.0	Conventional Steam Coal	SUB	ST
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	9	30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	2	410.0	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

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
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
2029	12	3989	City of Colorado Springs - (CO)	Electric Utility	Ray D Nixon	CO	8219	1	208.0	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
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	15143	Platte River Power Authority	Electric Utility	Rawhide	CO	6761	1	280.0	Conventional Steam Coal	SUB	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
2032	12	16572	Salt River Project	Electric Utility	Coronado	AZ	6177	CO1	380.0	Conventional Steam Coal	RC	ST
2032	12	16572	Salt River Project	Electric Utility	Coronado	AZ	6177	CO2	382.0	Conventional Steam Coal	RC	ST
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	5416	Duke Energy Carolinas, LLC	Electric Utility	Marshall (NC)	NC	2727	1	370.0	Conventional Steam Coal	BIT	ST
2034	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Marshall (NC)	NC	2727	2	370.0	Conventional Steam Coal	BIT	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

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
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					
	Time Adjusted Capacity	Capacity Factor	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
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%
May	224,525.1	28.4%	274,338.4	48.2%	129,014.3	9.3%	70,285.4	12.4%	5,157.5	11.1%	11,594.3	11.6%	13,770.4	0.8%	5,268.1	1.4%
June	223,559.6	41.4%	275,980.0	59.6%	128,906.1	13.7%	70,736.6	18.1%	5,150.2	14.6%	11,134.1	16.5%	13,706.5	1.5%	5,267.8	1.7%

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	
	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	Photovoltaic Time Adjusted Capacity	Photovoltaic Capacity Factor	Thermal Time Adjusted Capacity	Thermal 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%
May	2,555.4	74.2%	79,763.4	49.7%	97,102.9	89.1%	4,723.7	61.6%	2,542.5	61.6%	38,046.0	32.3%	1,758.1	31.5%	106,104.3	35.4%	8,372.4	57.7%
June	2,555.4	72.5%	79,682.3	49.8%	97,120.9	96.1%	4,661.8	58.7%	2,522.0	61.0%	38,523.0	32.2%	1,758.1	29.7%	106,996.8	38.9%	8,372.3	58.0%

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

Year/Month	Battery		Pumped Storage	
	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%	22,762.7	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%
May	1,045.9	3.9%	22,898.9	10.8%
June	1,055.8	4.1%	22,700.3	13.3%

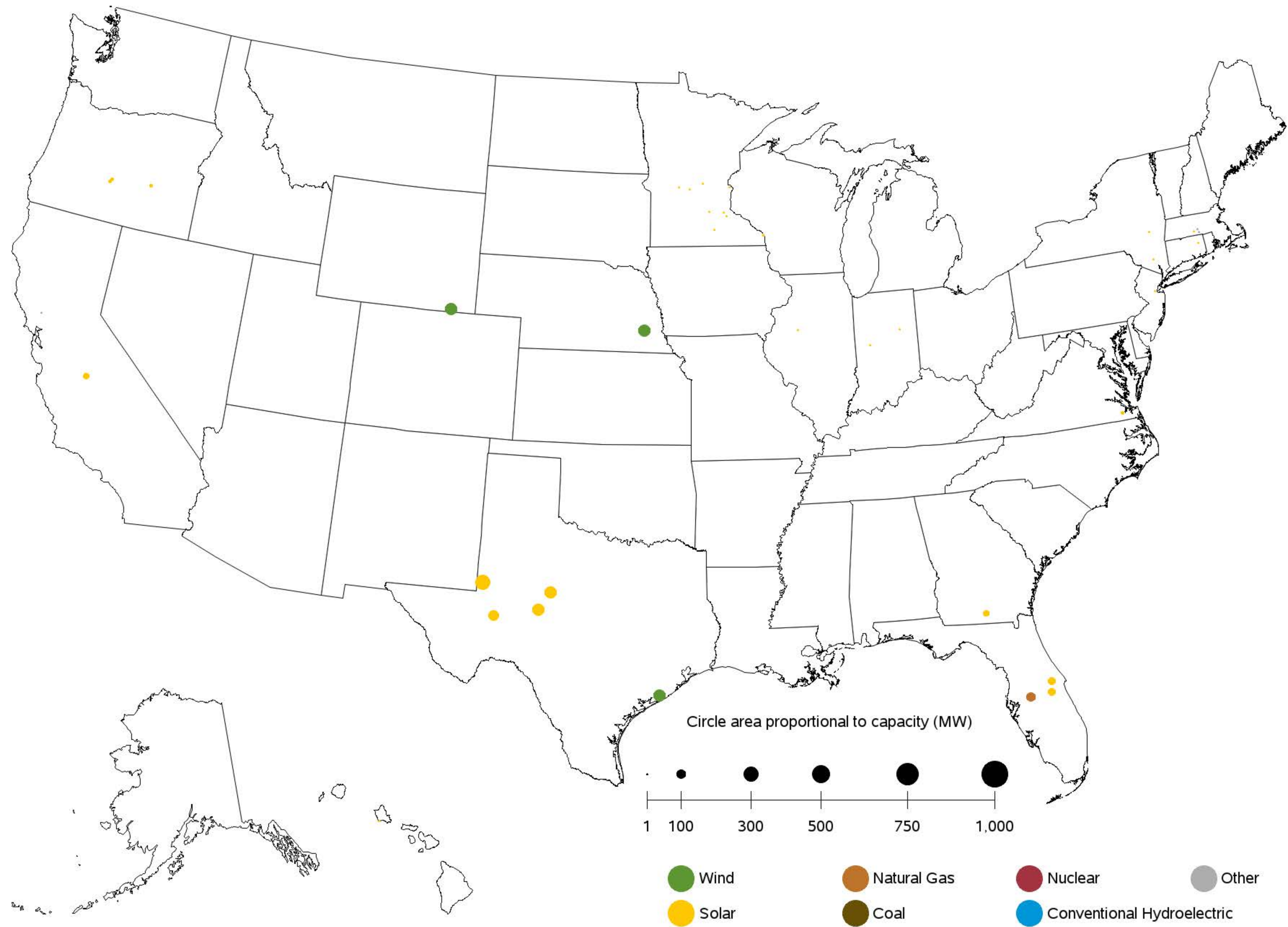
Values for 2018 and prior years are final. Values for 2019 and 2020 are preliminary.

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.

Usage factors are a comparison of gross generation with available capacity. See the technical note for an explanation of how usage factors are calculated.

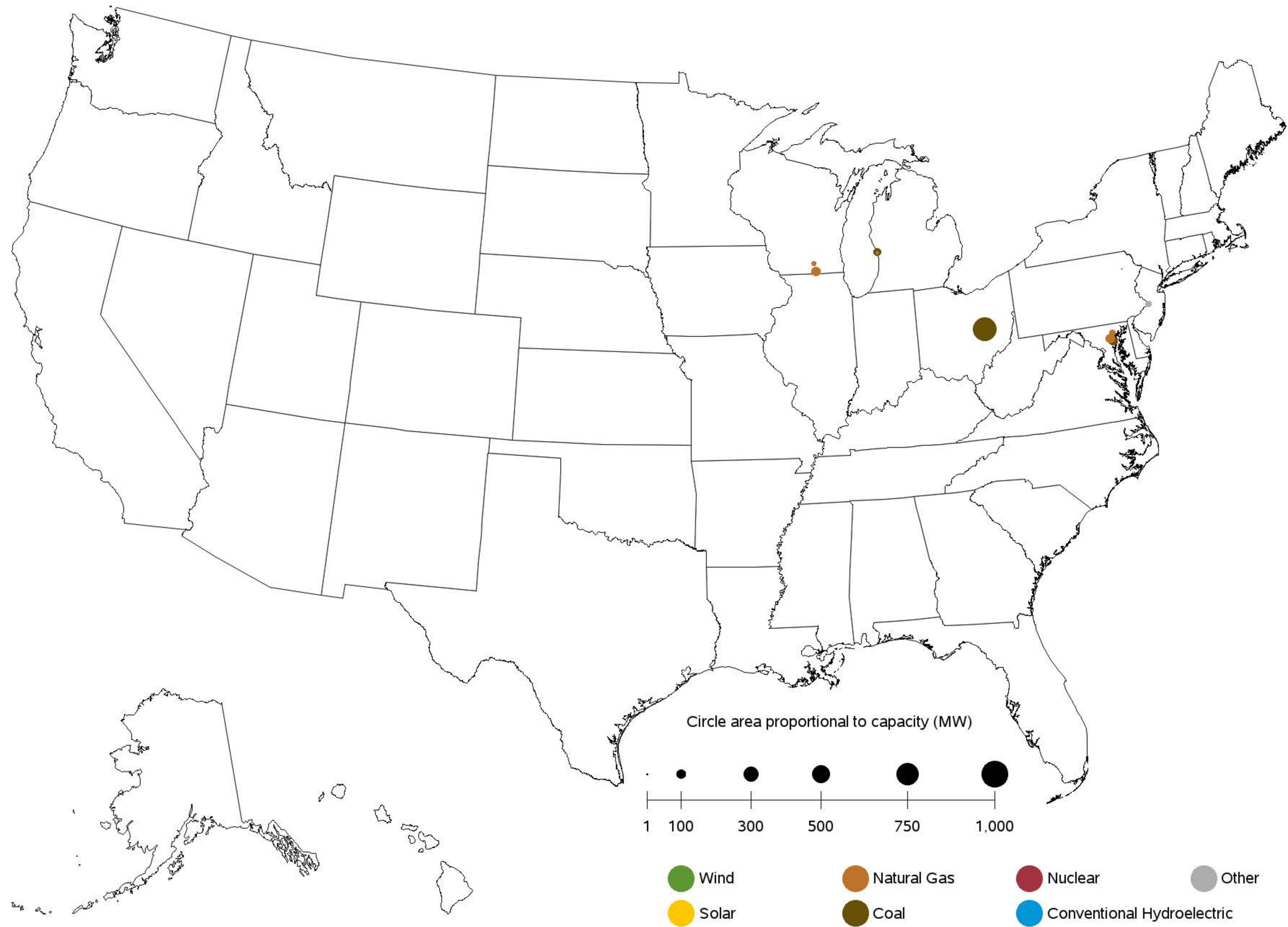
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.A. Utility-Scale Generating Units Added in June 2020



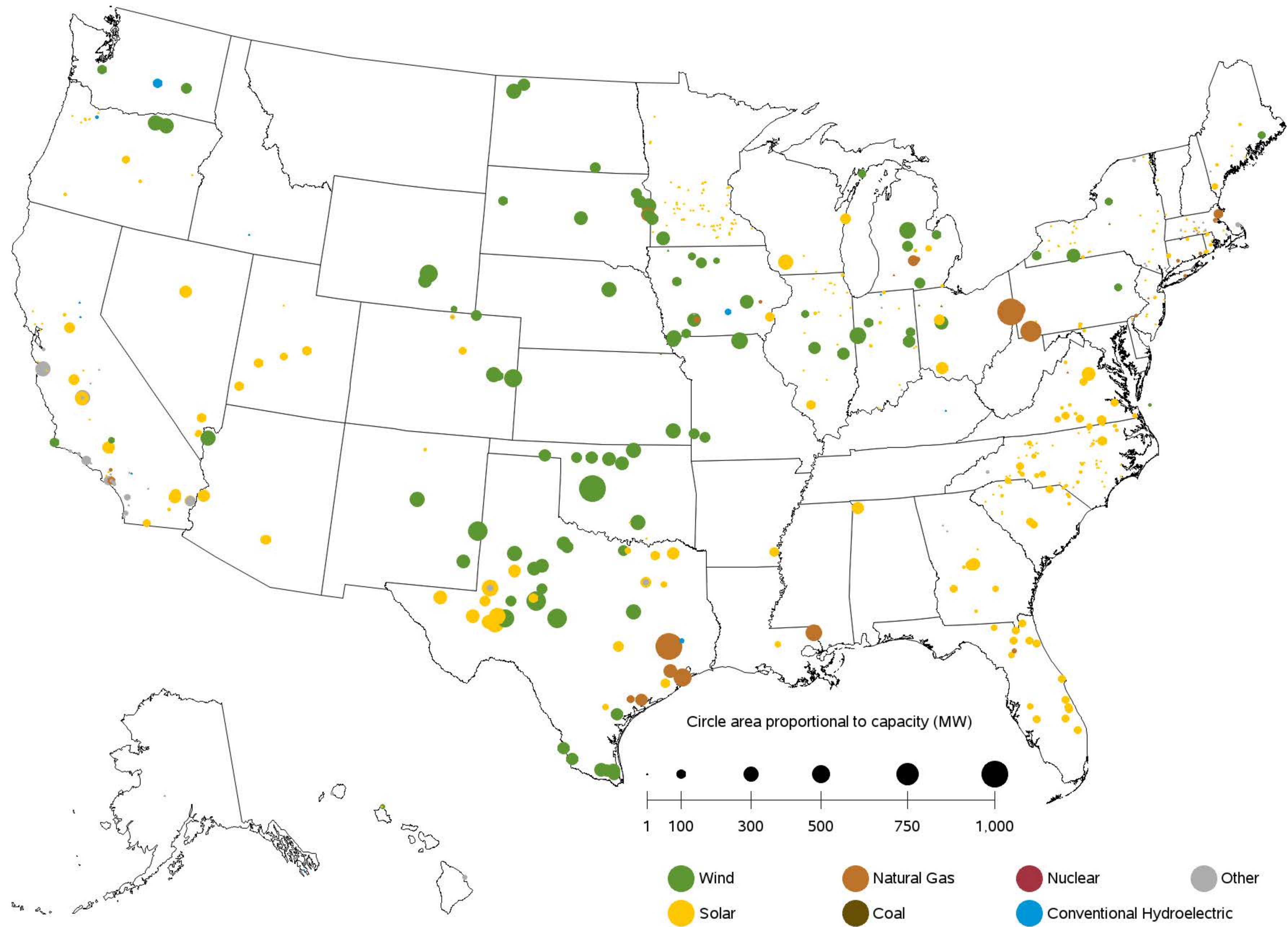
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in June 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 July 2020 to June 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)

Period	Canada		Mexico		U.S. Total		
	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
April	4,433,870	1,112,187	253,564	363,057	4,687,434	1,475,244	3,212,190
May	4,958,324	1,043,022	217,749	472,500	5,176,073	1,515,522	3,660,551
June	4,915,670	867,147	286,111	434,614	5,201,781	1,301,761	3,900,020

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 - June 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
May	651	500	160	0	1,311
June	642	623	173	0	1,438
Year to Date					
2018	2,772	4,028	1,062	0	7,862
2019	2,807	3,738	1,004	0	7,548
2020	3,139	3,432	913	0	7,484
Rolling 12 Months Ending in June					
2019	6,138	7,912	2,070	0	16,120
2020	6,537	7,594	1,958	0	16,088

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 - June 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
May	151	118	37	0	307
June	109	119	29	0	257
Year to Date					
2018	568	938	203	0	1,709
2019	612	864	209	0	1,686
2020	654	800	190	0	1,643
Rolling 12 Months Ending in June					
2019	1,309	1,819	412	0	3,540
2020	1,372	1,745	400	0	3,517

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 - June 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
May	1,340,943	124,631	585	0	1,466,159
June	1,341,826	124,641	586	0	1,467,053
Rolling 12 Months Ending in June					
2019	1,347,719	126,224	598	0	1,474,541
2020	1,341,477	124,813	588	0	1,466,878

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 - June 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
May	23.24	23.63	23.21	--	23.38
June	16.99	19.03	16.89	--	17.86
Year to Date					
2018	20.49	23.30	19.12	--	21.74
2019	21.80	23.12	20.87	--	22.33
2020	20.84	23.30	20.77	--	21.96
Rolling 12 Months Ending in June					
2019	21.33	22.99	19.88	--	21.96
2020	20.99	22.98	20.45	--	21.86

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-June 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
May	454	98	1,346	33	3,607	155	99	5,791
June	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, June 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	20	22	0	2	0	0	10
Connecticut	0	52	0	2	0	0	36
Maine	46	6	0	12	0	0	15
Massachusetts	0	61	0	6	0	0	24
New Hampshire	0	14	0	0	0	0	19
Rhode Island	0	184	0	10	0	0	0
Vermont	0	59	0	0	0	0	22
Middle Atlantic	4	14	0	1	59	0	3
New Jersey	0	74	0	3	0	0	0
New York	0	23	0	2	0	0	2
Pennsylvania	4	14	0	1	116	0	13
East North Central	1	10	9	2	31	0	10
Illinois	1	5	0	6	0	0	41
Indiana	1	2	0	3	39	0	41
Michigan	2	16	0	3	0	0	18
Ohio	4	9	19	2	66	0	40
Wisconsin	0	119	0	5	0	0	14
West North Central	1	13	0	8	0	0	7
Iowa	1	16	0	11	0	0	23
Kansas	0	19	0	26	0	0	0
Minnesota	6	64	0	14	0	0	22
Missouri	0	5	0	10	0	0	17
Nebraska	4	164	0	42	0	0	19
North Dakota	0	17	0	41	0	0	12
South Dakota	0	179	0	45	0	0	9
South Atlantic	1	11	4	1	0	0	5
Delaware	0	94	0	6	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	9	0	1	0	0	56
Georgia	1	26	37	3	0	0	10
Maryland	0	7	0	3	0	0	4
North Carolina	0	27	0	2	0	0	8
South Carolina	0	50	0	2	0	0	12
Virginia	0	24	0	3	0	0	14
West Virginia	2	0	0	8	0	0	19
East South Central	0	2	0	1	109	0	5
Alabama	0	19	0	2	235	0	7
Kentucky	0	0	0	3	0	0	9
Mississippi	0	2	0	2	0	0	0
Tennessee	0	1	0	4	0	0	8
West South Central	0	7	0	1	6	0	8
Arkansas	0	0	0	6	0	0	11
Louisiana	0	43	0	2	10	0	25
Oklahoma	0	1	0	3	0	0	14
Texas	0	14	6	1	4	0	14
Mountain	1	13	0	1	7	0	4
Arizona	0	7	0	1	0	0	5
Colorado	0	87	0	2	0	0	16
Idaho	246	0	0	29	0	0	7
Montana	15	83	0	66	0	0	7
Nevada	0	0	0	1	0	0	2
New Mexico	0	138	0	4	0	0	65
Utah	0	3	0	3	0	0	24
Wyoming	3	1	0	18	8	0	23
Pacific Contiguous	0	29	0	2	2	0	1
California	0	26	0	1	3	0	6
Oregon	0	0	0	14	0	0	3
Washington	0	136	0	18	0	0	1
Pacific Noncontiguous	16	2	0	33	0	0	18
Alaska	43	6	0	33	0	0	18
Hawaii	0	2	0	0	0	0	95
U.S. Total	0	2	3	1	8	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, June 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	7	5	0	1	2
Connecticut	0	0	0	19	10	0	0	1
Maine	0	0	0	64	8	0	0	6
Massachusetts	0	0	0	8	6	0	3	4
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	28	16	0	0	9
Vermont	0	0	0	21	13	0	0	13
Middle Atlantic	0	0	0	6	4	0	0	1
New Jersey	0	0	0	7	5	0	0	2
New York	0	0	0	11	6	0	1	1
Pennsylvania	0	0	0	26	7	0	0	1
East North Central	0	0	0	7	3	0	4	1
Illinois	0	0	0	23	4	0	0	1
Indiana	0	0	0	13	6	0	0	1
Michigan	0	0	0	18	6	0	24	1
Ohio	0	0	0	9	5	0	0	2
Wisconsin	0	0	0	35	10	0	34	2
West North Central	0	0	0	6	2	0	7	1
Iowa	0	0	0	64	3	0	0	2
Kansas	0	0	0	19	2	0	0	2
Minnesota	0	0	0	7	5	0	3	3
Missouri	0	0	0	24	5	0	0	1
Nebraska	0	0	0	40	5	0	0	3
North Dakota	0	0	0	0	5	0	60	2
South Dakota	0	0	0	163	6	0	0	6
South Atlantic	0	0	0	1	1	0	0	0
Delaware	0	0	0	34	24	0	0	6
District of Columbia	0	0	0	86	22	0	0	16
Florida	0	0	0	1	1	0	1	1
Georgia	0	0	0	3	2	0	0	2
Maryland	0	0	0	10	10	0	0	1
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	5	4	0	0	1
Virginia	0	0	0	6	4	0	0	2
West Virginia	0	0	0	0	13	0	0	2
East South Central	0	0	0	5	3	0	6	1
Alabama	0	0	0	10	4	0	0	1
Kentucky	0	0	0	25	16	0	0	1
Mississippi	0	0	0	3	4	0	0	1
Tennessee	0	0	0	12	8	0	56	1
West South Central	0	0	0	1	1	0	2	1
Arkansas	0	0	0	5	7	0	0	2
Louisiana	0	0	0	177	7	0	0	1
Oklahoma	0	0	0	35	2	0	0	2
Texas	0	0	0	1	2	0	5	1
Mountain	0	8	0	1	2	0	8	1
Arizona	0	0	0	2	3	0	0	0
Colorado	0	0	0	5	4	0	0	1
Idaho	0	43	0	8	9	0	0	6
Montana	0	0	0	38	11	0	0	6
Nevada	0	8	0	2	3	0	0	1
New Mexico	0	0	0	6	3	0	0	2
Utah	0	20	0	4	5	0	58	1
Wyoming	0	0	0	0	9	0	0	3
Pacific Contiguous	0	4	0	1	2	0	2	1
California	0	3	0	1	2	0	2	1
Oregon	0	31	0	8	5	0	0	3
Washington	0	0	0	57	6	0	0	1
Pacific Noncontiguous	0	30	0	9	11	0	0	6
Alaska	0	0	0	0	41	0	0	15
Hawaii	0	30	0	9	12	0	0	3
U.S. Total	0	4	0	1	1	0	1	0

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	20	22	0	2	0	0	10
Connecticut	0	52	0	2	0	0	36
Maine	46	6	0	12	0	0	15
Massachusetts	0	61	0	6	0	0	24
New Hampshire	0	14	0	0	0	0	19
Rhode Island	0	184	0	10	0	0	0
Vermont	0	59	0	0	0	0	22
Middle Atlantic	4	14	0	1	59	0	3
New Jersey	0	74	0	3	0	0	0
New York	0	23	0	2	0	0	2
Pennsylvania	4	14	0	1	116	0	13
East North Central	1	10	9	2	31	0	10
Illinois	1	5	0	6	0	0	41
Indiana	1	2	0	3	39	0	41
Michigan	2	16	0	3	0	0	18
Ohio	4	9	19	2	66	0	40
Wisconsin	0	119	0	5	0	0	14
West North Central	1	13	0	8	0	0	7
Iowa	1	16	0	11	0	0	23
Kansas	0	19	0	26	0	0	0
Minnesota	6	64	0	14	0	0	22
Missouri	0	5	0	10	0	0	17
Nebraska	4	164	0	42	0	0	19
North Dakota	0	17	0	41	0	0	12
South Dakota	0	179	0	45	0	0	9
South Atlantic	1	11	4	1	0	0	5
Delaware	0	94	0	6	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	9	0	1	0	0	56
Georgia	1	26	37	3	0	0	10
Maryland	0	7	0	3	0	0	4
North Carolina	0	27	0	2	0	0	8
South Carolina	0	50	0	2	0	0	12
Virginia	0	24	0	3	0	0	14
West Virginia	2	0	0	8	0	0	19
East South Central	0	2	0	1	109	0	5
Alabama	0	19	0	2	235	0	7
Kentucky	0	0	0	3	0	0	9
Mississippi	0	2	0	2	0	0	0
Tennessee	0	1	0	4	0	0	8
West South Central	0	7	0	1	6	0	8
Arkansas	0	0	0	6	0	0	11
Louisiana	0	43	0	2	10	0	25
Oklahoma	0	1	0	3	0	0	14
Texas	0	14	6	1	4	0	14
Mountain	1	13	0	1	7	0	4
Arizona	0	7	0	1	0	0	5
Colorado	0	87	0	2	0	0	16
Idaho	246	0	0	29	0	0	7
Montana	15	83	0	66	0	0	7
Nevada	0	0	0	1	0	0	2
New Mexico	0	138	0	4	0	0	65
Utah	0	3	0	3	0	0	24
Wyoming	3	1	0	18	8	0	23
Pacific Contiguous	0	29	0	2	2	0	1
California	0	26	0	1	3	0	6
Oregon	0	0	0	14	0	0	3
Washington	0	136	0	18	0	0	1
Pacific Noncontiguous	16	2	0	33	0	0	18
Alaska	43	6	0	33	0	0	18
Hawaii	0	2	0	0	0	0	95
U.S. Total	0	2	3	1	8	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 June 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	7	5	0	1	2
Connecticut	0	0	0	19	10	0	0	1
Maine	0	0	0	64	8	0	0	6
Massachusetts	0	0	0	8	6	0	3	4
New Hampshire	0	0	0	0	16	0	0	2
Rhode Island	0	0	0	28	16	0	0	9
Vermont	0	0	0	21	13	0	0	13
Middle Atlantic	0	0	0	6	4	0	0	1
New Jersey	0	0	0	7	5	0	0	2
New York	0	0	0	11	6	0	1	1
Pennsylvania	0	0	0	26	7	0	0	1
East North Central	0	0	0	7	3	0	4	1
Illinois	0	0	0	23	4	0	0	1
Indiana	0	0	0	13	6	0	0	1
Michigan	0	0	0	18	6	0	24	1
Ohio	0	0	0	9	5	0	0	2
Wisconsin	0	0	0	35	10	0	34	2
West North Central	0	0	0	6	2	0	7	1
Iowa	0	0	0	64	3	0	0	2
Kansas	0	0	0	19	2	0	0	2
Minnesota	0	0	0	7	5	0	3	3
Missouri	0	0	0	24	5	0	0	1
Nebraska	0	0	0	40	5	0	0	3
North Dakota	0	0	0	0	5	0	60	2
South Dakota	0	0	0	163	6	0	0	6
South Atlantic	0	0	0	1	1	0	0	0
Delaware	0	0	0	34	24	0	0	6
District of Columbia	0	0	0	86	22	0	0	16
Florida	0	0	0	1	1	0	1	1
Georgia	0	0	0	3	2	0	0	2
Maryland	0	0	0	10	10	0	0	1
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	5	4	0	0	1
Virginia	0	0	0	6	4	0	0	2
West Virginia	0	0	0	0	13	0	0	2
East South Central	0	0	0	5	3	0	6	1
Alabama	0	0	0	10	4	0	0	1
Kentucky	0	0	0	25	16	0	0	1
Mississippi	0	0	0	3	4	0	0	1
Tennessee	0	0	0	12	8	0	56	1
West South Central	0	0	0	1	1	0	2	1
Arkansas	0	0	0	5	7	0	0	2
Louisiana	0	0	0	177	7	0	0	1
Oklahoma	0	0	0	35	2	0	0	2
Texas	0	0	0	1	2	0	5	1
Mountain	0	8	0	1	2	0	8	1
Arizona	0	0	0	2	3	0	0	0
Colorado	0	0	0	5	4	0	0	1
Idaho	0	43	0	8	9	0	0	6
Montana	0	0	0	38	11	0	0	6
Nevada	0	8	0	2	3	0	0	1
New Mexico	0	0	0	6	3	0	0	2
Utah	0	20	0	4	5	0	58	1
Wyoming	0	0	0	0	9	0	0	3
Pacific Contiguous	0	4	0	1	2	0	2	1
California	0	3	0	1	2	0	2	1
Oregon	0	31	0	8	5	0	0	3
Washington	0	0	0	57	6	0	0	1
Pacific Noncontiguous	0	30	0	9	11	0	0	6
Alaska	0	0	0	0	41	0	0	15
Hawaii	0	30	0	9	12	0	0	3
U.S. Total	0	4	0	1	1	0	1	0

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

Table A.1.C. Relative Standard Error (Percent) for Small Scale Solar Generation and Capacity by Sector, Census Division and State, June 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	1	2	.	0
New Hampshire	1	0	0	.	0
Rhode Island	0	0	0	.	0
Vermont	2	9	63	.	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	6	3	8	.	3
Illinois	8	5	0	.	5
Indiana	16	3	0	.	8
Michigan	10	20	94	.	9
Ohio	15	4	9	.	6
Wisconsin	26	19	12	.	16
West North Central	1	1	5	.	1
Iowa	3	1	24	.	1
Kansas	5	3	0	.	3
Minnesota	2	3	5	.	2
Missouri	1	1	7	.	1
Nebraska	7	17	32	.	6
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
South Atlantic	2	2	2	.	2
Delaware	9	5	21	.	6
District of Columbia	0	0	0	.	0
Florida	5	6	2	.	4
Georgia	231	47	0	.	137
Maryland	2	2	3	.	1
North Carolina	9	3	0	.	6
South Carolina	7	6	0	.	6
Virginia	12	4	5	.	8
West Virginia	0	0	0	.	0
East South Central	9	4	0	.	6
Alabama	0	0	0	.	0
Kentucky	10	5	0	.	8
Mississippi	22	10	0	.	13
Tennessee	0	0	0	.	0
West South Central	3	5	5	.	3
Arkansas	18	16	0	.	12
Louisiana	5	8	0	.	4
Oklahoma	23	16	0	.	18
Texas	5	7	0	.	4
Mountain	0	0	1	.	0
Arizona	0	0	0	.	0
Colorado	3	1	27	.	2
Idaho	2	2	0	.	2
Montana	9	2	0	.	7
Nevada	0	0	0	.	0
New Mexico	3	1	49	.	2
Utah	1	1	0	.	1
Wyoming	15	13	0	.	12
Pacific Contiguous	0	0	0	.	0
California	0	0	0	.	0
Oregon	1	1	7	.	1
Washington	2	3	30	.	1
Pacific Noncontiguous	0	0	0	.	0
Alaska	3	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, June 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	24	0	62	0	0	23
Connecticut	0	31	0	0	0	0	89
Maine	0	0	0	0	0	0	361
Massachusetts	0	77	0	74	0	0	45
New Hampshire	0	3	0	0	0	0	43
Rhode Island	0	0	0	0	0	0	0
Vermont	0	59	0	0	0	0	35
Middle Atlantic	0	25	0	5	0	0	1
New Jersey	0	0	0	110	0	0	0
New York	0	25	0	5	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	1	16	0	4	0	0	11
Illinois	0	26	0	14	0	0	68
Indiana	1	2	0	6	0	0	41
Michigan	2	16	0	8	0	0	19
Ohio	8	30	0	7	0	0	46
Wisconsin	0	120	0	6	0	0	15
West North Central	1	13	0	9	0	0	7
Iowa	0	16	0	11	0	0	23
Kansas	0	19	0	26	0	0	0
Minnesota	6	67	0	15	0	0	26
Missouri	0	5	0	15	0	0	17
Nebraska	4	164	0	42	0	0	19
North Dakota	0	17	0	41	0	0	12
South Dakota	0	180	0	45	0	0	9
South Atlantic	0	14	0	1	0	0	6
Delaware	0	0	0	0	0	0	0
Florida	0	9	0	1	0	0	56
Georgia	0	27	0	3	0	0	10
Maryland	0	54	0	0	0	0	0
North Carolina	0	26	0	2	0	0	8
South Carolina	0	53	0	3	0	0	12
Virginia	0	34	0	4	0	0	14
West Virginia	0	0	0	0	0	0	32
East South Central	0	1	0	2	0	0	5
Alabama	0	0	0	5	0	0	7
Kentucky	0	0	0	4	0	0	9
Mississippi	0	5	0	2	0	0	0
Tennessee	0	1	0	4	0	0	8
West South Central	0	6	0	2	0	0	8
Arkansas	0	0	0	6	0	0	12
Louisiana	0	43	0	3	0	0	0
Oklahoma	0	1	0	4	0	0	14
Texas	0	8	0	4	0	0	14
Mountain	1	14	0	1	0	0	4
Arizona	0	7	0	1	0	0	5
Colorado	0	87	0	1	0	0	18
Idaho	0	0	0	41	0	0	7
Montana	0	1,046	0	68	0	0	7
Nevada	0	0	0	1	0	0	0
New Mexico	0	138	0	5	0	0	65
Utah	0	3	0	3	0	0	24
Wyoming	4	1	0	40	0	0	24
Pacific Contiguous	0	65	0	4	0	0	1
California	0	64	0	2	0	0	5
Oregon	0	0	0	25	0	0	3
Washington	0	1,889	0	22	0	0	1
Pacific Noncontiguous	60	2	0	34	0	0	19
Alaska	60	6	0	34	0	0	19
Hawaii	0	3	0	0	0	0	0
U.S. Total	0	3	0	1	0	0	1

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

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

Electric Utilities by Census Division and State, June 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	24	15	0	0	16
Connecticut	0	0	0	0	0	0	0	14
Maine	0	0	0	0	0	0	0	361
Massachusetts	0	0	0	32	33	0	0	34
New Hampshire	0	0	0	0	0	0	0	32
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	36	17	0	0	18
Middle Atlantic	0	0	0	25	25	0	0	2
New Jersey	0	0	0	25	25	0	0	29
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	0	0	0	14	9	0	46	1
Illinois	0	0	0	45	26	0	0	9
Indiana	0	0	0	21	13	0	0	2
Michigan	0	0	0	12	11	0	0	2
Ohio	0	0	0	86	116	0	0	5
Wisconsin	0	0	0	0	18	0	48	2
West North Central	0	0	0	45	3	0	14	1
Iowa	0	0	0	81	3	0	0	2
Kansas	0	0	0	163	9	0	0	2
Minnesota	0	0	0	130	11	0	0	4
Missouri	0	0	0	46	36	0	0	1
Nebraska	0	0	0	128	32	0	0	4
North Dakota	0	0	0	0	8	0	60	2
South Dakota	0	0	0	0	23	0	0	9
South Atlantic	0	0	0	1	2	0	0	0
Delaware	0	0	0	88	88	0	0	36
Florida	0	0	0	0	0	0	0	0
Georgia	0	0	0	8	8	0	0	1
Maryland	0	0	0	77	77	0	0	0
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	115	28	0	0	1
Virginia	0	0	0	8	12	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	0	0	0	24	19	0	0	1
Alabama	0	0	0	40	40	0	0	1
Kentucky	0	0	0	25	21	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	197	197	0	0	1
West South Central	0	0	0	31	10	0	0	1
Arkansas	0	0	0	178	178	0	0	2
Louisiana	0	0	0	177	177	0	0	2
Oklahoma	0	0	0	35	10	0	0	3
Texas	0	0	0	72	38	0	0	3
Mountain	0	28	0	6	6	0	38	1
Arizona	0	0	0	8	8	0	0	0
Colorado	0	0	0	98	6	0	0	1
Idaho	0	0	0	0	47	0	0	7
Montana	0	0	0	0	41	0	0	7
Nevada	0	0	0	9	9	0	0	0
New Mexico	0	0	0	14	14	0	0	2
Utah	0	28	0	0	28	0	58	1
Wyoming	0	0	0	0	14	0	0	3
Pacific Contiguous	0	0	0	10	4	0	0	1
California	0	0	0	10	5	0	0	2
Oregon	0	0	0	89	5	0	0	3
Washington	0	0	0	0	7	0	0	1
Pacific Noncontiguous	0	0	0	30	30	0	0	9
Alaska	0	0	0	0	64	0	0	16
Hawaii	0	0	0	30	23	0	0	3
U.S. Total	0	6	0	2	2	0	9	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 June 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	24	0	62	0	0	23
Connecticut	0	31	0	0	0	0	89
Maine	0	0	0	0	0	0	361
Massachusetts	0	77	0	74	0	0	45
New Hampshire	0	3	0	0	0	0	43
Rhode Island	0	0	0	0	0	0	0
Vermont	0	59	0	0	0	0	35
Middle Atlantic	0	25	0	5	0	0	1
New Jersey	0	0	0	110	0	0	0
New York	0	25	0	5	0	0	1
Pennsylvania	0	0	0	0	0	0	0
East North Central	1	16	0	4	0	0	11
Illinois	0	26	0	14	0	0	68
Indiana	1	2	0	6	0	0	41
Michigan	2	16	0	8	0	0	19
Ohio	8	30	0	7	0	0	46
Wisconsin	0	120	0	6	0	0	15
West North Central	1	13	0	9	0	0	7
Iowa	0	16	0	11	0	0	23
Kansas	0	19	0	26	0	0	0
Minnesota	6	67	0	15	0	0	26
Missouri	0	5	0	15	0	0	17
Nebraska	4	164	0	42	0	0	19
North Dakota	0	17	0	41	0	0	12
South Dakota	0	180	0	45	0	0	9
South Atlantic	0	14	0	1	0	0	6
Delaware	0	0	0	0	0	0	0
Florida	0	9	0	1	0	0	56
Georgia	0	27	0	3	0	0	10
Maryland	0	54	0	0	0	0	0
North Carolina	0	26	0	2	0	0	8
South Carolina	0	53	0	3	0	0	12
Virginia	0	34	0	4	0	0	14
West Virginia	0	0	0	0	0	0	32
East South Central	0	1	0	2	0	0	5
Alabama	0	0	0	5	0	0	7
Kentucky	0	0	0	4	0	0	9
Mississippi	0	5	0	2	0	0	0
Tennessee	0	1	0	4	0	0	8
West South Central	0	6	0	2	0	0	8
Arkansas	0	0	0	6	0	0	12
Louisiana	0	43	0	3	0	0	0
Oklahoma	0	1	0	4	0	0	14
Texas	0	8	0	4	0	0	14
Mountain	1	14	0	1	0	0	4
Arizona	0	7	0	1	0	0	5
Colorado	0	87	0	1	0	0	18
Idaho	0	0	0	41	0	0	7
Montana	0	1,046	0	68	0	0	7
Nevada	0	0	0	1	0	0	0
New Mexico	0	138	0	5	0	0	65
Utah	0	3	0	3	0	0	24
Wyoming	4	1	0	40	0	0	24
Pacific Contiguous	0	65	0	4	0	0	1
California	0	64	0	2	0	0	5
Oregon	0	0	0	25	0	0	3
Washington	0	1,889	0	22	0	0	1
Pacific Noncontiguous	60	2	0	34	0	0	19
Alaska	60	6	0	34	0	0	19
Hawaii	0	3	0	0	0	0	0
U.S. Total	0	3	0	1	0	0	1

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

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

Electric Utilities by Census Division and State, Year-to-Date through June 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	24	15	0	0	16
Connecticut	0	0	0	0	0	0	0	14
Maine	0	0	0	0	0	0	0	361
Massachusetts	0	0	0	32	33	0	0	34
New Hampshire	0	0	0	0	0	0	0	32
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	36	17	0	0	18
Middle Atlantic	0	0	0	25	25	0	0	2
New Jersey	0	0	0	25	25	0	0	29
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	0	0	0	14	9	0	46	1
Illinois	0	0	0	45	26	0	0	9
Indiana	0	0	0	21	13	0	0	2
Michigan	0	0	0	12	11	0	0	2
Ohio	0	0	0	86	116	0	0	5
Wisconsin	0	0	0	0	18	0	48	2
West North Central	0	0	0	45	3	0	14	1
Iowa	0	0	0	81	3	0	0	2
Kansas	0	0	0	163	9	0	0	2
Minnesota	0	0	0	130	11	0	0	4
Missouri	0	0	0	46	36	0	0	1
Nebraska	0	0	0	128	32	0	0	4
North Dakota	0	0	0	0	8	0	60	2
South Dakota	0	0	0	0	23	0	0	9
South Atlantic	0	0	0	1	2	0	0	0
Delaware	0	0	0	88	88	0	0	36
Florida	0	0	0	0	0	0	0	0
Georgia	0	0	0	8	8	0	0	1
Maryland	0	0	0	77	77	0	0	0
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	115	28	0	0	1
Virginia	0	0	0	8	12	0	0	2
West Virginia	0	0	0	0	0	0	0	0
East South Central	0	0	0	24	19	0	0	1
Alabama	0	0	0	40	40	0	0	1
Kentucky	0	0	0	25	21	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	197	197	0	0	1
West South Central	0	0	0	31	10	0	0	1
Arkansas	0	0	0	178	178	0	0	2
Louisiana	0	0	0	177	177	0	0	2
Oklahoma	0	0	0	35	10	0	0	3
Texas	0	0	0	72	38	0	0	3
Mountain	0	28	0	6	6	0	38	1
Arizona	0	0	0	8	8	0	0	0
Colorado	0	0	0	98	6	0	0	1
Idaho	0	0	0	0	47	0	0	7
Montana	0	0	0	0	41	0	0	7
Nevada	0	0	0	9	9	0	0	0
New Mexico	0	0	0	14	14	0	0	2
Utah	0	28	0	0	28	0	58	1
Wyoming	0	0	0	0	14	0	0	3
Pacific Contiguous	0	0	0	10	4	0	0	1
California	0	0	0	10	5	0	0	2
Oregon	0	0	0	89	5	0	0	3
Washington	0	0	0	0	7	0	0	1
Pacific Noncontiguous	0	0	0	30	30	0	0	9
Alaska	0	0	0	0	64	0	0	16
Hawaii	0	0	0	30	23	0	0	3
U.S. Total	0	6	0	2	2	0	9	0

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

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

Independent Power Producers by Census Division and State, June 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	29	0	3	0	0	10
Connecticut	0	55	0	2	0	0	36
Maine	0	1	0	14	0	0	15
Massachusetts	0	105	0	6	0	0	28
New Hampshire	0	1,018	0	0	0	0	20
Rhode Island	0	184	0	10	0	0	0
Vermont	0	0	0	0	0	0	27
Middle Atlantic	4	18	0	1	0	0	11
New Jersey	0	76	0	3	0	0	0
New York	0	38	0	3	0	0	12
Pennsylvania	4	15	0	1	0	0	13
East North Central	3	7	19	2	102	0	33
Illinois	0	3	0	7	0	0	52
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	2	0	0	69
Ohio	5	9	19	2	102	0	0
Wisconsin	0	0	0	1	0	0	60
West North Central	0	216	0	12	0	0	40
Iowa	0	57	0	2,379	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	438	0	32	0	0	46
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	4	21	0	2	0	0	10
Delaware	0	94	0	7	0	0	0
Florida	0	122	0	6	0	0	0
Georgia	0	339	0	7	0	0	207
Maryland	0	7	0	4	0	0	4
North Carolina	0	330	0	7	0	0	60
South Carolina	0	0	0	21	0	0	84
Virginia	0	23	0	2	0	0	57
West Virginia	7	0	0	11	0	0	35
East South Central	0	31	0	0	0	0	253
Alabama	0	36	0	0	0	0	0
Kentucky	0	0	0	0	0	0	253
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	0	26	0	1	0	0	23
Arkansas	0	0	0	0	0	0	62
Louisiana	0	0	0	8	0	0	25
Oklahoma	0	0	0	0	0	0	0
Texas	0	56	0	1	0	0	0
Mountain	10	12	0	3	0	0	20
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	9	0	0	47
Idaho	0	0	0	44	0	0	25
Montana	16	16	0	132	0	0	62
Nevada	0	0	0	0	0	0	64
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	0	24	0	2	0	0	21
California	0	0	0	2	0	0	28
Oregon	0	0	0	6	0	0	47
Washington	0	86	0	59	0	0	35
Pacific Noncontiguous	12	0	0	0	0	0	0
Alaska	101	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	1	4	15	1	15	0	7

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

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

Independent Power Producers by Census Division and State, June 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	7	6	0	1	2
Connecticut	0	0	0	19	10	0	0	1
Maine	0	0	0	64	10	0	0	7
Massachusetts	0	0	0	8	6	0	3	4
New Hampshire	0	0	0	0	17	0	0	2
Rhode Island	0	0	0	28	16	0	0	10
Vermont	0	0	0	26	21	0	0	18
Middle Atlantic	0	0	0	7	4	0	0	1
New Jersey	0	0	0	8	6	0	0	2
New York	0	0	0	11	6	0	0	1
Pennsylvania	0	0	0	28	7	0	0	1
East North Central	0	0	0	8	3	0	30	1
Illinois	0	0	0	24	4	0	0	1
Indiana	0	0	0	17	7	0	0	1
Michigan	0	0	0	40	8	0	45	1
Ohio	0	0	0	9	5	0	0	2
Wisconsin	0	0	0	37	11	0	0	1
West North Central	0	0	0	6	2	0	0	2
Iowa	0	0	0	86	7	0	0	5
Kansas	0	0	0	19	2	0	0	2
Minnesota	0	0	0	7	5	0	0	6
Missouri	0	0	0	26	6	0	0	3
Nebraska	0	0	0	40	5	0	0	5
North Dakota	0	0	0	0	5	0	0	5
South Dakota	0	0	0	163	6	0	0	6
South Atlantic	0	0	0	2	2	0	1	1
Delaware	0	0	0	36	27	0	0	7
District of Columbia	0	0	0	86	86	0	0	86
Florida	0	0	0	5	3	0	1	4
Georgia	0	0	0	3	2	0	0	5
Maryland	0	0	0	10	10	0	0	1
North Carolina	0	0	0	3	2	0	0	3
South Carolina	0	0	0	5	5	0	0	5
Virginia	0	0	0	8	6	0	0	2
West Virginia	0	0	0	0	13	0	0	5
East South Central	0	0	0	5	6	0	0	0
Alabama	0	0	0	10	10	0	0	0
Kentucky	0	0	0	173	44	0	0	2
Mississippi	0	0	0	3	4	0	0	1
Tennessee	0	0	0	12	13	0	0	13
West South Central	0	0	0	1	1	0	0	1
Arkansas	0	0	0	5	8	0	0	1
Louisiana	0	0	0	0	32	0	0	8
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	1	2	0	0	1
Mountain	0	9	0	1	2	0	0	2
Arizona	0	0	0	2	3	0	0	1
Colorado	0	0	0	5	4	0	0	4
Idaho	0	43	0	8	10	0	0	13
Montana	0	0	0	38	11	0	0	10
Nevada	0	9	0	2	4	0	0	3
New Mexico	0	0	0	6	3	0	0	3
Utah	0	27	0	4	5	0	0	4
Wyoming	0	0	0	0	14	0	0	10
Pacific Contiguous	0	4	0	1	2	0	0	1
California	0	4	0	1	2	0	0	1
Oregon	0	31	0	8	6	0	0	5
Washington	0	0	0	57	11	0	0	12
Pacific Noncontiguous	0	30	0	9	14	0	0	6
Alaska	0	0	0	0	86	0	0	78
Hawaii	0	30	0	9	14	0	0	5
U.S. Total	0	5	0	1	1	0	1	0

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	29	0	3	0	0	10
Connecticut	0	55	0	2	0	0	36
Maine	0	1	0	14	0	0	15
Massachusetts	0	105	0	6	0	0	28
New Hampshire	0	1,018	0	0	0	0	20
Rhode Island	0	184	0	10	0	0	0
Vermont	0	0	0	0	0	0	27
Middle Atlantic	4	18	0	1	0	0	11
New Jersey	0	76	0	3	0	0	0
New York	0	38	0	3	0	0	12
Pennsylvania	4	15	0	1	0	0	13
East North Central	3	7	19	2	102	0	33
Illinois	0	3	0	7	0	0	52
Indiana	0	0	0	1	0	0	0
Michigan	0	0	0	2	0	0	69
Ohio	5	9	19	2	102	0	0
Wisconsin	0	0	0	1	0	0	60
West North Central	0	216	0	12	0	0	40
Iowa	0	57	0	2,379	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	438	0	32	0	0	46
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	4	21	0	2	0	0	10
Delaware	0	94	0	7	0	0	0
Florida	0	122	0	6	0	0	0
Georgia	0	339	0	7	0	0	207
Maryland	0	7	0	4	0	0	4
North Carolina	0	330	0	7	0	0	60
South Carolina	0	0	0	21	0	0	84
Virginia	0	23	0	2	0	0	57
West Virginia	7	0	0	11	0	0	35
East South Central	0	31	0	0	0	0	253
Alabama	0	36	0	0	0	0	0
Kentucky	0	0	0	0	0	0	253
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
West South Central	0	26	0	1	0	0	23
Arkansas	0	0	0	0	0	0	62
Louisiana	0	0	0	8	0	0	25
Oklahoma	0	0	0	0	0	0	0
Texas	0	56	0	1	0	0	0
Mountain	10	12	0	3	0	0	20
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	9	0	0	47
Idaho	0	0	0	44	0	0	25
Montana	16	16	0	132	0	0	62
Nevada	0	0	0	0	0	0	64
New Mexico	0	0	0	5	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
Pacific Contiguous	0	24	0	2	0	0	21
California	0	0	0	2	0	0	28
Oregon	0	0	0	6	0	0	47
Washington	0	86	0	59	0	0	35
Pacific Noncontiguous	12	0	0	0	0	0	0
Alaska	101	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	1	4	15	1	15	0	7

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

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

Independent Power Producers by Census Division and State, Year-to-Date through June 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	7	6	0	1	2
Connecticut	0	0	0	19	10	0	0	1
Maine	0	0	0	64	10	0	0	7
Massachusetts	0	0	0	8	6	0	3	4
New Hampshire	0	0	0	0	17	0	0	2
Rhode Island	0	0	0	28	16	0	0	10
Vermont	0	0	0	26	21	0	0	18
Middle Atlantic	0	0	0	7	4	0	0	1
New Jersey	0	0	0	8	6	0	0	2
New York	0	0	0	11	6	0	0	1
Pennsylvania	0	0	0	28	7	0	0	1
East North Central	0	0	0	8	3	0	30	1
Illinois	0	0	0	24	4	0	0	1
Indiana	0	0	0	17	7	0	0	1
Michigan	0	0	0	40	8	0	45	1
Ohio	0	0	0	9	5	0	0	2
Wisconsin	0	0	0	37	11	0	0	1
West North Central	0	0	0	6	2	0	0	2
Iowa	0	0	0	86	7	0	0	5
Kansas	0	0	0	19	2	0	0	2
Minnesota	0	0	0	7	5	0	0	6
Missouri	0	0	0	26	6	0	0	3
Nebraska	0	0	0	40	5	0	0	5
North Dakota	0	0	0	0	5	0	0	5
South Dakota	0	0	0	163	6	0	0	6
South Atlantic	0	0	0	2	2	0	1	1
Delaware	0	0	0	36	27	0	0	7
District of Columbia	0	0	0	86	86	0	0	86
Florida	0	0	0	5	3	0	1	4
Georgia	0	0	0	3	2	0	0	5
Maryland	0	0	0	10	10	0	0	1
North Carolina	0	0	0	3	2	0	0	3
South Carolina	0	0	0	5	5	0	0	5
Virginia	0	0	0	8	6	0	0	2
West Virginia	0	0	0	0	13	0	0	5
East South Central	0	0	0	5	6	0	0	0
Alabama	0	0	0	10	10	0	0	0
Kentucky	0	0	0	173	44	0	0	2
Mississippi	0	0	0	3	4	0	0	1
Tennessee	0	0	0	12	13	0	0	13
West South Central	0	0	0	1	1	0	0	1
Arkansas	0	0	0	5	8	0	0	1
Louisiana	0	0	0	0	32	0	0	8
Oklahoma	0	0	0	0	3	0	0	2
Texas	0	0	0	1	2	0	0	1
Mountain	0	9	0	1	2	0	0	2
Arizona	0	0	0	2	3	0	0	1
Colorado	0	0	0	5	4	0	0	4
Idaho	0	43	0	8	10	0	0	13
Montana	0	0	0	38	11	0	0	10
Nevada	0	9	0	2	4	0	0	3
New Mexico	0	0	0	6	3	0	0	3
Utah	0	27	0	4	5	0	0	4
Wyoming	0	0	0	0	14	0	0	10
Pacific Contiguous	0	4	0	1	2	0	0	1
California	0	4	0	1	2	0	0	1
Oregon	0	31	0	8	6	0	0	5
Washington	0	0	0	57	11	0	0	12
Pacific Noncontiguous	0	30	0	9	14	0	0	6
Alaska	0	0	0	0	86	0	0	78
Hawaii	0	30	0	9	14	0	0	5
U.S. Total	0	5	0	1	1	0	1	0

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

**Table A.4.A. Relative Standard Error for Net Generation by Fuel Type:
Commercial Sector by Census Division and State, June 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	54	0	16	0	0	0
Connecticut	0	1,193	0	25	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	93	0	24	0	0	0
New Hampshire	0	6	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	116	0	18	0	0	0
New Jersey	0	0	0	50	0	0	0
New York	0	179	0	21	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	13	9	0	9	0	0	0
Illinois	13	213	0	31	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	258	0	13	0	0	0
Ohio	0	0	0	4	0	0	0
Wisconsin	0	655	0	36	0	0	0
West North Central	0	28	0	9	0	0	0
Iowa	0	0	0	16	0	0	0
Minnesota	0	32	0	24	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	1,112	0	0	0	0	0
South Atlantic	0	8	0	7	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	46	0	0	0	0	0
Maryland	0	0	0	5	0	0	0
North Carolina	0	1,292	0	69	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	29	0	0	0
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	29	0	0	0
West South Central	0	0	0	16	0	0	0
Arkansas	0	0	0	112	0	0	0
Louisiana	0	0	0	25	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	18	0	0	0
Mountain	0	868	0	12	0	0	0
Arizona	0	868	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	48	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	0	22	0	5	0	0	298
California	0	30	0	5	0	0	298
Oregon	0	0	0	25	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	60	5	0	0	0	0	53
Alaska	60	192	0	0	0	0	53
Hawaii	0	0	0	0	0	0	0
U.S. Total	30	13	0	5	0	0	43

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, June 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	84	17	0	0	14
Connecticut	0	0	0	123	123	0	0	24
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	114	40	0	0	22
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	19	6	0	2	8
New Jersey	0	0	0	20	11	0	0	10
New York	0	0	0	79	9	0	5	13
Pennsylvania	0	0	0	95	6	0	0	3
East North Central	0	0	0	64	21	0	0	8
Illinois	0	0	0	119	163	0	0	26
Indiana	0	0	0	204	38	0	0	3
Michigan	0	0	0	151	8	0	0	11
Ohio	0	0	0	129	52	0	0	5
Wisconsin	0	0	0	114	43	0	0	28
West North Central	0	0	0	0	24	0	35	9
Iowa	0	0	0	0	19	0	0	10
Kansas	0	0	0	0	179	0	0	179
Minnesota	0	0	0	0	61	0	35	21
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	385	0	0	378
South Dakota	0	0	0	0	0	0	0	1,112
South Atlantic	0	0	0	20	8	0	0	4
Delaware	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	88	31	0	0	20
Georgia	0	0	0	141	141	0	0	107
Maryland	0	0	0	67	35	0	0	5
North Carolina	0	0	0	21	21	0	0	24
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	219	5	0	0	2
East South Central	0	0	0	105	105	0	0	29
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	105	105	0	0	29
West South Central	0	0	0	30	17	0	0	14
Arkansas	0	0	0	0	0	0	0	59
Louisiana	0	0	0	0	0	0	0	25
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	162	23	0	0	17
Mountain	0	0	0	24	5	0	0	6
Arizona	0	0	0	62	62	0	0	7
Colorado	0	0	0	60	55	0	0	33
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	28	4	0	0	4
New Mexico	0	0	0	0	329	0	0	48
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	0	19	6	0	0	4
California	0	0	0	19	6	0	0	4
Oregon	0	0	0	0	30	0	0	19
Washington	0	0	0	0	60	0	0	23
Pacific Noncontiguous	0	0	0	0	0	0	0	18
Alaska	0	0	0	0	0	0	0	36
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	0	0	0	10	3	0	2	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.

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

Commercial Sector by Census Division and State, Year-to-Date through June 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	54	0	16	0	0	0
Connecticut	0	1,193	0	25	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	93	0	24	0	0	0
New Hampshire	0	6	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	116	0	18	0	0	0
New Jersey	0	0	0	50	0	0	0
New York	0	179	0	21	0	0	0
Pennsylvania	0	0	0	0	0	0	0
East North Central	13	9	0	9	0	0	0
Illinois	13	213	0	31	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	258	0	13	0	0	0
Ohio	0	0	0	4	0	0	0
Wisconsin	0	655	0	36	0	0	0
West North Central	0	28	0	9	0	0	0
Iowa	0	0	0	16	0	0	0
Minnesota	0	32	0	24	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	1,112	0	0	0	0	0
South Atlantic	0	8	0	7	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	46	0	0	0	0	0
Maryland	0	0	0	5	0	0	0
North Carolina	0	1,292	0	69	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	29	0	0	0
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	29	0	0	0
West South Central	0	0	0	16	0	0	0
Arkansas	0	0	0	112	0	0	0
Louisiana	0	0	0	25	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	18	0	0	0
Mountain	0	868	0	12	0	0	0
Arizona	0	868	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	48	0	0	0
Utah	0	0	0	0	0	0	0
Pacific Contiguous	0	22	0	5	0	0	298
California	0	30	0	5	0	0	298
Oregon	0	0	0	25	0	0	0
Washington	0	0	0	0	0	0	0
Pacific Noncontiguous	60	5	0	0	0	0	53
Alaska	60	192	0	0	0	0	53
Hawaii	0	0	0	0	0	0	0
U.S. Total	30	13	0	5	0	0	43

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 June 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	84	17	0	0	14
Connecticut	0	0	0	123	123	0	0	24
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	114	40	0	0	22
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	19	6	0	2	8
New Jersey	0	0	0	20	11	0	0	10
New York	0	0	0	79	9	0	5	13
Pennsylvania	0	0	0	95	6	0	0	3
East North Central	0	0	0	64	21	0	0	8
Illinois	0	0	0	119	163	0	0	26
Indiana	0	0	0	204	38	0	0	3
Michigan	0	0	0	151	8	0	0	11
Ohio	0	0	0	129	52	0	0	5
Wisconsin	0	0	0	114	43	0	0	28
West North Central	0	0	0	0	24	0	35	9
Iowa	0	0	0	0	19	0	0	10
Kansas	0	0	0	0	179	0	0	179
Minnesota	0	0	0	0	61	0	35	21
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	385	0	0	378
South Dakota	0	0	0	0	0	0	0	1,112
South Atlantic	0	0	0	20	8	0	0	4
Delaware	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	88	31	0	0	20
Georgia	0	0	0	141	141	0	0	107
Maryland	0	0	0	67	35	0	0	5
North Carolina	0	0	0	21	21	0	0	24
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	219	5	0	0	2
East South Central	0	0	0	105	105	0	0	29
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	105	105	0	0	29
West South Central	0	0	0	30	17	0	0	14
Arkansas	0	0	0	0	0	0	0	59
Louisiana	0	0	0	0	0	0	0	25
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	162	23	0	0	17
Mountain	0	0	0	24	5	0	0	6
Arizona	0	0	0	62	62	0	0	7
Colorado	0	0	0	60	55	0	0	33
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	28	4	0	0	4
New Mexico	0	0	0	0	329	0	0	48
Utah	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	0	19	6	0	0	4
California	0	0	0	19	6	0	0	4
Oregon	0	0	0	0	30	0	0	19
Washington	0	0	0	0	60	0	0	23
Pacific Noncontiguous	0	0	0	0	0	0	0	18
Alaska	0	0	0	0	0	0	0	36
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	0	0	0	10	3	0	2	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.

**Table A.5.A. Relative Standard Error for Net Generation by Fuel Type:
Industrial Sector by Census Division and State, June 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	92	54	0	12	0	0	75
Connecticut	0	0	0	15	0	0	0
Maine	92	54	0	27	0	0	75
Massachusetts	0	0	0	16	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	3,201	0	47	0	0	0
Middle Atlantic	0	25	0	10	59	0	62
New Jersey	0	0	0	11	0	0	0
New York	0	10	0	9	0	0	62
Pennsylvania	0	37	0	15	116	0	0
East North Central	12	26	0	8	30	0	41
Illinois	12	0	0	18	0	0	0
Indiana	0	5	0	7	39	0	0
Michigan	213	428	0	30	0	0	158
Ohio	0	0	0	16	0	0	0
Wisconsin	35	0	0	26	0	0	42
West North Central	9	0	0	15	0	0	0
Iowa	4	0	0	21	0	0	0
Kansas	0	0	0	121	0	0	0
Minnesota	77	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	30	0	0	0	0	0	0
North Dakota	123	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	20	26	37	5	0	0	32
Delaware	0	0	0	0	0	0	0
Florida	31	47	0	13	0	0	0
Georgia	42	36	37	24	0	0	92
Maryland	0	0	0	0	0	0	0
North Carolina	0	80	0	36	0	0	466
South Carolina	0	0	0	14	0	0	0
Virginia	0	51	0	7	0	0	0
West Virginia	0	0	0	0	0	0	33
East South Central	0	41	0	9	109	0	0
Alabama	0	107	0	17	235	0	0
Kentucky	0	0	0	26	0	0	0
Mississippi	0	0	0	23	0	0	0
Tennessee	0	0	0	5	0	0	0
West South Central	0	17	6	1	8	0	0
Arkansas	0	0	0	34	0	0	0
Louisiana	0	0	0	2	10	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	360	6	2	9	0	0
Mountain	50	0	0	8	7	0	0
Colorado	0	0	0	0	0	0	0
Idaho	246	0	0	53	0	0	0
Montana	459	0	0	727	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	51	0	0	15	8	0	0
Pacific Contiguous	0	32	0	2	2	0	0
California	0	0	0	1	3	0	0
Oregon	0	0	0	74	0	0	0
Washington	0	157	0	15	0	0	0
Pacific Noncontiguous	0	2	0	0	0	0	113
Alaska	0	12	0	0	0	0	0
Hawaii	0	0	0	0	0	0	113
U.S. Total	7	8	15	1	8	0	23

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, June 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	108	9	0	0	8
Connecticut	0	0	0	645	645	0	0	15
Maine	0	0	0	0	9	0	0	10
Massachusetts	0	0	0	109	130	0	0	17
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	47
Middle Atlantic	0	0	0	60	12	0	0	9
New Jersey	0	0	0	92	92	0	0	7
New York	0	0	0	126	29	0	0	9
Pennsylvania	0	0	0	81	13	0	0	15
East North Central	0	0	0	0	8	0	2	6
Illinois	0	0	0	0	0	0	0	8
Indiana	0	0	0	0	27	0	0	13
Michigan	0	0	0	0	11	0	0	13
Ohio	0	0	0	0	18	0	0	10
Wisconsin	0	0	0	0	13	0	46	14
West North Central	0	0	0	0	0	0	0	6
Iowa	0	0	0	0	0	0	0	4
Kansas	0	0	0	0	0	0	0	97
Minnesota	0	0	0	0	0	0	0	12
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	30
North Dakota	0	0	0	0	0	0	0	74
South Dakota	0	0	0	0	0	0	0	0
South Atlantic	0	0	0	119	3	0	0	3
Delaware	0	0	0	0	62	0	0	0
Florida	0	0	0	131	8	0	0	5
Georgia	0	0	0	0	5	0	0	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	6	0	0	6
South Carolina	0	0	0	176	4	0	0	4
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	15
East South Central	0	0	0	89	4	0	56	4
Alabama	0	0	0	0	5	0	0	6
Kentucky	0	0	0	0	22	0	0	17
Mississippi	0	0	0	0	5	0	0	7
Tennessee	0	0	0	89	10	0	56	4
West South Central	0	0	0	0	5	0	2	1
Arkansas	0	0	0	0	10	0	0	10
Louisiana	0	0	0	0	7	0	0	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	13	0	6	2
Mountain	0	0	0	112	1	0	0	6
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	176	4	0	0	16
Montana	0	0	0	0	0	0	0	93
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	9
Pacific Contiguous	0	0	0	45	8	0	2	2
California	0	0	0	45	13	0	2	1
Oregon	0	0	0	0	15	0	0	18
Washington	0	0	0	0	11	0	0	8
Pacific Noncontiguous	0	0	0	0	142	0	0	13
Alaska	0	0	0	0	142	0	0	5
Hawaii	0	0	0	0	0	0	0	20
U.S. Total	0	0	0	29	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 June 2020

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	92	54	0	12	0	0	75
Connecticut	0	0	0	15	0	0	0
Maine	92	54	0	27	0	0	75
Massachusetts	0	0	0	16	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	3,201	0	47	0	0	0
Middle Atlantic	0	25	0	10	59	0	62
New Jersey	0	0	0	11	0	0	0
New York	0	10	0	9	0	0	62
Pennsylvania	0	37	0	15	116	0	0
East North Central	12	26	0	8	30	0	41
Illinois	12	0	0	18	0	0	0
Indiana	0	5	0	7	39	0	0
Michigan	213	428	0	30	0	0	158
Ohio	0	0	0	16	0	0	0
Wisconsin	35	0	0	26	0	0	42
West North Central	9	0	0	15	0	0	0
Iowa	4	0	0	21	0	0	0
Kansas	0	0	0	121	0	0	0
Minnesota	77	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	30	0	0	0	0	0	0
North Dakota	123	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
South Atlantic	20	26	37	5	0	0	32
Delaware	0	0	0	0	0	0	0
Florida	31	47	0	13	0	0	0
Georgia	42	36	37	24	0	0	92
Maryland	0	0	0	0	0	0	0
North Carolina	0	80	0	36	0	0	466
South Carolina	0	0	0	14	0	0	0
Virginia	0	51	0	7	0	0	0
West Virginia	0	0	0	0	0	0	33
East South Central	0	41	0	9	109	0	0
Alabama	0	107	0	17	235	0	0
Kentucky	0	0	0	26	0	0	0
Mississippi	0	0	0	23	0	0	0
Tennessee	0	0	0	5	0	0	0
West South Central	0	17	6	1	8	0	0
Arkansas	0	0	0	34	0	0	0
Louisiana	0	0	0	2	10	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	360	6	2	9	0	0
Mountain	50	0	0	8	7	0	0
Colorado	0	0	0	0	0	0	0
Idaho	246	0	0	53	0	0	0
Montana	459	0	0	727	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	51	0	0	15	8	0	0
Pacific Contiguous	0	32	0	2	2	0	0
California	0	0	0	1	3	0	0
Oregon	0	0	0	74	0	0	0
Washington	0	157	0	15	0	0	0
Pacific Noncontiguous	0	2	0	0	0	0	113
Alaska	0	12	0	0	0	0	0
Hawaii	0	0	0	0	0	0	113
U.S. Total	7	8	15	1	8	0	23

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 June 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	108	9	0	0	8
Connecticut	0	0	0	645	645	0	0	15
Maine	0	0	0	0	9	0	0	10
Massachusetts	0	0	0	109	130	0	0	17
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	47
Middle Atlantic	0	0	0	60	12	0	0	9
New Jersey	0	0	0	92	92	0	0	7
New York	0	0	0	126	29	0	0	9
Pennsylvania	0	0	0	81	13	0	0	15
East North Central	0	0	0	0	8	0	2	6
Illinois	0	0	0	0	0	0	0	8
Indiana	0	0	0	0	27	0	0	13
Michigan	0	0	0	0	11	0	0	13
Ohio	0	0	0	0	18	0	0	10
Wisconsin	0	0	0	0	13	0	46	14
West North Central	0	0	0	0	0	0	0	6
Iowa	0	0	0	0	0	0	0	4
Kansas	0	0	0	0	0	0	0	97
Minnesota	0	0	0	0	0	0	0	12
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	30
North Dakota	0	0	0	0	0	0	0	74
South Dakota	0	0	0	0	0	0	0	0
South Atlantic	0	0	0	119	3	0	0	3
Delaware	0	0	0	0	62	0	0	0
Florida	0	0	0	131	8	0	0	5
Georgia	0	0	0	0	5	0	0	6
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	6	0	0	6
South Carolina	0	0	0	176	4	0	0	4
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	15
East South Central	0	0	0	89	4	0	56	4
Alabama	0	0	0	0	5	0	0	6
Kentucky	0	0	0	0	22	0	0	17
Mississippi	0	0	0	0	5	0	0	7
Tennessee	0	0	0	89	10	0	56	4
West South Central	0	0	0	0	5	0	2	1
Arkansas	0	0	0	0	10	0	0	10
Louisiana	0	0	0	0	7	0	0	2
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	13	0	6	2
Mountain	0	0	0	112	1	0	0	6
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	176	4	0	0	16
Montana	0	0	0	0	0	0	0	93
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	9
Pacific Contiguous	0	0	0	45	8	0	2	2
California	0	0	0	45	13	0	2	1
Oregon	0	0	0	0	15	0	0	18
Washington	0	0	0	0	11	0	0	8
Pacific Noncontiguous	0	0	0	0	142	0	0	13
Alaska	0	0	0	0	142	0	0	5
Hawaii	0	0	0	0	0	0	0	20
U.S. Total	0	0	0	29	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, June 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	6	0	1
New Hampshire	1	1	2	0	1
Rhode Island	0	0	0	0	0
Vermont	3	7	8	0	3
Middle Atlantic	0	0	0	0	0
New Jersey	0	0	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	0	1	1	0	0
Illinois	0	1	1	0	0
Indiana	1	3	2	0	1
Michigan	1	2	4	0	1
Ohio	0	1	1	0	0
Wisconsin	1	4	6	0	2
West North Central	1	2	3	0	1
Iowa	2	8	5	0	3
Kansas	2	1	11	0	3
Minnesota	2	5	9	0	3
Missouri	1	2	7	0	1
Nebraska	2	7	8	0	4
North Dakota	3	5	9	0	5
South Dakota	3	10	14	0	5
South Atlantic	1	0	2	0	0
Delaware	1	2	6	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	8	0	1
Georgia	2	1	6	0	1
Maryland	0	1	2	0	0
North Carolina	1	1	5	0	1
South Carolina	2	1	5	0	2
Virginia	1	0	7	0	1
West Virginia	0	1	0	0	0
East South Central	1	2	2	0	1
Alabama	2	1	4	0	2
Kentucky	1	4	3	0	2
Mississippi	3	2	7	0	3
Tennessee	1	3	5	0	2
West South Central	1	1	2	0	1
Arkansas	2	2	6	0	2
Louisiana	2	1	2	0	1
Oklahoma	2	1	6	0	2
Texas	2	1	2	0	1
Mountain	1	2	2	0	1
Arizona	1	2	5	0	1
Colorado	2	5	8	0	3
Idaho	2	5	3	0	2
Montana	3	8	5	0	3
Nevada	1	2	1	0	1
New Mexico	3	8	9	0	4
Utah	2	6	3	0	2
Wyoming	4	9	5	0	4
Pacific Contiguous	0	1	3	0	1
California	0	1	2	0	1
Oregon	2	5	9	0	3
Washington	2	5	8	0	3
Pacific Noncontiguous	1	6	5	0	3
Alaska	4	12	18	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 June 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	1	2	0	0
Connecticut	0	1	3	0	1
Maine	0	1	1	0	1
Massachusetts	0	1	5	0	1
New Hampshire	1	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	2	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	0	1	1	0	0
Indiana	1	3	2	0	1
Michigan	0	2	4	0	1
Ohio	0	1	1	0	0
Wisconsin	1	3	6	0	2
West North Central	0	2	3	0	1
Iowa	1	6	5	0	3
Kansas	1	1	7	0	2
Minnesota	1	4	7	0	3
Missouri	1	2	5	0	1
Nebraska	1	7	9	0	4
North Dakota	1	4	7	0	4
South Dakota	1	8	12	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	0
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	4	1	1
West Virginia	0	1	0	0	0
East South Central	0	1	2	0	1
Alabama	1	1	3	0	1
Kentucky	1	3	2	0	1
Mississippi	1	1	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	1
Texas	1	1	2	0	1
Mountain	0	1	2	0	1
Arizona	0	2	3	0	1
Colorado	1	4	6	0	2
Idaho	1	4	4	0	2
Montana	1	6	6	0	3
Nevada	0	2	1	0	1
New Mexico	1	6	6	0	3
Utah	1	4	3	0	2
Wyoming	1	7	4	0	3
Pacific Contiguous	0	1	3	0	1
California	0	1	2	0	1
Oregon	1	4	9	0	3
Washington	1	4	7	0	2
Pacific Noncontiguous	1	4	4	0	2
Alaska	1	9	15	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, June 2020

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

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

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through June 2020

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	0	2	0	0
Connecticut	0	1	3	0	1
Maine	0	1	2	0	1
Massachusetts	0	1	5	0	1
New Hampshire	0	0	0	0	0
Rhode Island	0	0	0	0	0
Vermont	2	6	6	0	3
Middle Atlantic	0	0	0	0	0
New Jersey	0	0	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
East North Central	0	1	1	0	0
Illinois	0	1	1	0	0
Indiana	1	3	2	0	1
Michigan	0	2	5	0	1
Ohio	0	1	1	0	0
Wisconsin	1	3	8	0	2
West North Central	1	2	4	0	1
Iowa	1	7	7	0	3
Kansas	1	2	8	0	2
Minnesota	1	4	9	0	3
Missouri	1	3	5	0	1
Nebraska	2	7	12	0	4
North Dakota	1	4	9	0	4
South Dakota	2	9	16	0	4
South Atlantic	0	0	2	0	0
Delaware	1	2	6	0	1
District of Columbia	0	0	0	0	0
Florida	0	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	1	4	3	0	2
Mississippi	1	3	6	0	2
Tennessee	1	3	5	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	6	0	2
Texas	1	1	2	0	1
Mountain	1	2	3	0	1
Arizona	1	2	5	0	1
Colorado	2	5	8	0	3
Idaho	1	4	5	0	2
Montana	2	7	7	0	3
Nevada	1	2	2	0	1
New Mexico	2	7	11	0	4
Utah	2	5	4	0	2
Wyoming	2	7	6	0	3
Pacific Contiguous	0	1	3	0	1
California	0	1	2	0	1
Oregon	1	4	11	0	3
Washington	1	4	9	0	2
Pacific Noncontiguous	1	4	4	0	2
Alaska	2	9	17	0	5
Hawaii	0	0	0	0	0
U.S. Total	0	0	1	0	0

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Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 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	01/09/2020 11:07 PM	01/09/2020 11:18 PM	0 Hours, 11 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	Unknown	Unknown
2020	1	01/09/2020 11:07 PM	01/09/2020 11:19 PM	0 Hours, 12 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	1	01/11/2020 2:25 AM	01/11/2020 7:56 AM	5 Hours, 31 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	01/11/2020 3:30 AM	01/11/2020 5:30 PM	14 Hours, 0 Minutes	Entergy Corp	SPP RE	Arkansas: Texas;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	68138
2020	1	01/11/2020 12:50 PM	01/12/2020 1:33 PM	24 Hours, 43 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	01/11/2020 1:20 PM	.	. 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	Unknown
2020	1	01/11/2020 11:02 PM	01/12/2020 2:01 AM	2 Hours, 59 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	66475
2020	1	01/17/2020 5:28 AM	01/17/2020 10:13 AM	4 Hours, 45 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	01/24/2020 4:34 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
2020	1	01/30/2020 3:01 AM	01/30/2020 4:36 AM	1 Hours, 35 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	2	02/06/2020 1:30 PM	02/07/2020 8:08 PM	30 Hours, 38 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	Unknown	89500
2020	2	02/06/2020 2:29 PM	02/07/2020 12:44 PM	22 Hours, 15 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	Unknown	284256
2020	2	02/07/2020 8:48 AM	.	. 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	Unknown	87000
2020	2	02/07/2020 11:00 AM	.	. 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	Unknown	52000
2020	2	02/07/2020 2:42 PM	02/10/2020 9:25 AM	66 Hours, 43 Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	7500
2020	2	02/07/2020 4:25 PM	02/08/2020 12:00 PM	19 Hours, 35 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: New Hampshire: Rhode Island: Vermont;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	123359
2020	2	02/09/2020 9:30 AM	02/09/2020 9:40 PM	12 Hours, 10 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	02/11/2020 7:13 AM	02/11/2020 4:00 PM	8 Hours, 47 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	Unknown	0
2020	2	02/17/2020 4:00 AM	.	. 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	03/01/2020 8:00 AM		. Hours, . Minutes	Somerset Operating Company	NPCC	Western NY	Fuel supply emergencies that could impact electric power system adequacy or reliability.- Fuel Supply Deficiency	675	Unknown
2020	3	03/01/2020 11:27 AM	03/01/2020 9:47 PM	10 Hours, 20 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	03/12/2020 1:03 AM	03/12/2020 3:00 AM	1 Hours, 57 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	03/16/2020 12:01 PM	03/16/2020 1:10 PM	1 Hours, 9 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	03/18/2020 7:09 AM		. Hours, . Minutes	Pacificcorp	WECC	Utah;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Natural Disaster	237	73000
2020	3	03/24/2020 2:55 AM	03/24/2020 6:50 AM	3 Hours, 55 Minutes	ISO New England	NPCC	Connecticut: Massachusetts; Maine: New Hampshire; Rhode Island: Vermont;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	51026
2020	3	03/26/2020 9:29 PM	03/26/2020 9:47 PM	0 Hours, 18 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	03/29/2020 8:27 PM	03/29/2020 11:04 PM	2 Hours, 37 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	3	03/31/2020 11:45 AM	03/31/2020 8:00 PM	8 Hours, 15 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	4	04/02/2020 1:37 PM	04/02/2020 2:43 PM	1 Hours, 6 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	Unknown
2020	4	04/05/2020 3:46 PM	04/05/2020 5:35 PM	1 Hours, 49 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	04/07/2020 11:39 PM	04/07/2020 11:46 PM	0 Hours, 7 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	04/08/2020 1:21 AM	04/08/2020 3:56 AM	2 Hours, 35 Minutes	Ohio Edison Co	WECC	Ohio;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	82509
2020	4	04/08/2020 9:57 PM	04/09/2020 8:59 AM	11 Hours, 2 Minutes	Duke Energy Midwest	RF	Ohio: Kentucky;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	78314
2020	4	04/08/2020 10:03 PM	04/09/2020 7:36 AM	9 Hours, 33 Minutes	Duke Energy Midwest	RF	Indiana;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	93000
2020	4	04/09/2020 7:25 PM	04/10/2020 3:30 AM	8 Hours, 5 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	95000
2020	4	04/09/2020 7:40 PM	04/11/2020 10:00 PM	50 Hours, 20 Minutes	ISO New England	NPCC	Maine;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	340000
2020	4	04/11/2020 11:24 AM	04/11/2020 11:42 AM	0 Hours, 18 Minutes	Pacificcorp	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	04/12/2020 5:00 PM	04/14/2020 1:25 AM	32 Hours, 25 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	04/12/2020 6:13 PM	04/13/2020 3:23 PM	21 Hours, 10 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	Unknown	63289

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	04/12/2020 8:30 PM	04/14/2020 9:00 AM	36 Hours, 30 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	Unknown	51000
2020	4	04/12/2020 8:45 PM		. Hours, . Minutes	Entergy Corp	SPP RE	Arkansas	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	95318
2020	4	04/12/2020 9:28 PM	04/15/2020 12:00 PM	62 Hours, 32 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	Unknown	104000
2020	4	04/13/2020 12:45 AM	04/13/2020 3:00 AM	2 Hours, 15 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	Unknown	120000
2020	4	04/13/2020 3:30 AM	04/14/2020 6:18 PM	38 Hours, 48 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	216400
2020	4	04/13/2020 7:31 AM	04/13/2020 2:00 PM	6 Hours, 29 Minutes	Duke Energy Progress	SERC	North Carolina: South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	Unknown
2020	4	04/13/2020 8:08 AM		. 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	Unknown	72233
2020	4	04/13/2020 10:25 AM	04/13/2020 6:55 PM	8 Hours, 30 Minutes	Dominion Energy VA	SERC	North Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	95000
2020	4	04/13/2020 1:05 PM	04/14/2020 4:00 PM	26 Hours, 55 Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: New Hampshire: Rhode Island: Vermont	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	68476
2020	4	04/20/2020 12:59 AM	04/20/2020 8:40 AM	7 Hours, 41 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
2020	4	04/23/2020 4:30 AM	04/23/2020 7:00 AM	2 Hours, 30 Minutes	Entergy Corp	SERC	Mississippi: Arkansas: Louisiana	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	55184
2020	4	04/23/2020 8:00 AM	04/23/2020 11:40 PM	15 Hours, 40 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	04/24/2020 9:00 PM	04/24/2020 9:33 PM	0 Hours, 33 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	04/26/2020 1:38 AM		. Hours, . Minutes	Florida Power & Light	FRCC	Florida	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	49999
2020	4	04/28/2020 8:01 PM	04/28/2020 11:21 PM	3 Hours, 20 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	04/29/2020 5:55 AM	04/29/2020 7:00 PM	13 Hours, 5 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	Unknown	146660
2020	4	04/29/2020 6:00 AM	04/29/2020 12:31 PM	6 Hours, 31 Minutes	Entergy Corp	SERC	Louisiana	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	77933
2020	4	04/30/2020 3:00 PM		. 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	Unknown	78007
2020	5	05/04/2020 11:59 AM	05/07/2020 8:00 PM	80 Hours, 1 Minutes	Tennessee Valley Authority	SERC	Tennessee: Davidson County	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	500	130000
2020	5	05/13/2020 5:12 AM	05/13/2020 2:07 PM	8 Hours, 55 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	5	05/15/2020 5:55 PM	05/17/2020 6:00 PM	48 Hours, 5 Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York: Saratoga County	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	52
2020	5	05/22/2020 4:35 PM	05/23/2020 3:29 PM	22 Hours, 54 Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	108190
2020	5	05/24/2020 4:45 PM		. Hours, . Minutes	Oklahoma Gas & Electric Co	SPP RE	Central Oklahoma	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	54000
2020	5	05/25/2020 10:58 AM	05/25/2020 1:00 PM	2 Hours, 2 Minutes	LCRA Transmission Services Corporation	TRE	Texas: Kerr 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	3745
2020	5	05/27/2020 5:15 PM	05/29/2020 6:30 AM	37 Hours, 15 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	Unknown	382000

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	5	05/27/2020 5:20 PM		. Hours, . Minutes	CenterPoint Energy	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	273269
2020	5	05/29/2020 5:01 PM	05/29/2020 6:57 PM	1 Hours, 56 Minutes	FirstEnergy Corp	RF	Pennsylvania: Warren 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
2020	6	06/03/2020 12:30 PM	06/03/2020 6:00 PM	5 Hours, 30 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	Unknown	708000
2020	6	06/03/2020 1:00 PM	06/06/2020 4:30 PM	75 Hours, 30 Minutes	Public Service Electric & Gas	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	80	87000
2020	6	06/03/2020 1:36 PM	06/03/2020 4:30 PM	2 Hours, 54 Minutes	Jersey Central Power & Lt Co	RF	New Jersey:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	78079
2020	6	06/09/2020 11:21 AM	06/09/2020 12:01 PM	0 Hours, 40 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	6	06/10/2020 12:22 PM	06/10/2020 5:00 PM	4 Hours, 38 Minutes	Consumers Energy Co	RF	Michigan: Gratiot County, Lake County, Missaukee County, Benzie County, Leelanau County, Manistee County, Wexford County, Montcalm County, Kent County, Ottawa County, Van Buren County, St. Joseph County, Arenac County, Saginaw County, Calhoun County, Branch County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	270000
2020	6	06/10/2020 5:24 PM	06/11/2020 6:00 PM	24 Hours, 36 Minutes	American Electric Power - (RFC Reliability Region)	RF	Ohio: Indiana: Kentucky: West Virginia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	85822
2020	6	06/10/2020 7:30 PM		. Hours, . Minutes	Detroit Edison Co	RF	Michigan: Oakland County, Macomb County, Wayne County, Sanilac County, Tuscola County, Huron County, Lapeer County, Livingston County, Monroe County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	Unknown	237000
2020	6	06/27/2020 4:00 PM	06/28/2020 2:27 AM	10 Hours, 27 Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	33480	78109
2020	6	06/29/2020 2:32 PM	06/29/2020 4:35 PM	2 Hours, 3 Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas: Garland 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

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, UMER, 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 EI 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 Energy Production, Conversion & Delivery (EPCD), Energy Information Administration (EIA), U.S. Department of Energy. Quality statistics begin with the collection of the correct data. To assure this, ERUS performs routine reviews of the data collected and the forms on which it is collected. Additionally, to assure that the data are collected from the correct parties, ERUS routinely reviews the frames for each data collection.

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

Reliability of data

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

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

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

Relative Standard Error: The relative standard error (RSE) statistic, usually given as a percentage, describes the magnitude of sampling error that might reasonably be incurred. The RSE is the square

root of the estimated variance, divided by the variable of interest. The variable of interest may be the ratio of two variables, or a single variable.

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

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

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

Relative Standard Error With Respect to a Superpopulation: The RSESP statistic is similar to the RSE (described above). Like the RSE, it is a statistic designed to estimate the variability of data and is usually given as a percentage. However, where the RSE is only designed to estimate the magnitude of sampling error, the RSESP more fully reflects the impact of variability from sampling and non-sampling errors. This is a more complete measure than RSE in that it can measure statistical variability in a complete census in addition to a sample ^{21,24}. In addition to being a measure of data variability, the RSESP can also be useful in comparing different models that are applied to the same set of data²². This capability is used to test different regression models for imputation and prediction. This testing may include considerations such as comparing different regressors, the comparative reliability of different monthly samples, or the use of different geographical strata or groupings for a given model. For testing purposes, ERUS typically uses recent historical data that have been finalized. Typically, time-series graphics showing two or more models or samples are generated showing the RSESP values over time. In selecting models, consideration is given to total survey error as well as any apparent differences in robustness.

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

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

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

Data revision procedure

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

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

Data sources for Electric Power Monthly

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

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

- Form EIA 861, “Annual Electric Power Industry Report.”

For access to these forms and their instructions, please see:

<http://www.eia.gov/cneaf/electricity/page/forms.html>.

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

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

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

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

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

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

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

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

P Indicates a preliminary value.

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

Form EIA-826

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

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

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

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

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

Data from the Form EIA-826 are used to determine estimates by sector at the State, Census division, and national level. State level sales and revenues estimates are first calculated. Then the ratio of revenue divided by sales is calculated to estimate the price of electricity to ultimate consumers at the State level. The estimates are accumulated separately to produce the Census division and U.S. level estimates¹.

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

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

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

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

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

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

Form EIA-860

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

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

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

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

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

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

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

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

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

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

Energy Source Grouping	Energy Source Code	Energy Source Description
Coal	ANT	Anthracite Coal
	BIT	Bituminous Coal
	LIG	Lignite Coal
	SUB	Subbituminous Coal
	SGC	Coal-Derived Synthesis Gas
	WC	Waste/Other Coal (including anthracite culm, bituminous gob, fine coal, lignite waste, waste coal)
Petroleum Products	DFO	Distillate Fuel Oil (including diesel, No. 1, No. 2, and No. 4 fuel oils)
	JF	Jet Fuel
	KER	Kerosene
	PC	Petroleum Coke
	PG	Gaseous Propane
	RFO	Residual Fuel Oil (including No. 5, and No. 6 fuel oils, and bunker C fuel oil)
	SG	Synthesis Gas from Petroleum Coke
	WO	Waste/Other Oil (including crude oil, liquid butane, liquid propane, naphtha, oil waste, re-refined motor oil, sludge oil, tar oil, or other petroleum-based liquid wastes)
	BFG	Blast Furnace Gas
	NG	Natural Gas
Natural Gas and Other Gases	OG	Other Gas
	NUC	Nuclear (including Uranium, Plutonium, and Thorium)
Nuclear		
Hydroelectric Conventional	WAT	Water at a Conventional Hydroelectric Turbine, and water used in Wave Buoy Hydrokinetic Technology, Current Hydrokinetic Technology, and Tidal Hydrokinetic Technology
	(Prime Mover = HY)	
Hydroelectric Pumped Storage	WAT	Pumping Energy for Reversible (Pumped Storage) Hydroelectric
	(Prime Mover = PS)	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
	SUN	Solar (including solar thermal)
Other Renewable Energy Sources	WND	Wind
	GEO	Geothermal
	PUR	Purchased Steam
Other Energy Sources	WH	Waste heat not directly attributed to a fuel source
	TDF	Tire-Derived Fuels
	MWH	Electricity used for energy storage

OTH

Other

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

Form EIA-860M

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

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

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

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

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

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

Form EIA-861

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

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

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

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

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

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

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

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

Form EIA-923

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

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

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

Instrument and design history:

Receipts and cost and quality of fossil fuels

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

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

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

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

Generation, consumption, and stocks

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

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

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

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

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

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

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

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

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

Net Generation = (Factor) x Gross Generation
<u>Prime Movers:</u>
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
<u>Environmental Equipment:</u>
Flue Gas Desulfurization - 0.97
Flue Gas Particulate 0.99
All Others - 0.97

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

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

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

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

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

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

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

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

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

Methodology to estimate biogenic and non-biogenic municipal solid waste²: Municipal solid waste (MSW) consumption for generation of electric power is split into its biogenic and non-biogenic components beginning with 2001 data by the following methodology (see Table 1):

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 U.S. Environmental Protection Agency (USEPA). For data years 2001 through 2009, the MSW composition was based on the USEPA annual publication, *Municipal Solid Waste in the United States: Facts and Figures*. The compositions developed for the 2009 data year were carried forward for the 2010 through 2018 data years. The most updated composition and categorization of MSW (for the 2019 data year) were also derived from a USEPA publication: *Advancing Sustainable Materials Management: Facts and Figures Report: 2015 Data Tables*. The updated composition values were applied in the October EPM 2019 on the preliminary 2019 values and will be applied going forward in future data years until EIA revises the MSW composition ratios again. The Btu contents of the components of MSW were obtained from various sources.

The numbers in Tables 1 and 2 illustrate two interrelated trends in the composition of the MSW stream. First, the heat content (per unit weight) of the waste stream has been steadily increasing

over time due to higher concentrations of non-biogenic materials. Second, the shares of energy contributed to the waste stream by biogenic and non-biogenic components have been changing over time with the percentage of biogenic materials falling and the share of non-biogenic materials rising.

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 was attributed 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	...	2018	2019
Biogenic	57	56	55	55	56	57	55	54	51	51	51	45
Non-biogenic	43	44	45	45	44	43	46	46	49	49	49	55

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	...	2018	2019
Biogenic	77	77	76	76	75	67	65	65	64	64	64	61
Non-biogenic	23	23	24	24	25	34	35	35	36	36	36	39

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 kilowatt-hour.

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" (45 Federal 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:

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

$x_{i_{2013}}$ 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 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, U.S. census region and U.S. total are reported in the EPM.

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

Appendix 1- MSAs

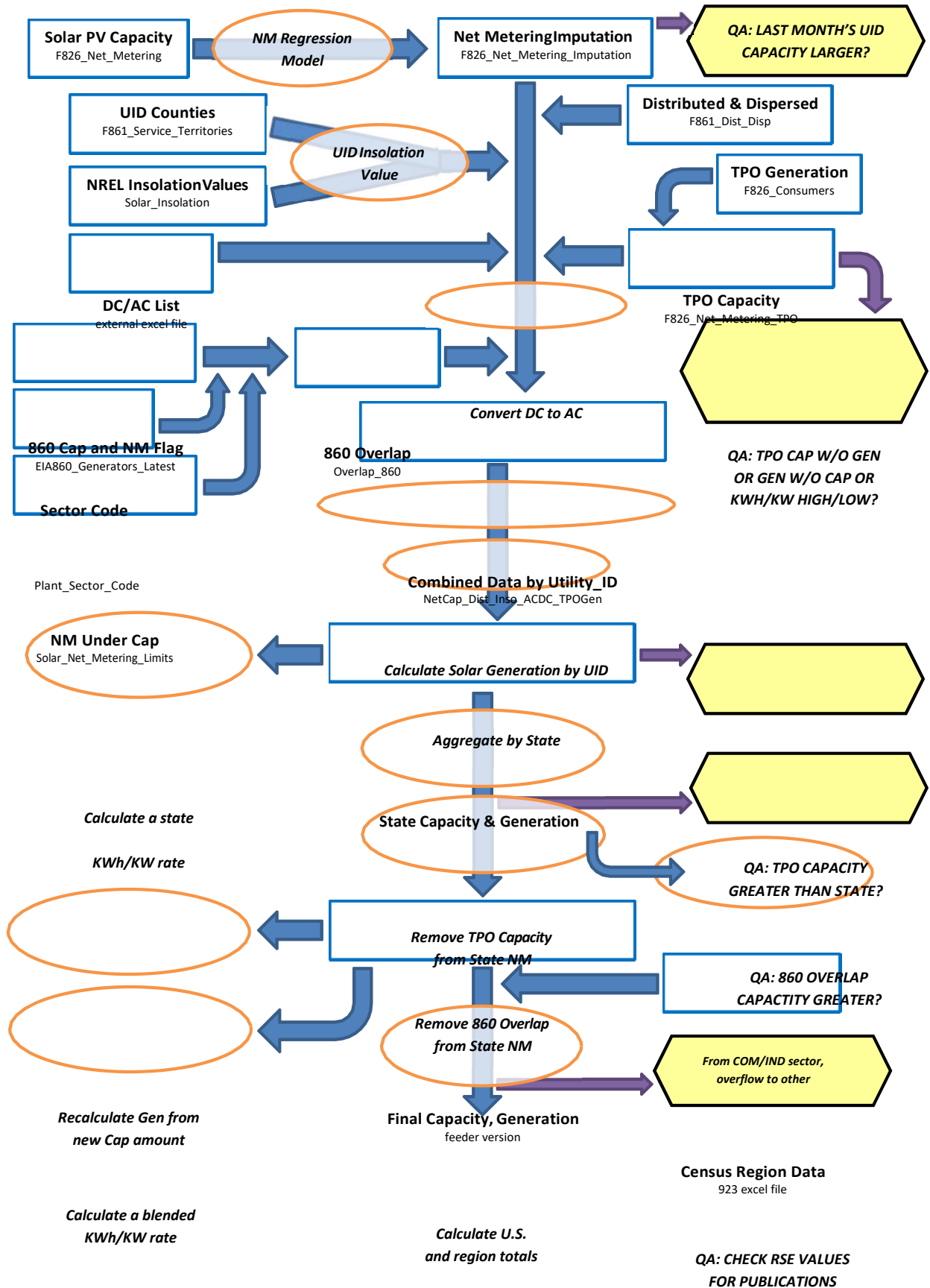
TMY3 (1991-2005) Weather Stations by MSA

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

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

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

Appendix 2 – Flow diagram of data sources and analysis



¹ The basic technique employed is described in the paper “Model-Based Sampling and Inference,” on the EIA website. Additional references can be found on the InterStat website (<http://interstat.statjournals.net/>). See the following sources: Knaub, J.R., Jr. (1999a), “Using Prediction-Oriented Software for Survey Estimation,” InterStat, October 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, June 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	21.65	6.11	--	1.03
Connecticut	--	5.80	--	1.03
Maine	21.65	6.25	--	1.02
Massachusetts	--	5.81	--	1.03
New Hampshire	--	5.79	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	20.13	5.87	--	1.04
New Jersey	26.07	5.80	--	1.03
New York	--	6.39	--	1.03
Pennsylvania	19.52	5.88	--	1.04
East North Central	20.68	5.79	26.98	1.05
Illinois	17.76	5.79	--	1.01
Indiana	22.51	5.77	--	1.06
Michigan	19.28	5.86	26.94	1.05
Ohio	25.13	5.80	--	1.06
Wisconsin	18.31	5.88	27.30	1.03
West North Central	16.56	5.77	--	1.05
Iowa	17.70	5.73	--	1.08
Kansas	17.06	5.79	--	1.01
Minnesota	17.73	5.86	--	1.08
Missouri	17.71	5.79	--	1.02
Nebraska	17.14	5.75	--	1.05
North Dakota	13.04	5.74	--	1.00
South Dakota	16.57	--	--	--
South Atlantic	24.43	5.86	28.34	1.03
Delaware	--	--	--	1.03
District of Columbia	--	--	--	--
Florida	23.60	5.95	28.34	1.02
Georgia	19.18	5.85	--	1.03
Maryland	23.84	5.77	--	1.04
North Carolina	25.33	5.80	--	1.03
South Carolina	24.95	5.80	--	1.03
Virginia	24.96	6.10	--	1.05
West Virginia	25.24	5.81	--	1.05
East South Central	20.53	5.79	--	1.03
Alabama	18.61	5.50	--	1.03
Kentucky	22.75	5.83	--	1.04
Mississippi	12.29	5.83	--	1.03
Tennessee	23.54	5.77	--	1.00
West South Central	16.03	5.85	28.71	1.02
Arkansas	17.74	5.80	--	1.02
Louisiana	16.76	--	28.71	1.03
Oklahoma	17.14	5.80	--	1.02
Texas	15.59	5.87	--	1.02
Mountain	18.93	5.76	--	1.04
Arizona	18.11	5.80	--	1.03
Colorado	18.90	--	--	1.09
Idaho	--	--	--	1.00
Montana	16.84	5.92	--	1.03
Nevada	20.69	5.82	--	1.03
New Mexico	18.56	5.66	--	1.02
Utah	21.81	5.76	--	1.04
Wyoming	17.67	5.80	--	1.05
Pacific Contiguous	19.26	--	--	1.03
California	22.86	--	--	1.02
Oregon	--	--	--	1.04
Washington	17.11	--	--	1.09
Pacific Noncontiguous	18.58	6.08	--	1.00
Alaska	14.30	5.60	--	1.00
Hawaii	20.25	6.09	--	--
U.S. Total	18.93	6.02	28.39	1.03

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

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

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

'Natural Gas' includes a small amount of supplemental gaseous fuels.

Notes: See Glossary for definitions. Values are preliminary. Data represents weighted values.

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

Table C.2. Comparison of Preliminary Monthly Data Versus Final Monthly Data at the U.S. Level, 2016 through 2018

Item	Mean Absolute Value of Percent Change Total (All Sectors)		
	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 changes.

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 kilowatt-hour 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 earth's crust from decayed organic material. The common fossil fuels are petroleum, coal, and natural gas.

Franchised service area: A specified geographical area in which a utility has been granted the exclusive right to serve customers. A franchise allows an entity to use city streets, alleys and other public lands in order to provide, distribute, and sell services to the community.

Fuel: Any material substance that can be consumed to supply heat or power. Included are petroleum, coal, and natural gas (the fossil fuels), and other consumable materials, such as uranium, biomass, and hydrogen.

Gas: A fuel burned under boilers and by internal combustion engines for electric generation. These include natural, manufactured and waste gas.

Gas turbine plant: An electric generating facility in which the prime mover is a gas (combustion) turbine. A gas turbine typically consists of an air compressor and one or more combustion chambers where either liquid or gaseous fuel is burned. The resulting hot gases are passed through the turbine where they expand to drive both an electric generator and the compressor.

Generating unit: Any combination of physically connected generators, reactors, boilers, combustion turbines, or other prime movers operated together to produce electric power.

Generator: A machine that converts mechanical energy into electrical energy.

Generator capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, adjusted for ambient conditions.

Generator nameplate capacity (installed): The maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer. Installed generator nameplate capacity is commonly expressed in megawatts (MW) and is usually indicated on a nameplate physically attached to the generator.

Geothermal: Pertaining to heat within the Earth.

Geothermal energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust. Water or steam extracted from geothermal reservoirs can be used for geothermal heat pumps, water heating, or electricity generation.

Gigawatt (GW): One billion watts.

Gigawatthour (GWh): One billion watthours.

Gross generation: The total amount of electric energy produced by generating units and measured at the generating terminal in kilowatthours (kWh) or megawatthours (MWh).

Heat content: The amount or number of British thermal units (Btu) produced by the combustion of fuel, measured in Btu/unit of measure.

Hydroelectric power: The production of electricity from the kinetic energy of falling water.

Hydroelectric power generation: Electricity generated by an electric power plant whose turbines are driven by falling water. It includes electric utility and industrial generation of hydroelectricity, unless otherwise specified. Generation is reported on a net basis, i.e., on the amount of electric energy generated after the electric energy consumed by station auxiliaries and the losses in the transformers that are considered integral parts of the station are deducted.

Hydroelectric pumped storage: Hydroelectricity that is generated during peak loads by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen: A colorless, odorless, highly flammable gaseous element. It is the lightest of all gases and the most abundant element in the universe, occurring chiefly in combination with oxygen in water and also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Independent power producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an electric utility.

Industrial sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); natural gas distribution (NAICS code 2212); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

Interdepartmental service (electric): Interdepartmental service includes amounts charged by the electric department at tariff or other specified rates for electricity supplied by it to other utility departments.

Internal combustion plant: A plant in which the prime mover is an internal combustion engine. An internal combustion engine has one or more cylinders in which the process of combustion takes place, converting energy released from the rapid burning of a fuel-air mixture into mechanical energy. Diesel or gas-fired engines are the principal types used in electric plants. The plant is usually operated during periods of high demand for electricity.

Investor-owned utility (IOU): A privately-owned electric utility whose stock is publicly traded. It is rate regulated and authorized to achieve an allowed rate of return.

Jet fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Kerosene: A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil.

Kilowatt (kW): One thousand watts.

Kilowatthour (kWh): One thousand watthours.

Light oil: Lighter fuel oils distilled off during the refining process. Virtually all petroleum used in internal combustion and gas-turbine engines is light oil.

Lignite: The lowest rank of coal, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million Btu per ton on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Manufactured gas: A gas obtained by destructive distillation of coal, or by thermal decomposition of oil, or by the reaction of steam passing through a bed of heated coal or coke. Examples are coal gases, coke oven gases, producer gas, blast furnace gas, blue (water) gas, and carbureted water gas

Mcf: One thousand cubic feet.

Megawatt (MW): One million watts of electricity.

Megawatthour (MWh): One million watthours.

Municipal utility: A nonprofit utility, owned by a local municipality and operated as a department thereof, governed by a city council or an independently elected or appointed board; primarily involved in the distribution and/or sale of electric power to ultimate consumers.

Natural gas: A gaseous mixture of hydrocarbon compounds, the primary one being methane. Note: The Energy Information Administration measures wet natural gas and its two sources of production, associated/dissolved natural gas and nonassociated natural gas, and dry natural gas, which is produced from wet natural gas.

- 1) *Wet natural gas:* A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in porous rock formations at reservoir conditions. The principal hydrocarbons normally contained in the mixture are methane, ethane, propane, butane, and pentane. Typical nonhydrocarbon gases that may be present in reservoir natural gas are water vapor, carbon dioxide, hydrogen sulfide, nitrogen and trace amounts of helium. Under reservoir conditions, natural gas and its associated liquefiable portions occur either in a single gaseous phase in the reservoir or in solution with crude oil and are not distinguishable at the time as separate substances. Note: The Securities and Exchange Commission and the Financial Accounting Standards Board refer to this product as natural gas.
 - Associated-dissolved natural gas: Natural gas that occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved gas).
 - Nonassociated natural gas: Natural gas that is not in contact with significant quantities of crude oil in the reservoir.
- 2) *Dry natural gas:* Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. Note: Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Net generation: The amount of gross generation less the electrical energy consumed at the generating station(s) for station service or auxiliaries. Note: Electricity required for pumping at pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

Net summer capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of May 1 through October 31). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Net winter capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of peak winter demand (period of November 1 through April 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

North American Electric Reliability Council (NERC): A council formed in 1968 by the electric utility industry to promote the reliability and adequacy of bulk power supply in the electric utility systems of North America. The NERC Regions are:

- 1) Texas Regional Entity (TRE),
- 2) Florida Reliability Coordinating Council (FRCC),
- 3) Midwest Reliability Organization (MRO),
- 4) Northeast Power Coordinating Council (NPCC),
- 5) ReliabilityFirst Corporation (RFC),
- 6) Southeastern Electric Reliability Council (SERC),
- 7) Southwest Power Pool (SPP), and the
- 8) Western Energy Coordinating Council (WECC).

North American Industry Classification System (NAICS): A set of codes that describes the possible purposes of a facility.

Nuclear electric power: Electricity generated by an electric power plant whose turbines are driven by steam produced by the heat from the fission of nuclear fuel in a reactor.

Other customers: Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, sales for irrigation, and interdepartmental sales.

Other generation: Electricity originating from these sources: manufactured, supplemental gaseous fuel, propane, and waste 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.

Watt-hour (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.