



*Independent Statistics & Analysis*  
U.S. Energy Information  
Administration

# Electric Power Monthly

## with Data for March 2020

May 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

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

Net Generation and Consumption of Fuels for March												
Fuel	Facility Type	Total (All Sectors)			Electric Power Sector		Commercial		Industrial		Residential	
		March 2020	March 2019	Percentage Change	Electric Utilities		Independent Power Producers		March 2020	March 2019	March 2020	March 2019
					March 2020	March 2019	March 2020	March 2019				
Net Generation (Thousand Megawatthours)												
Coal	Utility Scale Facilities	50,586	78,516	-35.6%	38,276	56,546	11,806	21,413	21	32	483	525
Petroleum Liquids	Utility Scale Facilities	704	823	-14.5%	492	597	175	180	7	8	30	38
Petroleum Coke	Utility Scale Facilities	708	639	10.9%	521	464	141	131	0	1	46	43
Natural Gas	Utility Scale Facilities	123,569	112,945	9.4%	62,528	54,667	52,171	49,673	657	702	8,213	7,903
Other Gas	Utility Scale Facilities	1,109	1,251	-11.3%	19	31	294	350	0	0	796	870
Nuclear	Utility Scale Facilities	63,997	65,080	-1.7%	35,133	34,213	28,864	30,867	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	22,269	25,546	-12.8%	19,997	23,153	2,152	2,272	16	NM	104	101
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	42,131	38,309	10.0%	5,670	5,013	33,851	30,647	288	304	2,322	2,345
... Wind	Utility Scale Facilities	29,483	26,116	12.9%	4,503	4,012	24,953	22,078	17	17	10	NM
... Solar Thermal and Photovoltaic	Utility Scale Facilities	6,314	5,910	6.8%	779	577	5,480	5,275	49	51	7	6
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,223	3,257	-1.0%	202	243	786	754	4	11	2,231	2,249
... Other Biomass	Utility Scale Facilities	1,620	1,590	1.9%	96	97	1,275	1,232	174	181	74	80
... Geothermal	Utility Scale Facilities	1,490	1,437	3.7%	90	86	1,356	1,307	44	44	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-353	-409	-13.7%	-252	-309	-101	-100	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,058	1,082	-2.2%	41	33	620	581	86	89	311	379
All Energy Sources	Utility Scale Facilities	305,779	323,782	-5.6%	162,425	174,409	129,973	136,013	1,076	1,157	12,305	12,204
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	3,409	2,918	16.8%	0	0	0	0	1,083	938	293	254
Estimated Total Solar Photovoltaic	All Facilities	9,513	8,568	11.0%	775	573	5,273	5,019	1,131	990	300	261
Estimated Total Solar	All Facilities	9,723	8,828	10.1%	779	577	5,480	5,275	1,131	990	300	261
Consumption of Fossil Fuels for Electricity Generation												
Coal (1000 tons)	Utility Scale Facilities	28,917	44,038	-34.3%	21,602	31,673	7,139	12,185	6	9	171	172
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,330	1,449	-8.2%	947	1,072	335	323	17	16	32	39
Petroleum Coke (1000 tons)	Utility Scale Facilities	273	266	2.5%	210	193	50	60	0	0	13	13
Natural Gas (1000 Mcf)	Utility Scale Facilities	899,962	815,951	10.3%	475,282	415,407	371,903	349,668	4,021	4,332	48,756	46,544
Consumption of Fossil Fuels for Useful Thermal Output												
Coal (1000 tons)	Utility Scale Facilities	926	1,127	-17.9%	135	202	40	108	34	45	716	772
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	119	172	-30.9%	3	4	13	22	19	29	84	118
Petroleum Coke (1000 tons)	Utility Scale Facilities	41	77	-46.7%	1	1	9	9	0	1	31	66
Natural Gas (1000 Mcf)	Utility Scale Facilities	105,716	104,850	0.8%	3,947	3,703	29,648	29,358	6,685	6,896	65,436	64,893
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output												
Coal (1000 tons)	Utility Scale Facilities	29,843	45,165	-33.9%	21,737	31,874	7,179	12,292	41	54	887	944
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,449	1,621	-10.6%	949	1,076	348	344	36	44	116	156
Petroleum Coke (1000 tons)	Utility Scale Facilities	314	343	-8.5%	211	194	59	68	0	2	44	79
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,005,678	920,801	9.2%	479,229	419,110	401,550	379,026	10,706	11,228	114,193	111,438
Fuel Stocks (end-of-month)												
Coal (1000 tons)	Utility Scale Facilities	146,042	97,701	49.5%	116,736	79,627	28,715	17,475	57	62	534	537
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	26,569	27,842	-4.6%	16,402	17,016	8,990	9,250	377	392	800	1,183
Petroleum Coke (1000 tons)	Utility Scale Facilities	650	633	2.7%	523	482	14	16	2	2	111	133

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for March													
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)						
	March 2020	March 2019	Percentage Change	March 2020	March 2019	Percentage Change	March 2020	March 2019	Percentage Change				
Residential	103,973	112,140	-7.3%	13,602	14,420	-5.7%	13.08	12.86	1.7%				
Commercial	102,933	106,889	-3.7%	10,715	11,174	-4.1%	10.41	10.45	-0.4%				
Industrial	77,509	77,198	0.4%	4,961	5,191	-4.4%	6.40	6.72	-4.8%				
Transportation	604	689	-12.4%	59	64	-7.8%	9.77	9.28	5.3%				
All Sectors	285,019	296,916	-4.0%	29,337	30,849	-4.9%	10.29	10.39	-1.0%				

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 Liqu

**Table ES1.B. Total Electric Power Industry Summary Statistics, Year-to-Date 2020 and 2019**

Net Generation and Consumption of Fuels for January through March													
Fuel	Facility Type	Total (All Sectors)			Electric Power Sector			Commercial		Industrial		Residential	
		March 2020 YTD	March 2019 YTD	Percentage Change	Electric Utilities	Independent Power Producers	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD
Net Generation (Thousand Megawatthours)													
Coal	Utility Scale Facilities	171,828	259,629	-33.8%	128,322	191,131	41,916	66,733	71	94	1,518	1,671	0
Petroleum Liquids	Utility Scale Facilities	2,387	2,988	-20.1%	1,837	2,013	431	823	21	29	97	122	0
Petroleum Coke	Utility Scale Facilities	1,847	2,225	-17.0%	1,380	1,662	321	422	2	3	144	137	0
Natural Gas	Utility Scale Facilities	382,573	343,257	11.5%	190,149	166,435	164,874	150,659	2,086	2,091	25,464	24,072	0
Other Gas	Utility Scale Facilities	3,554	3,476	2.2%	27	65	1,070	1,073	0	0	2,456	2,337	0
Nuclear	Utility Scale Facilities	204,152	203,495	0.3%	111,934	108,262	92,218	95,234	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	71,632	71,582	0.1%	64,968	64,751	6,308	6,484	55	57	302	290	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	121,959	106,407	14.6%	16,256	13,614	97,971	85,052	816	851	6,916	6,890	0
... Wind	Utility Scale Facilities	87,121	74,238	17.4%	13,179	10,912	73,863	63,251	49	49	30	26	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	16,520	13,392	23.4%	1,915	1,332	14,465	11,930	124	115	16	14	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	9,726	9,955	-2.3%	673	842	2,393	2,457	18	28	6,642	6,628	0
... Other Biomass	Utility Scale Facilities	4,689	4,656	0.7%	266	276	3,693	3,626	503	532	227	222	0
... Geothermal	Utility Scale Facilities	3,901	4,167	-6.4%	222	251	3,557	3,788	122	127	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-1,006	-1,121	-10.3%	-789	-866	-217	-254	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	3,108	3,279	-5.2%	125	108	1,778	1,757	255	263	950	1,151	0
All Energy Sources	Utility Scale Facilities	962,033	995,216	-3.3%	514,209	547,175	406,669	407,983	3,308	3,388	37,847	36,671	0
Estimated Small Scale Solar Photovoltaic	Small Scale Facilities	8,312	6,886	20.7%	0	0	0	0	2,645	2,250	697	600	4,969
Estimated Total Solar Photovoltaic	All Facilities	24,313	19,776	22.9%	1,908	1,323	13,953	11,437	2,769	2,366	714	614	4,969
Estimated Total Solar	All Facilities	24,832	20,277	22.5%	1,915	1,332	14,465	11,930	2,769	2,366	714	614	4,969
Consumption of Fossil Fuels for Electricity Generation													
Coal (1000 tons)	Utility Scale Facilities	97,585	144,925	-32.7%	72,394	106,336	24,630	37,974	20	26	541	589	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	4,437	5,283	-16.0%	3,447	3,696	838	1,411	50	52	102	124	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	732	878	-16.7%	561	674	130	166	1	1	41	38	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	2,754,639	2,469,554	11.5%	1,430,741	1,253,880	1,161,206	1,061,043	12,769	12,978	149,923	141,653	0
Consumption of Fossil Fuels for Useful Thermal Output													
Coal (1000 tons)	Utility Scale Facilities	2,975	3,571	-16.7%	449	615	145	366	109	138	2,272	2,451	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	385	733	-47.5%	10	32	35	87	61	101	279	513	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	167	216	-22.6%	4	4	27	24	3	4	133	184	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	322,576	318,345	1.3%	11,865	11,485	89,526	88,604	21,008	21,419	200,177	196,837	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output													
Coal (1000 tons)	Utility Scale Facilities	100,561	148,496	-32.3%	72,843	106,951	24,775	38,340	130	165	2,813	3,039	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	4,822	6,016	-19.8%	3,457	3,727	873	1,499	111	152	380	638	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	899	1,094	-17.8%	564	678	157	190	4	5	174	221	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	3,077,215	2,787,899	10.4%	1,442,606	1,265,366	1,250,732	1,149,646	33,777	34,396	350,100	338,490	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through March															
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)			March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	Percentage Change
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	Percentage Change						
Residential	339,667	361,400	-6.0%	43,810	45,826	-4.4%	12.90	12.68	1.7%						
Commercial	312,686	319,869	-2.2%	32,356	33,353	-3.0%	10.35	10.43	-0.8%						
Industrial	230,519	228,156	1.0%	14,718	15,198	-3.2%	6.38	6.66	-4.2%						
Transportation	1,939	2,064	-6.1%	184	203	-9.0%	9.50	9.81	-3.2%						
All Sectors	884,810	911,489	-2.9%	91,068	94,580	-3.7%	10.29	10.38	-0.9%						

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

**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			
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
Coal (1000 tons)	34,712	41,993	36.78	40.68	209	247	114,473	138,736	36.55	40.18
Petroleum Liquids (1000 barrels)	1,115	1,243	63.27	86.95	116	127	3,100	4,099	74.38	80.40
Petroleum Coke (1000 tons)	174	130	38.61	69.63	4	4	713	477	41.78	64.15
Natural Gas (1000 Mcf)	846,496	780,542	2.22	3.56	550	560	2,607,696	2,373,179	2.48	3.83
Electric Utilities										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date			
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
Coal (1000 tons)	25,781	29,813	37.47	42.07	148	168	84,449	100,892	37.33	41.54
Petroleum Liquids (1000 barrels)	855	1,012	62.92	86.90	84	87	2,535	3,102	74.02	80.86
Petroleum Coke (1000 tons)	174	130	38.61	69.63	4	4	713	477	41.78	64.15
Natural Gas (1000 Mcf)	425,006	374,986	2.44	3.77	285	293	1,279,024	1,134,175	2.72	4.02
Independent Power Producers										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date			
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
Coal (1000 tons)	8,311	11,549	33.26	36.18	47	62	28,231	35,965	33.20	35.63
Petroleum Liquids (1000 barrels)	229	210	64.15	87.69	22	31	476	918	76.18	78.68
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	356,790	341,038	1.93	3.37	219	220	1,129,835	1,040,968	2.20	3.65
Commercial Sector										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date			
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
Coal (1000 tons)	0	2	--	65.86	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)	722	812	3.22	3.47	3	3	2,147	2,308	3.23	3.49
Industrial Sector										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date			
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
Coal (1000 tons)	621	629	55.19	57.20	14	16	1,790	1,875	52.03	53.92
Petroleum Liquids (1000 barrels)	31	21	66.35	82.27	10	9	89	78	75.01	81.93
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	63,979	63,706	2.05	3.22	43	44	196,690	195,728	2.23	3.57

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		Receipts		Year-to-Date	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
Coal	659,206	820,727	1.94	2.08	209	247	2,167,322	2,670,910	1.93	2.09
Petroleum Liquids	6,734	7,501	10.48	14.41	116	127	18,655	24,821	12.36	13.28
Petroleum Coke	4,942	3,725	1.36	2.43	4	4	20,277	13,659	1.47	2.24
Natural Gas	875,795	805,916	2.14	3.45	550	560	2,698,004	2,453,907	2.39	3.70
Fossil Fuels	1,546,678	1,637,869	2.09	2.79	685	714	4,904,258	5,163,297	2.22	2.88

Electric Utilities										
Fuel	Receipts		Cost		Number of Plants		Receipts		Year-to-Date	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
Coal	490,792	585,096	1.97	2.14	148	168	1,604,174	1,948,804	1.97	2.15
Petroleum Liquids	5,191	6,135	10.36	14.34	84	87	15,315	18,865	12.25	13.30
Petroleum Coke	4,942	3,725	1.36	2.43	4	4	20,277	13,659	1.47	2.24
Natural Gas	439,598	386,643	2.36	3.66	285	293	1,321,886	1,172,553	2.63	3.89
Fossil Fuels	940,523	981,599	2.19	2.81	381	396	2,961,651	3,153,881	2.31	2.86

Independent Power Producers										
Fuel	Receipts		Cost		Number of Plants		Receipts		Year-to-Date	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
Coal	155,393	222,160	1.78	1.88	47	62	526,172	683,050	1.78	1.87
Petroleum Liquids	1,351	1,239	10.89	14.88	22	31	2,798	5,477	12.97	13.19
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	369,642	352,850	1.87	3.25	219	220	1,171,293	1,077,222	2.12	3.53
Fossil Fuels	526,385	576,248	1.86	2.70	256	268	1,700,263	1,765,749	2.02	2.85

Commercial Sector										
Fuel	Receipts		Cost		Number of Plants		Receipts		Year-to-Date	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
Coal	0	48	--	2.90	0	1	84	113	2.96	2.90
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	751	839	3.10	3.36	3	3	2,238	2,389	3.10	3.38
Fossil Fuels	751	887	3.10	3.33	3	3	2,322	2,502	3.10	3.35

Industrial Sector										
Fuel	Receipts		Cost		Number of Plants		Receipts		Year-to-Date	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
Coal	13,022	13,424	2.63	2.68	14	16	36,892	38,943	2.52	2.60
Petroleum Liquids	192	126	10.77	13.43	10	9	542	479	12.24	13.43
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	65,805	65,584	2.00	3.13	43	44	202,587	201,742	2.17	3.46
Fossil Fuels	79,019	79,134	2.12	3.07	45	47	240,022	241,165	2.24	3.34

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-March 2020**  
 (Thousand Megawatthours)

Period	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
<b>Annual Totals</b>														
2010	1,847,290	23,337	13,724	987,897	11,313	806,968	260,203	1,212	165,961	-5,501	12,855	4,125,060	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
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
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
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
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
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
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
2018	1,149,487	16,245	8,981	1,468,932	13,463	807,084	292,524	63,825	350,467	-5,905	12,973	4,178,077	29,539	89,773
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
<b>Year 2018</b>														
January	119,284	5,555	965	110,277	1,097	74,649	25,064	3,319	32,443	-547	1,109	373,214	1,619	4,810
February	82,050	804	754	98,498	1,092	64,790	24,902	3,896	29,415	-315	994	306,880	1,766	5,472
March	80,626	830	642	106,509	1,158	67,033	25,861	5,056	33,200	-490	1,108	321,532	2,434	7,233
April	73,346	872	666	98,360	1,099	59,133	28,115	6,057	32,446	-377	1,028	300,745	2,740	8,482
May	85,227	1,040	517	115,274	1,167	67,320	30,444	6,849	30,419	-390	1,070	338,938	3,011	9,860
June	101,503	1,066	834	130,813	1,091	69,688	27,597	7,415	31,193	-433	1,104	371,872	3,059	9,957
July	115,376	988	913	164,725	1,172	72,456	25,100	6,755	23,316	-644	1,111	411,266	3,146	9,521
August	115,129	1,047	879	161,654	1,301	72,282	22,017	6,695	26,601	-747	1,146	408,005	3,017	9,303
Sept	96,544	1,055	799	141,768	1,104	64,725	19,166	5,961	24,718	-603	1,004	356,240	2,674	8,205
October	87,264	1,015	562	123,122	1,016	59,397	19,548	4,970	27,426	-492	1,084	324,912	2,392	7,361
November	92,819	1,006	656	108,150	1,045	63,954	21,913	3,743	28,334	-343	1,075	322,351	1,905	5,480
December	100,319	966	795	109,784	1,120	71,657	22,797	3,110	30,956	-522	1,139	342,121	1,775	4,792
<b>Year 2019</b>														
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
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
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
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
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
June	78,610	976	555	136,994	1,025	68,805	26,469	8,006	29,202	-385	1,107	351,363	3,615	11,620
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
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
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
October	66,829	955	198	133,667	997	62,033	16,292	6,131	34,060	-373	1,087	321,875	2,840	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
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
<b>Year 2020</b>														
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
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
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
<b>Year to Date</b>														
2018	281,960	7,189	2,360	315,284	3,347	206,472	75,827	12,272	95,057	-1,352	3,212	1,001,627	5,820	17,515
2019	259,629	2,988	2,225	343,257	3,476	203,495	71,582	13,392	93,015	-1,121	3,279	995,216	6,886	19,776
2020	171,828	2,387	1,84											

**Table 1.1.A. Net Generation from Renewable Sources: Total (All Sectors), 2010-March 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
<b>Annual Totals</b>													
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
<b>Year 2018</b>													
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
<b>Year 2019</b>													
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
<b>Year 2020</b>													
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
<b>Year to Date</b>													
2018	75,252	11,695	577	10,468	2,843	1,743	768	3,982	75,827	183,156	5,820	17,515	18,091
2019	74,238	12,890	502	9,955	2,532	1,485	638	4,167	71,582	177,989	6,886	19,776	20,277
2020	87,121	16,001	519	9,726	2,555	1,520	614	3,901	71,632	193,591	8,312	24,313	24,832
<b>Rolling 12 Months Ending in March</b>													
2019	271,653	61,428	3,517	40,423	10,726	6,878	2,594	16,152	288,279	701,649	30,605	92,034	95,551
2020	312,955	72,128	3,235	39,621	10,098	6,139	2,358	15,745	273,758	736,037	36,467	108,595	111,829

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.

**Table 1.2.A. Net Generation by Energy Source: Electric Utilities, 2010-March 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	
<b>Annual Totals</b>												
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
<b>Year 2018</b>												
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
<b>Year 2019</b>												
January	74,996	855	634	57,279	12	39,806	21,811	369	4,209	-247	42	199,767
February	59,589	561	564	54,489	22	34,243	19,786	386	3,636	-310	33	172,999
March	56,546	597	464	54,667	31	34,213	23,153	577	4,437	-309	33	174,409
April	44,241	534	276	50,523	0	32,063	23,235	641	5,024	-26	37	156,547
May	55,081	671	552	58,730	0	35,416	27,682	661	4,199	-305	44	182,728
June	60,148	724	398	69,984	23	36,847	24,285	638	3,886	-299	41	196,676
July	77,053	715	551	87,423	18	39,023	21,637	655	3,625	-505	40	230,233
August	71,916	809	501	89,675	16	39,218	19,389	616	3,175	-470	51	224,895
Sept	64,867	693	460	75,933	10	34,770	14,984	616	4,111	-583	43	195,903
October	49,122	698	146	66,403	0	32,289	14,927	547	4,621	-316	43	168,480
November	55,304	632	251	56,310	19	32,923	18,763	454	4,149	-424	41	168,422
December	53,470	693	315	61,054	2	39,861	20,054	387	4,428	-465	44	179,844
<b>Year 2020</b>												
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
<b>Year to Date</b>												
2018	208,462	3,702	1,836	156,673	59	108,569	69,608	1,047	12,528	-1,109	127	561,504
2019	191,131	2,013	1,662	166,435	65	108,262	64,751	1,332	12,282	-866	108	547,175
2020	128,322	1,837	1,380	190,149	27	111,934	64,968	1,915	14,340	-789	125	514,209
<b>Rolling 12 Months Ending in March</b>												
2019	846,173	8,419	6,644	729,967	158	423,944	262,479	5,200	43,937	-4,543	542	2,322,920
2020	659,524	8,006	4,830	806,185	115	434,343	249,924	7,131	51,557	-4,183	507	2,217,940

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.

**Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2010-March 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	
<b>Annual Totals</b>												
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	645,416	3,935	382,833	23,812	58,337	275,154	-1,119	6,677	1,680,717
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
<b>Year 2018</b>												
January	29,839	2,951	137	45,656	318	35,283	1,856	3,000	25,364	-72	575	144,908
February	20,261	133	126	41,972	320	30,849	1,929	3,549	23,179	-89	543	122,772
March	21,377	186	96	46,421	331	31,770	2,114	4,563	26,260	-82	564	133,600
April	17,506	199	137	42,453	326	28,553	2,392	5,522	25,872	-82	527	123,405
May	20,600	248	124	48,752	379	32,841	2,264	6,325	24,380	-81	526	136,356
June	22,994	268	100	55,384	303	33,251	1,724	6,845	24,920	-95	582	146,277
July	26,647	260	139	73,943	344	34,163	1,700	6,214	17,729	-123	586	161,601
August	27,157	292	139	74,104	369	33,398	1,858	6,158	20,775	-121	579	164,708
Sept	22,941	233	108	64,319	328	30,348	1,692	5,475	18,927	-103	515	144,783
October	21,834	218	126	55,441	255	28,033	1,855	4,508	21,450	-87	556	134,189
November	23,393	245	140	47,605	311	30,911	2,150	3,386	22,175	-88	551	130,779
December	24,120	254	144	49,366	350	33,434	2,277	2,792	24,124	-96	574	137,339
<b>Year 2019</b>												
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
<b>Year 2020</b>												
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
<b>Year to Date</b>												
2018	71,476	3,271	359	134,049	970	97,902	5,899	11,112	74,803	-243	1,682	401,280
2019	66,733	823	422	150,659	1,073	95,234	6,484	11,930	73,122	-254	1,757	407,983
2020	41,916	431	321	164,874	1,070	92,218	6,308	14,465	83,507	-217	1,778	406,669
<b>Rolling 12 Months Ending in March</b>												
2019	273,925	3,040	1,580	662,026	4,038	380,165	24,396	59,155	273,474	-1,130	6,752	1,687,420
2020	212,357	2,450	NM	706,478	4,149	375,722	22,493	67,535	304,992	-963	7,238	1,703,561

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

**Table 1.2.C. Net Generation by Energy Source: Commercial Sector, 2010-March 2020**  
 (Thousand Megawatthours)

Period	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 Solar
<b>Annual Totals</b>															
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
<b>Year 2018</b>															
January	40	41	1	671	0	0	19	29	229	0	84	1,114	552	581	581
February	32	7	1	626	0	0	19	31	206	0	72	995	605	636	636
March	27	7	1	647	0	0	21	43	227	0	83	1,058	820	863	863
April	24	8	0	585	0	0	24	50	217	0	81	989	907	957	957
May	21	7	0	656	0	0	24	57	221	0	90	1,076	992	1,048	1,048
June	20	7	0	737	0	0	21	62	224	0	92	1,163	1,003	1,065	1,065
July	21	11	0	875	0	0	19	59	223	0	90	1,298	1,036	1,094	1,094
August	23	9	0	892	0	0	17	56	230	0	90	1,318	993	1,049	1,049
Sept	24	7	1	771	0	0	16	46	213	0	80	1,156	893	938	938
October	20	7	1	668	0	0	14	39	223	0	83	1,055	786	826	826
November	25	12	1	622	0	0	16	29	212	0	77	993	623	652	652
December	24	9	1	669	0	0	17	25	262	0	88	1,095	589	614	614
<b>Year 2019</b>															
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
<b>Year 2020</b>															
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
<b>Year to Date</b>															
2018	100	56	3	1,944	0	0	59	103	663	0	239	3,167	1,977	2,080	2,080
2019	94	29	3	2,091	0	0	57	115	735	0	263	3,388	2,250	2,366	2,366
2020	71	21	2	2,086	0	0	55	124	692	0	255	3,308	2,645	2,769	2,769
<b>Rolling 12 Months Ending in March</b>															
2019	296	106	7	8,566	0	0	NM	538	2,761	0	1,034	13,533	10,072	10,610	10,610
2020	NM	104	4	8,643	0	0	NM	617	2,658	0	1,057	13,544	11,492	12,109	12,109

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 include 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

**Table 1.2.D. Net Generation by Energy Source: Industrial Sector, 2010–March 2020**  
(Thousand Megawatthours)

Period	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 Solar
<b>Annual Totals</b>															
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
<b>Year 2018</b>															
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
<b>Year 2019</b>															
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
<b>Year 2020</b>															
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
<b>Year to Date</b>															
2018	1,921	160	163	22,617	2,318	0	260	9	7,063	0	1,164	35,675	523	532	532
2019	1,671	122	137	24,072	2,337	0	290	14	6,876	0	1,151	36,671	600	614	614
2020	1,518	97	144	25,464	2,456	0	302	16	6,899	0	950	37,847	697	714	714
<b>Rolling 12 Months Ending in March</b>															
2019	6,761	479	614	96,347	9,396	0	1,179	53	28,253	0	4,712	147,794	2,713	2,766	2,766
2020	6,215	414	NM	99,826	9,447	0	1,131	81	27,709	0	4,329	149,822	3,139	3,220	3,220

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 include 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,

**Table 1.2.E. Net Generation by Energy Source: Residential Sector, 2014-March 2020  
(Thousand Megawatthours)**

Period	Small Scale Generation	
	Estimated Small Scale Solar Photovoltaic Generation	
<b>Annual Totals</b>		
2014		4,947
2015		6,999
2016		10,595
2017		13,942
2018		17,105
2019		20,902
<b>Year 2018</b>		
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
<b>Year 2019</b>		
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
<b>Year 2020</b>		
January		1,369
February		1,566
March		2,034
<b>Year to Date</b>		
2018		3,320
2019		4,036
2020		4,969
<b>Rolling 12 Months Ending in March</b>		
2019		17,820
2020		21,836

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, March 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							
March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020						
New England	7,489	8,605	-13.0%	164	195	6,961	8,057	112	111	253	242
Connecticut	3,454	3,238	6.7%	7	8	3,352	3,149	35	34	59	47
Maine	846	908	-6.8%	0	0	681	738	10	12	155	158
Massachusetts	989	2,190	-54.8%	44	43	865	2,069	57	54	23	24
New Hampshire	1,388	1,450	-4.3%	34	74	1,346	1,367	6	7	3	3
Rhode Island	601	623	-3.4%	0	0	585	607	4	4	13	NM
Vermont	210	196	6.9%	78	70	132	126	0	0	0	0
Middle Atlantic	33,452	34,261	-2.4%	2,853	2,827	30,054	30,870	184	184	362	380
New Jersey	4,472	5,518	-19.0%	NM	6	4,354	5,403	47	44	63	63
New York	10,461	9,472	10.4%	2,833	2,806	7,442	6,476	107	105	78	84
Pennsylvania	18,519	19,271	-3.9%	11	14	18,258	18,991	29	34	221	232
East North Central	42,412	49,262	-13.9%	14,755	18,232	26,540	29,888	144	155	974	988
Illinois	13,119	15,280	-14.1%	331	392	12,527	14,625	32	33	228	230
Indiana	6,947	9,121	-23.8%	4,060	6,403	2,468	2,291	22	21	397	407
Michigan	8,717	9,480	-8.0%	5,511	6,387	3,023	2,889	59	71	124	133
Ohio	8,671	10,409	-16.7%	961	1,215	7,628	9,113	18	17	65	65
Wisconsin	4,958	4,973	-0.3%	3,892	3,835	893	970	13	13	159	154
West North Central	25,540	28,342	-9.9%	18,398	22,050	6,750	5,912	47	60	346	321
Iowa	4,238	5,557	-23.7%	2,770	4,190	1,281	1,177	15	20	171	169
Kansas	4,043	4,110	-1.6%	2,197	2,407	1,817	1,692	NM	NM	28	10
Minnesota	4,301	4,585	-6.2%	2,990	3,419	1,196	1,024	14	21	101	121
Missouri	5,219	6,286	-17.0%	4,642	5,776	559	492	14	16	4	3
Nebraska	2,998	3,101	-3.3%	2,235	2,411	733	682	2	1	29	NM
North Dakota	3,513	3,600	-2.4%	2,742	2,943	757	645	NM	NM	13	12
South Dakota	1,229	1,103	11.4%	822	903	407	199	NM	NM	0	0
South Atlantic	60,095	59,489	1.0%	49,416	48,585	8,920	9,127	138	161	1,622	1,617
Delaware	266	426	-37.6%	NM	NM	152	314	0	1	113	111
District of Columbia	9	9	-2.4%	0	0	NM	NM	8	8	0	0
Florida	19,446	17,743	9.6%	17,968	16,633	1,032	680	7	6	440	424
Georgia	7,697	7,945	-3.1%	5,885	6,454	1,363	1,059	NM	NM	449	432
Maryland	2,837	3,480	-18.5%	295	551	2,468	2,812	70	90	4	27
North Carolina	9,010	9,890	-8.9%	7,368	8,226	1,471	1,495	21	25	150	144
South Carolina	8,181	7,849	4.2%	7,841	7,540	190	158	0	0	150	151
Virginia	8,825	7,489	17.8%	7,174	5,867	1,409	1,391	31	31	210	200
West Virginia	3,823	4,658	-17.9%	2,885	3,313	832	1,216	0	0	106	128
East South Central	25,567	29,221	-12.5%	21,525	24,451	3,235	4,015	20	17	787	738
Alabama	10,627	11,018	-3.6%	7,357	7,558	2,869	3,079	0	0	400	380
Kentucky	4,161	5,884	-29.3%	4,103	5,797	8	39	0	0	50	49
Mississippi	4,297	4,960	-13.4%	3,823	3,964	321	860	0	0	153	137
Tennessee	6,482	7,358	-11.9%	6,241	7,132	36	37	20	17	184	172
West South Central	54,022	53,661	0.7%	17,928	17,187	29,622	30,059	74	91	6,398	6,325
Arkansas	4,070	4,944	-17.7%	3,562	4,302	415	485	NM	NM	88	154
Louisiana	8,626	7,254	18.9%	5,869	3,824	313	723	16	13	2,428	2,693
Oklahoma	6,251	6,294	-0.7%	2,647	2,932	3,527	3,283	0	0	78	79
Texas	35,075	35,170	-0.3%	5,850	6,129	25,368	25,568	53	74	3,804	3,399
Mountain	26,482	28,900	-8.4%	19,719	21,634	6,403	6,921	88	90	273	254
Arizona	7,117	8,692	-18.1%	6,129	7,518	977	1,162	12	12	0	0
Colorado	4,411	4,519	-2.4%	3,220	3,391	1,182	1,119	3	2	6	7
Idaho	1,443	1,226	17.7%	865	769	521	404	4	3	53	49
Montana	1,972	2,562	-23.0%	825	860	1,144	1,700	0	0	3	2
Nevada	3,081	2,946	4.6%	2,061	1,914	935	944	53	55	32	33
New Mexico	2,556	2,185	17.0%	1,465	1,150	1,074	1,027	7	9	10	0
Utah	2,496	3,187	-21.7%	2,163	2,813	298	312	8	9	27	54
Wyoming	3,406	3,583	-4.9%	2,992	3,220	272	253	0	0	142	109
Pacific Contiguous	29,443	30,811	-4.4%	16,846	18,437	11,123	10,839	213	226	1,260	1,309
California	14,823	16,901	-12.3%	5,243	7,606	8,293	7,936	203	218	1,084	1,140
Oregon	5,851	5,509	6.2%	3,927	3,915	1,854	1,532	7	5	63	57
Washington	8,768	8,401	4.4%	7,675	6,916	976	1,371	3	3	113	112
Pacific Noncontiguous	1,276	1,229	3.8%	823	812	366	325	56	62	31	31
Alaska	530	498	6.5%	474	443	20	18	25	NM	11	11
Hawaii	746	732	2.0%	349	368	345	307	32	37	20	20
U.S. Total	305,779	323,782	-5.6%	162,425	174,409	129,973	136,013	1,076	1,157	12,305	12,204

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

**Table 1.3.B. Utility Scale Facility Net Generation****by State, by Sector, Year-to-Date through March 2020 and 2019 (Thousand Megawatthours)**

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities				Generation at Utility Scale Facilities	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	24,620	25,583	-3.8%	560	716	22,954	23,816	343	348	763	703
Connecticut	10,776	9,744	10.6%	19	24	10,471	9,465	108	106	179	149
Maine	2,534	2,718	-6.8%	0	0	2,036	2,241	31	39	467	438
Massachusetts	4,468	6,690	-33.2%	130	122	4,092	6,327	176	170	70	70
New Hampshire	4,303	4,243	1.4%	164	334	4,115	3,881	15	21	8	7
Rhode Island	1,916	1,585	20.9%	0	0	1,865	1,534	11	12	40	39
Vermont	624	603	3.5%	248	235	375	367	1	1	0	0
Middle Atlantic	105,625	107,154	-1.4%	8,720	8,444	95,227	97,010	563	552	1,115	1,149
New Jersey	14,898	17,118	-13.0%	-13	16	14,571	16,787	141	129	199	186
New York	32,845	31,182	5.3%	8,698	8,385	23,587	22,239	324	319	237	239
Pennsylvania	57,882	58,854	-1.7%	35	43	57,069	57,984	98	104	679	723
East North Central	136,924	151,962	-9.9%	47,562	57,024	86,009	91,552	449	462	2,904	2,924
Illinois	41,147	47,085	-12.6%	1,392	1,240	38,965	45,038	102	99	688	709
Indiana	21,601	27,491	-21.4%	12,714	19,256	7,615	7,020	66	58	1,206	1,158
Michigan	28,342	29,659	-4.4%	18,075	20,351	9,717	8,690	188	214	361	404
Ohio	30,018	31,784	-5.6%	3,113	3,701	26,667	27,837	54	56	184	190
Wisconsin	15,817	15,942	-0.8%	12,268	12,477	3,046	2,966	38	36	464	463
West North Central	84,109	88,853	-5.3%	63,302	71,572	19,624	16,111	154	168	1,029	1,001
Iowa	14,649	16,787	-12.7%	10,329	12,925	3,741	3,301	54	58	526	503
Kansas	12,558	13,087	-4.0%	7,099	8,422	5,392	4,629	NM	NM	64	33
Minnesota	13,774	14,604	-5.7%	10,058	11,397	3,387	2,812	46	56	283	338
Missouri	18,312	20,893	-12.4%	16,638	19,533	1,617	1,306	44	44	13	10
Nebraska	9,635	9,497	1.5%	7,351	7,651	2,176	1,764	5	5	103	77
North Dakota	11,375	10,767	5.6%	9,117	8,980	2,215	1,746	NM	NM	41	40
South Dakota	3,806	3,218	18.2%	2,710	2,665	1,096	553	NM	NM	0	0
South Atlantic	184,411	185,586	-0.6%	152,404	154,404	26,819	26,071	443	449	4,745	4,662
Delaware	892	1,013	-12.0%	NM	1	559	711	1	2	330	300
District of Columbia	32	25	26.9%	0	0	NM	NM	29	23	0	0
Florida	55,697	52,484	6.1%	51,706	49,146	2,798	2,091	19	18	1,174	1,230
Georgia	25,638	26,645	-3.8%	20,514	22,419	3,802	2,959	NM	NM	1,321	1,266
Maryland	8,385	9,874	-15.1%	908	1,388	7,232	8,164	235	250	11	73
North Carolina	29,604	30,214	-2.0%	24,952	25,770	4,121	3,944	68	70	463	431
South Carolina	24,669	24,477	0.8%	23,704	23,599	497	422	1	1	466	455
Virginia	26,687	24,630	8.4%	21,080	19,675	4,891	4,280	89	85	626	591
West Virginia	12,808	16,223	-21.1%	9,538	12,407	2,916	3,498	0	0	354	318
East South Central	83,606	88,192	-5.2%	71,271	75,660	9,897	10,229	61	55	2,377	2,248
Alabama	32,688	34,395	-5.0%	23,116	25,319	8,364	7,921	0	0	1,208	1,155
Kentucky	15,104	18,611	-18.8%	14,926	18,361	28	112	0	0	150	138
Mississippi	15,897	14,497	9.7%	14,025	11,955	1,407	2,113	0	0	465	429
Tennessee	19,917	20,690	-3.7%	19,204	20,026	98	83	61	55	554	525
West South Central	164,966	164,737	0.1%	50,726	54,094	93,708	90,997	241	266	20,292	19,379
Arkansas	12,058	15,789	-23.6%	10,475	13,907	1,258	1,418	NM	NM	310	454
Louisiana	24,926	21,796	14.4%	15,997	11,635	1,046	1,987	47	41	7,836	8,134
Oklahoma	19,948	19,518	2.2%	8,143	9,289	11,571	10,007	0	0	234	223
Texas	108,034	107,633	0.4%	16,110	19,264	79,833	77,586	179	215	11,912	10,569
Mountain	83,914	90,911	-7.7%	62,985	70,650	19,876	19,262	255	261	798	738
Arizona	23,198	26,130	-11.2%	19,434	23,263	3,730	2,829	35	37	0	0
Colorado	13,808	14,134	-2.3%	10,280	11,006	3,499	3,102	11	6	19	20
Idaho	4,820	3,954	21.9%	3,068	2,666	1,583	1,136	13	11	156	141
Montana	6,446	7,636	-15.6%	2,840	2,623	3,595	5,004	0	0	11	9
Nevada	8,988	8,932	0.6%	5,984	6,049	2,785	2,652	149	154	70	77
New Mexico	8,370	8,080	3.6%	5,211	5,044	3,126	3,010	23	26	10	0
Utah	8,457	10,430	-18.9%	7,558	9,443	761	818	25	26	112	143
Wyoming	9,827	11,615	-15.4%	8,610	10,556	798	711	0	0	419	348
Pacific Contiguous	89,884	88,540	1.5%	53,863	52,083	31,659	32,034	627	650	3,734	3,774
California	42,580	46,038	-7.5%	15,641	18,817	23,126	23,307	602	624	3,212	3,291
Oregon	18,502	16,478	12.3%	13,141	11,733	5,156	4,568	19	17	186	159
Washington	28,802	26,023	10.7%	25,082	21,533	3,378	4,158	6	9	337	324
Pacific Noncontiguous	3,976	3,697	7.5%	2,816	2,528	896	901	172	176	91	92
Alaska	1,720	1,501	14.6%	1,544	1,336	63	56	82	78	31	31
Hawaii	2,256	2,19									

**Table 1.4.A. Utility Scale Facility Net Generation from Coal  
by State, by Sector, March 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							
March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020						
New England	4	-92.9%	0	26	1	23	0	0	NM	NM	
Connecticut	-2	-114.8%	0	0	-2	16	0	0	0	0	0
Maine	6	-38.3%	0	0	4	7	0	0	NM	NM	
Massachusetts	0	--	0	0	0	0	0	0	0	0	0
New Hampshire	0	-100.0%	0	26	0	0	0	0	0	0	0
Rhode Island	0	--	0	0	0	0	0	0	0	0	0
Vermont	0	--	0	0	0	0	0	0	0	0	0
Middle Atlantic	1,979	-47.8%	0	0	1,973	3,778	0	0	5	11	
New Jersey	80	-11.8%	0	0	80	90	0	0	0	0	
New York	97	47.7%	0	0	97	66	0	0	0	0	
Pennsylvania	1,802	-50.4%	0	0	1,797	3,622	0	0	5	11	
East North Central	11,685	-42.7%	7,194	11,633	4,319	8,563	4	7	167	183	
Illinois	1,730	-61.5%	41	342	1,556	4,008	NM	NM	132	138	
Indiana	3,365	-39.9%	2,993	5,280	370	319	3	4	0	0	
Michigan	2,068	-39.5%	2,028	3,411	34	3	0	0	NM	NM	
Ohio	2,652	-43.5%	292	464	2,360	4,233	0	0	0	0	
Wisconsin	1,870	-14.0%	1,841	2,137	0	0	0	0	30	38	
West North Central	9,262	-28.8%	9,099	12,844	0	0	6	11	158	161	
Iowa	535	-72.5%	420	1,824	0	0	5	8	110	117	
Kansas	836	-29.8%	836	1,191	0	0	0	0	0	0	
Minnesota	866	-32.2%	854	1,244	0	0	0	1	NM	31	
Missouri	3,424	-22.7%	3,423	4,425	0	0	0	2	0	0	
Nebraska	1,478	-10.0%	1,449	1,636	0	0	0	0	29	NM	
North Dakota	1,950	-12.8%	1,943	2,229	0	0	0	0	NM	NM	
South Dakota	173	-41.2%	173	295	0	0	0	0	0	0	
South Atlantic	6,275	-41.2%	5,676	9,094	554	1,515	3	6	41	56	
Delaware	-3	-25.8%	0	0	-3	-4	0	0	0	0	
District of Columbia	0	--	0	0	0	0	0	0	0	0	
Florida	668	-50.1%	664	1,332	0	0	0	0	4	7	
Georgia	601	-60.1%	588	1,492	0	0	0	0	13	NM	
Maryland	64	-86.6%	0	0	64	471	0	0	0	7	
North Carolina	939	-54.7%	919	2,030	6	23	3	6	11	12	
South Carolina	594	-28.7%	593	833	0	0	0	0	0	0	
Virginia	109	-51.2%	97	178	-1	29	0	1	13	16	
West Virginia	3,302	-21.9%	2,815	3,230	488	997	0	0	0	0	
East South Central	5,942	-24.5%	5,622	7,547	285	287	0	0	35	41	
Alabama	1,366	-25.2%	1,366	1,824	0	0	0	0	0	3	
Kentucky	3,244	-23.7%	3,244	4,253	0	0	0	0	0	0	
Mississippi	423	2.1%	138	127	285	287	0	0	0	0	
Tennessee	910	-34.1%	875	1,343	0	0	0	0	35	38	
West South Central	6,619	-37.6%	3,288	5,703	3,317	4,888	0	0	13	12	
Arkansas	1,388	-22.9%	1,109	1,458	276	341	0	0	3	1	
Louisiana	205	-66.1%	145	250	61	355	0	0	0	0	
Oklahoma	27	-97.0%	16	880	0	0	0	0	11	10	
Texas	4,999	-31.6%	2,019	3,115	2,980	4,191	0	0	0	0	
Mountain	8,257	-25.8%	7,220	9,504	1,005	1,596	0	0	33	31	
Arizona	612	-66.5%	612	1,827	0	0	0	0	0	0	
Colorado	1,645	-22.4%	1,645	2,119	0	0	0	0	0	1	
Idaho	NM	NM	NM	0	0	0	0	0	NM	NM	
Montana	882	-39.0%	26	27	855	1,418	0	0	NM	NM	
Nevada	95	-30.7%	16	56	79	81	0	0	0	0	
New Mexico	731	6.7%	731	685	0	0	0	0	0	0	
Utah	1,540	-19.2%	1,522	1,867	19	39	0	0	0	0	
Wyoming	2,750	-8.6%	2,667	2,923	52	58	0	0	31	28	
Pacific Contiguous	388	-52.6%	134	149	227	643	0	0	27	28	
California	23	-8.8%	0	0	0	0	0	0	23	25	
Oregon	134	-9.9%	134	149	0	0	0	0	0	0	
Washington	231	-64.1%	0	0	227	643	0	0	4	2	
Pacific Noncontiguous	176	-0.1%	43	47	124	120	NM	8	0	0	
Alaska	66	-3.3%	43	47	NM	NM	NM	8	0	0	
Hawaii	109	2.0%	0	0	109	107	0	0	0	0	
U.S. Total	50,586	-35.6%	38,276	56,546	11,806	21,413	21	32	483	525	

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 March 2020 and 2019 (Thousand Megawatthours)**

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
			Electric Utilities	Independent Power Producers							
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD						
New England	65	264	-75.4%	49	171	10	86	0	0	NM	8
Connecticut	-7	65	-110.9%	0	0	-7	65	0	0	0	0
Maine	23	28	-18.8%	0	0	17	20	0	0	NM	8
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	49	171	-71.2%	49	171	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	6,542	12,469	-47.5%	0	0	6,526	12,435	0	0	16	33
New Jersey	236	288	-18.1%	0	0	236	288	0	0	0	0
New York	144	333	-56.9%	0	0	144	333	0	0	0	0
Pennsylvania	6,163	11,848	-48.0%	0	0	6,146	11,814	0	0	16	33
East North Central	40,760	64,189	-36.5%	23,356	36,574	16,896	27,047	11	19	497	549
Illinois	6,916	14,889	-53.5%	503	1,102	6,007	13,363	5	10	402	414
Indiana	10,436	17,084	-38.9%	9,241	16,044	1,188	1,032	7	8	0	0
Michigan	6,679	10,602	-37.0%	6,567	10,517	101	68	0	0	NM	18
Ohio	10,759	14,135	-23.9%	1,159	1,549	9,600	12,585	0	0	0	1
Wisconsin	5,969	7,478	-20.2%	5,886	7,363	0	0	0	0	83	116
West North Central	34,771	45,670	-23.9%	34,232	45,103	0	0	19	26	520	541
Iowa	3,162	6,896	-54.2%	2,790	6,531	0	0	16	20	355	345
Kansas	3,370	4,878	-30.9%	3,370	4,878	0	0	0	0	0	0
Minnesota	3,258	5,046	-35.4%	3,221	4,950	0	0	0	1	37	95
Missouri	12,758	15,629	-18.4%	12,755	15,623	0	0	3	5	0	0
Nebraska	5,047	5,486	-8.0%	4,944	5,409	0	0	0	0	103	77
North Dakota	6,660	6,929	-3.9%	6,636	6,906	0	0	0	0	24	24
South Dakota	517	805	-35.8%	517	805	0	0	0	0	0	0
South Atlantic	21,770	34,805	-37.5%	19,249	30,161	2,375	4,448	13	22	132	174
Delaware	-9	35	-125.3%	0	0	-9	35	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,520	4,323	-41.7%	2,509	4,304	0	0	0	0	11	19
Georgia	1,512	4,647	-67.5%	1,467	4,596	0	0	0	0	44	52
Maryland	313	1,410	-77.8%	0	0	313	1,390	0	0	0	20
North Carolina	3,100	5,120	-39.5%	3,028	4,989	23	78	12	19	37	34
South Carolina	2,433	3,427	-29.0%	2,432	3,423	0	0	0	0	2	4
Virginia	554	830	-33.2%	505	682	8	99	1	4	39	46
West Virginia	11,347	15,013	-24.4%	9,307	12,167	2,040	2,847	0	0	0	0
East South Central	19,521	25,690	-24.0%	18,686	24,975	715	586	0	0	120	130
Alabama	4,722	7,078	-33.3%	4,721	7,064	0	0	0	0	NM	15
Kentucky	11,126	14,104	-21.1%	11,126	14,104	0	0	0	0	0	0
Mississippi	962	861	11.7%	247	276	715	586	0	0	0	0
Tennessee	2,711	3,647	-25.6%	2,593	3,532	0	0	0	0	118	115
West South Central	19,033	34,206	-44.4%	8,205	19,114	10,784	15,034	0	0	44	58
Arkansas	3,123	6,237	-49.9%	2,261	5,216	851	1,007	0	0	10	14
Louisiana	507	2,023	-75.0%	446	1,215	61	808	0	0	0	0
Oklahoma	292	2,814	-89.6%	242	2,714	16	57	0	0	34	43
Texas	15,112	23,131	-34.7%	5,256	9,968	9,856	13,163	0	0	0	0
Mountain	27,069	38,928	-30.5%	23,801	34,095	3,167	4,735	0	0	101	97
Arizona	2,473	6,586	-62.5%	2,473	6,586	0	0	0	0	0	0
Colorado	5,374	6,814	-21.1%	5,374	6,810	0	0	0	0	0	4
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	2,773	4,229	-34.4%	53	78	2,716	4,149	0	0	NM	NM
Nevada	355	904	-60.7%	84	600	272	303	0	0	0	0
New Mexico	3,058	3,490	-12.4%	3,058	3,490	0	0	0	0	0	0
Utah	5,137	6,925	-25.8%	5,118	6,815	19	110	0	0	0	0
Wyoming	7,894	9,974	-20.9%	7,641	9,715	161	173	0	0	92	86
Pacific Contiguous	1,830	2,911	-37.1%	628	805	1,120	2,025	0	0	82	82
California	72	75	-3.7%	0	0	0	0	0	0	72	75
Oregon	628	805	-21.9%	628	805	0	0	0	0	0	0
Washington	1,130	2,032	-44.4%	0	0	1,120	2,025	0	0	10	7
Pacific Noncontiguous	467	498	-6.2%	115	133	324	338	28	27	0	0
Alaska	189	202	-6.2%	115	133	46	42	28	27	0	0
Hawaii	277	296	-6.3%	0	0	277	296	0	0	0	0
U.S. Total	171,828	259,629	-33.8%	128,322	191,131	41,916	66,733	71	94	1,518	1,671

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 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, March 2020 and 2019 (Thousands 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							
March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020						
New England	7	16	-57.4%	NM	NM	3	8	2	3	NM	2
Connecticut	NM	6	NM	NM	NM	NM	NM	NM	0	2	
Maine	1	3	-44.2%	0	0	1	2	0	0	NM	NM
Massachusetts	NM	3	NM	NM	NM	NM	NM	NM	0	0	
New Hampshire	1	2	-44.5%	NM	1	NM	NM	1	2	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	27	31	-13.7%	NM	NM	22	22	NM	NM	1	3
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	15	15	5.8%	NM	NM	11	6	NM	NM	0	3
Pennsylvania	NM	13	NM	0	0	NM	12	0	0	NM	1
East North Central	26	42	-39.6%	17	26	8	15	NM	0	0	1
Illinois	2	3	-48.3%	0	NM	1	3	NM	NM	0	0
Indiana	10	15	-34.0%	10	14	0	0	0	0	0	0
Michigan	7	8	-11.2%	7	7	0	0	NM	0	NM	NM
Ohio	8	14	-45.1%	1	NM	7	13	0	0	0	0
Wisconsin	NM	NM	NM	NM	NM	0	0	NM	0	0	0
West North Central	16	34	-54.3%	15	34	NM	NM	0	0	0	0
Iowa	-2	12	-113.3%	-2	11	NM	NM	0	0	0	0
Kansas	8	3	136.3%	8	3	0	0	0	0	0	0
Minnesota	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Missouri	3	10	-73.1%	3	10	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	3	6	-44.6%	3	6	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	41	109	-62.9%	26	83	6	15	3	2	5	9
Delaware	NM	NM	NM	0	0	NM	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	11	29	-62.8%	10	28	NM	NM	0	0	NM	NM
Georgia	0	13	-101.1%	-3	7	NM	NM	NM	0	NM	5
Maryland	1	7	-83.1%	NM	0	NM	7	0	0	0	0
North Carolina	8	21	-60.9%	7	19	NM	NM	NM	NM	NM	NM
South Carolina	5	11	-57.4%	4	10	0	0	0	0	1	1
Virginia	8	18	-56.4%	NM	11	2	5	3	2	0	NM
West Virginia	7	9	-25.7%	7	9	0	0	0	0	0	0
East South Central	14	20	-27.2%	13	19	0	0	0	0	1	1
Alabama	1	1	-6.6%	0	1	NM	NM	0	0	NM	NM
Kentucky	3	6	-46.5%	3	6	0	0	0	0	0	0
Mississippi	0	2	-84.0%	0	2	0	0	0	0	0	0
Tennessee	10	10	-4.7%	9	10	0	0	0	0	0	0
West South Central	5	10	-53.0%	3	6	2	3	0	0	0	1
Arkansas	2	5	-54.8%	2	3	0	2	0	0	0	0
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	NM	1	NM	NM	1	0	0	0	0	0	0
Texas	3	5	-41.8%	1	3	2	1	0	0	0	0
Mountain	13	17	-19.6%	12	16	1	1	NM	NM	0	0
Arizona	3	3	-4.7%	3	3	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	0
Idaho	0	0	76.4%	0	0	0	0	0	0	0	0
Montana	1	2	-37.9%	NM	1	1	0	0	0	0	0
Nevada	1	1	15.5%	1	1	0	0	0	0	0	0
New Mexico	2	4	-36.9%	2	4	0	0	0	0	0	0
Utah	2	3	-32.9%	2	3	0	0	0	0	0	0
Wyoming	3	3	-4.9%	3	3	0	0	0	0	0	0
Pacific Contiguous	5	5	2.9%	4	3	1	1	0	0	NM	NM
California	4	3	8.1%	3	3	1	0	0	0	NM	1
Oregon	1	0	74.6%	1	0	0	0	0	0	0	0
Washington	NM	2	NM	NM	NM	1	1	0	0	NM	NM
Pacific Noncontiguous	551	539	2.2%	398	403	131	115	0	1	21	20
Alaska	76	65	16.4%	71	60	0	0	NM	1	5	4
Hawaii	475	474	0.2%	326	343	131	115	0	1	17	16
U.S. Total	704	823	-14.5%	492	597	175	180	7	8	30	38

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 1.5.B. Utility Scale Facility Net Generation from Petroleum Liquids****by State, by Sector, Year-to-Date through March 2020 and 2019 (Thousand Megawatthours)**

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities				Generation at Utility Scale Facilities	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	38	100	-62.6%	4	8	24	73	7	13	2	6
Connecticut	11	30	-64.6%	1	1	10	24	NM	3	0	2
Maine	7	8	-16.2%	0	0	5	4	0	1	2	4
Massachusetts	11	46	-76.3%	NM	NM	7	38	NM	NM	0	1
New Hampshire	6	10	-42.6%	1	3	NM	NM	5	6	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	1	2	NM	NM
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	80	451	-82.3%	13	151	62	284	NM	NM	3	12
New Jersey	18	45	-60.1%	0	1	18	42	0	0	0	1
New York	48	342	-85.8%	13	150	32	180	NM	NM	2	10
Pennsylvania	13	64	-79.0%	0	0	12	62	1	1	1	2
East North Central	87	125	-30.6%	55	67	31	53	0	1	1	5
Illinois	7	10	-30.4%	1	NM	5	8	0	NM	0	0
Indiana	30	35	-15.5%	29	32	0	0	0	0	0	3
Michigan	14	23	-39.7%	14	22	0	0	NM	1	NM	0
Ohio	28	42	-33.0%	3	NM	24	37	0	0	0	2
Wisconsin	NM	16	NM	NM	NM	1	7	NM	0	0	0
West North Central	64	97	-33.7%	62	92	NM	NM	0	1	0	0
Iowa	3	21	-83.8%	3	20	1	1	0	0	0	0
Kansas	24	13	82.8%	24	13	0	0	0	0	0	0
Minnesota	NM	13	NM	NM	9	NM	NM	0	1	0	0
Missouri	14	27	-48.5%	14	27	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	0	0	0	0	0	0	0
North Dakota	10	16	-39.9%	10	16	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	0	0	NM	NM	0	0	0
South Atlantic	193	354	-45.6%	138	238	28	84	8	6	19	25
Delaware	NM	19	NM	0	0	NM	19	0	0	0	0
District of Columbia	0	0	—	0	0	0	0	0	0	0	0
Florida	41	47	-12.4%	37	42	0	NM	0	0	4	5
Georgia	2	35	-94.4%	-9	17	NM	4	0	0	10	14
Maryland	13	31	-59.0%	0	0	13	30	0	0	0	1
North Carolina	33	78	-57.7%	29	73	1	NM	NM	NM	3	NM
South Carolina	17	29	-41.6%	16	26	0	1	0	0	1	2
Virginia	32	88	-63.6%	16	55	6	26	8	6	2	1
West Virginia	48	26	84.8%	48	26	0	0	0	0	0	0
East South Central	51	74	-31.5%	49	70	0	1	0	0	2	4
Alabama	1	6	-73.6%	0	4	NM	1	0	0	NM	1
Kentucky	13	23	-41.6%	13	23	0	0	0	0	0	0
Mississippi	2	4	-50.3%	1	3	0	0	0	0	1	1
Tennessee	34	42	-18.6%	33	40	0	0	0	0	1	2
West South Central	23	31	-24.7%	17	20	6	8	0	0	1	2
Arkansas	8	13	-32.4%	8	7	1	5	0	0	0	1
Louisiana	1	NM	NM	1	NM	0	0	0	0	0	0
Oklahoma	2	5	-61.0%	2	5	0	0	0	0	0	0
Texas	12	12	-1.5%	6	7	6	3	0	0	0	1
Mountain	41	51	-20.5%	39	48	2	3	NM	NM	0	0
Arizona	9	15	-40.6%	9	15	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	0
Idaho	0	0	76.4%	0	0	0	0	0	0	0	0
Montana	NM	4	NM	NM	NM	1	3	0	0	0	0
Nevada	2	3	-49.1%	1	2	0	1	0	0	0	0
New Mexico	10	10	3.1%	10	10	0	0	0	0	0	0
Utah	7	8	-6.1%	7	8	0	0	0	0	0	0
Wyoming	10	9	17.0%	10	9	0	0	0	0	0	0
Pacific Contiguous	18	16	12.0%	11	9	4	3	0	0	NM	4
California	11	11	0.8%	9	8	2	1	0	0	1	2
Oregon	1	1	-9.8%	1	1	0	0	0	0	0	0
Washington	6	4	46.2%	2	NM	2	2	0	0	NM	NM
Pacific Noncontiguous	1,793	1,688	6.2%	1,450	1,309	273	312	4	4	66	63
Alaska	265	201	31.5%	247	187	0	0	2	2	16	12
Hawaii	1,528	1,487	2.8%	1,203	1,122	273	312	2	1	50	51
U.S. Total	2,387	2,988	-20.1%	1,837	2,013	431	823	21	29	97	122

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.A. Utility Scale Facility Net Generation from Petroleum Coke  
by State, by Sector, March 2020 and 2019 (Thousands 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							
March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020						
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	5	11	-52.4%	0	0	0	0	0	0	5	11
New Jersey	5	5	9.0%	0	0	0	0	0	0	5	5
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	173	182	-4.8%	64	85	98	87	0	0	11	10
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	66	88	-24.7%	55	78	0	0	0	0	11	10
Ohio	98	87	12.7%	0	0	98	87	0	0	0	0
Wisconsin	9	7	28.6%	9	7	0	0	0	0	0	0
West North Central	5	1	340.8%	0	0	0	0	0	1	5	0
Iowa	5	1	340.8%	0	0	0	0	0	1	5	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	98	96	1.8%	80	82	0	0	0	0	17	14
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	80	82	-1.9%	80	82	0	0	0	0	0	0
Georgia	17	14	23.3%	0	0	0	0	0	0	17	14
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	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	385	306	25.9%	377	298	0	0	0	0	8	8
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	377	298	26.6%	377	298	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	8	8	1.0%	0	0	0	0	0	0	8	8
Mountain	43	44	-1.4%	0	0	43	44	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	43	44	-1.4%	0	0	43	44	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	708	639	10.9%	521	464	141	131	0	1	46	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.

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 March 2020 and 2019 (Thousand Megawatthours)**

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 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	37	-54.5%	0	0	0	0	0	0	17	37
New Jersey	17	16	6.6%	0	0	0	0	0	0	17	16
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	21	-100.0%	0	0	0	0	0	0	0	21
East North Central	431	610	-29.3%	200	287	195	296	0	0	36	27
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	208	287	-27.7%	171	260	0	0	0	0	36	27
Ohio	195	296	-34.1%	0	0	195	296	0	0	0	0
Wisconsin	28	26	6.6%	28	26	0	0	0	0	0	0
West North Central	20	3	508.5%	0	0	0	0	2	3	17	0
Iowa	20	3	508.5%	0	0	0	0	2	3	17	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	465	402	15.7%	415	351	0	0	0	0	NM	51
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	415	351	18.3%	415	351	0	0	0	0	0	0
Georgia	NM	51	NM	0	0	0	0	0	0	NM	51
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	1,047	-24.6%	765	1,025	0	0	0	0	24	23
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	765	1,030	-25.7%	765	1,025	0	0	0	0	0	6
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	24	17	40.5%	0	0	0	0	0	0	24	17
Mountain	125	126	-0.6%	0	0	125	126	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	125	126	-0.6%	0	0	125	126	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	1,847	2,225	-17.0%	1,380	1,662	321	422	2	3	144	137

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, March 2020 and 2019 (Thousands 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							
March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020						
New England	3,128	3,760	-16.8%	NM	NM	2,901	3,553	92	86	131	115
Connecticut	1,712	1,493	14.7%	3	3	1,615	1,411	34	33	59	45
Maine	67	131	-48.7%	0	0	31	97	3	2	34	32
Massachusetts	622	1,346	-53.8%	NM	NM	547	1,273	51	47	22	23
New Hampshire	179	215	-16.8%	0	0	176	211	1	1	3	3
Rhode Island	548	575	-4.7%	0	0	532	561	3	3	13	NM
Vermont	0	0	-59.7%	0	0	0	0	0	0	0	0
Middle Atlantic	15,373	13,627	12.8%	630	658	14,443	12,660	85	91	215	218
New Jersey	2,257	2,839	-20.5%	NM	NM	2,205	2,780	8	11	37	37
New York	3,785	3,317	14.1%	622	647	3,039	2,544	69	68	55	58
Pennsylvania	9,331	7,471	24.9%	0	0	9,199	7,336	9	12	123	123
East North Central	13,514	12,205	10.7%	4,616	3,988	8,430	7,778	119	119	349	319
Illinois	1,554	1,168	33.0%	275	36	1,190	1,067	30	30	59	35
Indiana	2,592	2,569	0.9%	994	1,052	1,443	1,349	15	14	139	155
Michigan	2,840	2,495	13.8%	920	738	1,811	1,647	51	55	58	55
Ohio	4,519	4,372	3.4%	640	724	3,841	3,614	16	15	21	19
Wisconsin	2,009	1,600	25.6%	1,787	1,438	144	101	6	6	72	55
West North Central	2,065	2,115	-2.4%	1,558	1,762	381	254	26	26	99	73
Iowa	319	568	-43.9%	258	514	0	NM	7	6	54	48
Kansas	309	134	130.6%	281	124	0	0	0	0	27	9
Minnesota	637	723	-11.9%	508	651	109	50	7	10	13	12
Missouri	505	521	-3.2%	218	305	272	204	11	9	4	3
Nebraska	67	48	40.7%	67	47	0	0	0	0	0	0
North Dakota	114	74	54.0%	112	73	0	0	0	0	2	1
South Dakota	115	47	143.9%	115	47	0	0	0	0	0	0
South Atlantic	31,837	28,102	13.3%	26,542	23,206	4,760	4,359	82	101	453	436
Delaware	245	405	-39.6%	0	0	146	308	0	0	99	97
District of Columbia	2	4	-41.5%	0	0	0	0	2	4	0	0
Florida	15,240	12,920	18.0%	14,434	12,476	666	316	2	2	138	126
Georgia	3,897	3,534	10.3%	2,854	2,641	976	839	0	0	68	54
Maryland	1,276	1,593	-19.9%	294	551	911	948	67	86	4	9
North Carolina	3,624	3,385	7.0%	2,910	2,659	688	703	NM	NM	16	15
South Carolina	1,976	1,496	32.1%	1,921	1,429	38	56	0	0	16	10
Virginia	5,420	4,670	16.1%	4,127	3,434	1,219	1,170	2	2	71	63
West Virginia	158	96	63.6%	2	15	116	19	0	0	40	63
East South Central	9,848	10,909	-9.7%	6,740	7,037	2,849	3,618	20	17	239	237
Alabama	4,459	4,757	-6.3%	1,512	1,614	2,841	3,033	0	0	107	111
Kentucky	527	1,281	-58.9%	499	1,223	7	37	0	0	21	21
Mississippi	3,728	3,391	9.9%	3,690	2,805	0	546	0	0	38	40
Tennessee	1,134	1,479	-23.4%	1,040	1,395	1	2	20	17	73	65
West South Central	28,842	25,470	13.2%	10,902	8,239	12,143	11,667	66	82	5,731	5,482
Arkansas	1,316	1,313	0.2%	1,180	1,163	114	115	NM	NM	19	32
Louisiana	5,956	4,970	19.8%	3,740	2,477	139	258	16	13	2,061	2,222
Oklahoma	3,457	2,733	26.5%	2,307	1,734	1,109	960	0	0	41	39
Texas	18,113	16,455	10.1%	3,675	2,865	10,780	10,334	47	66	3,611	3,189
Mountain	8,480	7,889	7.5%	6,926	6,134	1,377	1,586	33	36	144	132
Arizona	2,708	2,915	-7.1%	2,162	2,179	534	725	11	11	0	0
Colorado	1,616	1,231	31.3%	1,352	965	261	264	0	0	2	2
Idaho	345	105	227.3%	171	37	158	55	3	3	12	10
Montana	35	33	5.9%	NM	19	8	14	0	0	NM	NM
Nevada	2,088	1,810	15.4%	1,917	1,630	135	141	4	6	32	33
New Mexico	985	815	20.9%	694	426	275	380	7	8	10	0
Utah	583	902	-35.3%	552	852	6	6	7	8	18	36
Wyoming	121	78	54.6%	51	26	0	0	0	0	69	51
Pacific Contiguous	10,226	8,643	18.3%	4,359	3,418	4,887	4,197	134	143	847	885
California	6,775	6,012	12.7%	2,292	2,146	3,530	2,857	127	138	826	871
Oregon	2,112	1,826	15.7%	1,041	827	1,056	989	4	3	10	7
Washington	1,339	804	66.4%	1,026	444	300	350	2	2	11	8
Pacific Noncontiguous	257	227	13.2%	250	220	0	0	0	0	6	6
Alaska	257	227	13.2%	250	220	0	0	0	0	6	6
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	123,569	112,945	9.4%	62,528	54,667	52,171	49,673	657	702	8,213	7,903

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.B. Utility Scale Facility Net Generation from Natural Gas****by State, by Sector, Year-to-Date through March 2020 and 2019 (Thousand Megawatthours)**

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities				Generation at Utility Scale Facilities	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	11,744	11,248	4.4%	NM	NM	11,042	10,617	283	270	404	345
Connecticut	5,628	4,637	21.4%	6	9	5,338	4,380	106	101	179	147
Maine	270	418	-35.5%	0	0	152	327	8	7	110	84
Massachusetts	3,407	4,268	-20.2%	NM	NM	3,173	4,044	158	149	67	68
New Hampshire	670	472	42.1%	0	0	661	461	2	3	8	7
Rhode Island	1,767	1,452	21.7%	0	0	1,719	1,405	9	8	40	39
Vermont	1	1	-20.9%	0	0	0	0	0	0	0	0
Middle Atlantic	48,135	41,853	15.0%	2,203	2,160	44,988	38,745	278	283	666	665
New Jersey	7,087	8,786	-19.3%	NM	NM	6,916	8,634	32	28	115	102
New York	11,942	10,671	11.9%	2,178	2,138	9,379	8,154	215	217	169	163
Pennsylvania	29,106	22,396	30.0%	0	1	28,693	21,957	31	38	382	400
East North Central	42,691	36,135	18.1%	14,747	11,585	26,534	23,199	373	353	1,037	998
Illinois	4,910	3,485	40.9%	844	97	3,803	3,157	96	86	167	145
Indiana	8,292	7,691	7.8%	3,264	3,015	4,543	4,193	46	39	439	444
Michigan	9,557	7,533	26.9%	3,270	2,077	5,959	5,121	163	161	165	173
Ohio	13,902	12,734	9.2%	1,872	2,071	11,919	10,545	50	52	61	66
Wisconsin	6,030	4,692	28.5%	5,497	4,325	309	183	19	15	205	169
West North Central	7,425	6,132	21.1%	6,011	5,131	1,079	694	80	80	255	227
Iowa	1,695	1,647	2.9%	1,530	1,477	0	NM	24	23	141	146
Kansas	687	455	51.1%	624	423	0	0	0	0	62	32
Minnesota	2,392	2,129	12.3%	2,034	1,898	297	162	25	32	36	37
Missouri	1,711	1,385	23.6%	888	820	782	530	29	25	12	10
Nebraska	228	112	103.2%	227	111	0	0	1	1	0	0
North Dakota	349	229	52.3%	345	227	0	0	0	0	4	2
South Dakota	363	176	106.3%	363	176	0	0	0	0	0	0
South Atlantic	94,455	84,556	11.7%	78,585	70,859	14,231	12,217	281	282	1,358	1,198
Delaware	828	893	-7.3%	0	0	541	638	0	0	287	255
District of Columbia	13	9	43.6%	0	0	0	0	13	9	0	0
Florida	42,266	37,259	13.4%	40,105	35,837	1,744	1,034	6	5	411	382
Georgia	13,477	11,894	13.3%	10,488	9,330	2,801	2,416	0	0	188	148
Maryland	3,601	3,931	-8.4%	906	1,386	2,458	2,283	225	240	11	23
North Carolina	11,551	10,531	9.7%	9,447	8,455	2,027	2,012	30	23	46	40
South Carolina	5,904	4,923	19.9%	5,745	4,736	110	155	0	0	49	32
Virginia	16,457	14,891	10.5%	11,891	11,076	4,349	3,625	7	4	210	186
West Virginia	359	225	60.0%	3	40	200	53	0	0	156	132
East South Central	32,362	30,277	6.9%	22,658	20,138	8,921	9,381	61	55	723	703
Alabama	12,674	12,447	1.8%	4,046	4,314	8,289	7,807	0	0	339	327
Kentucky	2,824	3,387	-16.6%	2,737	3,218	23	107	0	0	63	62
Mississippi	12,722	10,373	22.6%	11,998	8,793	604	1,462	0	0	119	118
Tennessee	4,143	4,069	1.8%	3,876	3,814	5	5	61	55	201	196
West South Central	88,632	79,800	11.1%	31,059	25,626	39,301	37,015	220	241	18,052	16,917
Arkansas	4,037	4,159	-2.9%	3,629	3,723	338	338	NM	NM	61	89
Louisiana	17,372	15,123	14.9%	10,093	7,447	651	859	47	41	6,581	6,776
Oklahoma	11,235	9,024	24.5%	6,936	5,627	4,181	3,295	0	0	118	102
Texas	55,987	51,493	8.7%	10,401	8,829	34,130	32,523	164	191	11,292	9,950
Mountain	27,306	23,973	13.9%	21,679	19,163	5,109	4,312	106	109	413	389
Arizona	9,626	8,377	14.9%	7,050	6,546	2,543	1,796	32	35	0	0
Colorado	4,680	3,960	18.2%	4,032	3,316	637	638	5	1	7	5
Idaho	1,206	659	83.0%	642	450	515	166	10	9	39	33
Montana	97	148	-34.7%	80	80	15	67	0	0	2	2
Nevada	6,133	5,481	11.9%	5,544	4,882	505	507	15	16	70	76
New Mexico	2,948	2,605	13.1%	2,040	1,461	875	1,119	22	25	10	0
Utah	2,273	2,501	-9.1%	2,153	2,352	18	18	21	23	80	109
Wyoming	345	242	42.3%	138	77	1	1	0	0	206	165
Pacific Contiguous	28,996	28,593	1.4%	12,380	11,083	13,669	14,479	404	419	2,543	2,612
California	19,473	20,395	-4.5%	6,650	6,979	9,954	10,445	389	404	2,479	2,568
Oregon	5,912	5,558	6.4%	3,075	2,497	2,794	3,029	12	10	31	21
Washington	3,611	2,640	36.8%	2,655	1,607	920	1,005	3	5	33	23
Pacific Noncontiguous	827	692	19.4%	813	673	0	0	0	0	14	19
Alaska	827	692	19.4%	813	673	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	382,573	343,257	11.5%	190,149	166,435	164,874	150,659	2,086	2,091	25,464	24,072

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.

Tot

**Table 1.7.C. Utility Scale Facility Net Generation from Natural Gas by Technology: Total (All Sectors), 2010–March 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		
<b>Annual Factors</b>							
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	901	1,468,932	
2019	1,330,364	135,654	109,602	6,043	152	1,581,815	
<b>Year 2018</b>							
January	93,426	10,362	6,045	382	61	110,277	
February	86,046	8,021	4,015	352	63	98,498	
March	90,850	9,834	5,356	395	73	106,509	
April	82,423	9,766	5,761	348	62	98,360	
May	94,192	10,839	9,763	421	58	115,274	
June	108,641	11,513	10,170	424	65	130,813	
July	133,649	15,618	14,735	630	92	164,725	
August	133,733	14,426	12,809	587	100	161,654	
Sept	118,249	12,775	10,195	465	84	141,768	
October	102,793	11,156	8,654	428	91	123,122	
November	91,899	9,822	5,963	389	76	108,150	
December	96,044	8,733	4,551	381	74	109,784	
<b>Year 2019</b>							
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	
<b>Year 2020</b>							
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	

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, March 2020 and 2019 (Thousands 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	
Census Division and State	March 2020	March 2019	Percentage Change	March 2020	March 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	88	69	27.2%	0	0	18	0	0	0	70	69
New Jersey	20	19	2.9%	0	0	0	0	0	0	20	19
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	68	50	36.6%	0	0	18	0	0	0	50	50
East North Central	411	500	-17.9%	19	31	121	192	0	0	271	277
Illinois	37	37	1.1%	0	0	0	0	0	0	37	37
Indiana	221	223	-1.1%	0	0	0	0	0	0	221	223
Michigan	85	167	-49.2%	19	31	66	136	0	0	0	0
Ohio	68	74	-7.5%	0	0	55	56	0	0	13	17
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	4	4	-13.6%	0	0	0	0	0	0	4	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	4	4	-13.6%	0	0	0	0	0	0	4	4
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	16	18	-11.1%	0	0	0	0	0	0	16	18
Delaware	13	14	-3.7%	0	0	0	0	0	0	13	14
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-52.4%	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	3	5	-31.6%	0	0	0	0	0	0	3	5
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	34.1%	0	0	0	0	0	0	1	1
West South Central	386	498	-22.6%	0	0	127	157	0	0	258	341
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	169	254	-33.3%	0	0	0	0	0	0	169	254
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	216	244	-11.5%	0	0	127	157	0	0	89	87
Mountain	35	24	44.1%	0	0	1	0	0	0	34	24
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	0	223.5%	0	0	1	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	1	-99.2%	0	0	0	0	0	0	0	1
Wyoming	34	23	51.0%	0	0	0	0	0	0	34	23
Pacific Contiguous	167	134	24.9%	0	0	26	0	0	0	140	134
California	140	134	5.1%	0	0	0	0	0	0	140	134
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	26	0	--	0	0	26	0	0	0	0	0
Pacific Noncontiguous	1	1	37.2%	0	0	0	0	0	0	1	1
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	1	1	37.2%	0	0	0	0	0	0	1	1
U.S. Total	1,109	1,251	-11.3%	19	31	294	350	0	0	796	870

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 March 2020 and 2019 (Thousand Megawatthours)**

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 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	240	203	18.3%	0	0	26	0	0	0	214	203
New Jersey	58	57	2.1%	0	0	0	0	0	0	58	57
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	182	146	24.7%	0	0	26	0	0	0	156	146
East North Central	1,316	1,374	-4.2%	27	65	525	555	0	0	765	754
Illinois	75	84	-9.9%	0	0	0	0	0	0	75	84
Indiana	656	624	5.1%	0	0	0	0	0	0	656	624
Michigan	381	457	-16.7%	27	65	354	392	0	0	0	0
Ohio	204	210	-2.6%	0	0	171	164	0	0	34	46
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	12	13	-8.0%	0	0	0	0	0	0	12	13
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	12	13	-8.0%	0	0	0	0	0	0	12	13
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	54	51	5.5%	0	0	0	0	0	0	54	51
Delaware	41	42	-2.1%	0	0	0	0	0	0	41	42
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-28.9%	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	13	9	39.6%	0	0	0	0	0	0	13	9
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	3	3	18.5%	0	0	0	0	0	0	3	3
West South Central	1,366	1,376	-0.7%	0	0	429	467	0	0	936	909
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	652	654	-0.4%	0	0	0	0	0	0	652	654
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	714	721	-1.0%	0	0	429	467	0	0	285	255
Mountain	104	83	25.3%	0	0	4	2	0	0	100	81
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	4	2	64.3%	0	0	4	2	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	4	-99.6%	0	0	0	0	0	0	0	4
Wyoming	100	77	29.8%	0	0	0	0	0	0	100	77
Pacific Contiguous	455	371	22.6%	0	0	87	49	0	0	368	322
California	368	322	14.3%	0	0	0	0	0	0	368	322
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	87	49	77.8%	0	0	87	49	0	0	0	0
Pacific Noncontiguous	3	2	53.8%	0	0	0	0	0	0	3	2
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	3	2	53.8%	0	0	0	0	0	0	3	2
U.S. Total	3,554	3,476	2.2%	27	65	1,070	1,073	0	0	2,456	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 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, March 2020 and 2019 (Thousands 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							
March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020						
New England	2,478	2,968	-16.5%	0	0	2,478	2,968	0	0	0	0
Connecticut	1,560	1,549	0.7%	0	0	1,560	1,549	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	492	-100.0%	0	0	0	492	0	0	0	0
New Hampshire	918	927	-1.0%	0	0	918	927	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	11,321	12,335	-8.2%	0	0	11,321	12,335	0	0	0	0
New Jersey	1,887	2,360	-20.0%	0	0	1,887	2,360	0	0	0	0
New York	3,128	2,796	11.9%	0	0	3,128	2,796	0	0	0	0
Pennsylvania	6,305	7,179	-12.2%	0	0	6,305	7,179	0	0	0	0
East North Central	12,557	12,251	2.5%	2,189	1,843	10,368	10,408	0	0	0	0
Illinois	8,127	8,187	-0.7%	0	0	8,127	8,187	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,796	2,451	14.0%	2,189	1,843	606	608	0	0	0	0
Ohio	1,013	858	18.1%	0	0	1,013	858	0	0	0	0
Wisconsin	622	755	-17.7%	0	0	622	755	0	0	0	0
West North Central	4,144	4,085	1.4%	3,691	3,632	453	453	0	0	0	0
Iowa	453	453	-0.1%	0	0	453	453	0	0	0	0
Kansas	911	912	0.0%	911	912	0	0	0	0	0	0
Minnesota	1,305	1,214	7.5%	1,305	1,214	0	0	0	0	0	0
Missouri	886	912	-2.9%	886	912	0	0	0	0	0	0
Nebraska	590	594	-0.7%	590	594	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	15,824	15,109	4.7%	14,765	14,128	1,059	981	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	2,234	2,336	-4.4%	2,234	2,336	0	0	0	0	0	0
Georgia	1,968	1,853	6.3%	1,968	1,853	0	0	0	0	0	0
Maryland	1,059	981	7.9%	0	0	1,059	981	0	0	0	0
North Carolina	2,840	2,874	-1.2%	2,840	2,874	0	0	0	0	0	0
South Carolina	5,000	4,999	0.0%	5,000	4,999	0	0	0	0	0	0
Virginia	2,723	2,067	31.7%	2,723	2,067	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,617	7,485	-11.6%	6,617	7,485	0	0	0	0	0	0
Alabama	3,252	2,974	9.3%	3,252	2,974	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	-5	1,030	-100.4%	-5	1,030	0	0	0	0	0	0
Tennessee	3,369	3,481	-3.2%	3,369	3,481	0	0	0	0	0	0
West South Central	5,736	5,886	-2.5%	2,550	2,165	3,187	3,721	0	0	0	0
Arkansas	943	1,365	-30.9%	943	1,365	0	0	0	0	0	0
Louisiana	1,607	800	100.9%	1,607	800	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,187	3,721	-14.4%	0	0	3,187	3,721	0	0	0	0
Mountain	2,796	2,967	-5.7%	2,796	2,967	0	0	0	0	0	0
Arizona	2,796	2,967	-5.7%	2,796	2,967	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	2,525	1,994	26.6%	2,525	1,994	0	0	0	0	0	0
California	1,671	1,133	47.5%	1,671	1,133	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	854	861	-0.9%	854	861	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	63,997	65,080	-1.7%	35,133	34,213	28,864	30,867	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 March 2020 and 2019 (Thousand Megawatthours)**

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities				Generation at Utility Scale Facilities	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	7,325	8,604	-14.9%	0	0	7,325	8,604	0	0	0	0
Connecticut	4,611	4,513	2.2%	0	0	4,611	4,513	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	1,398	-100.0%	0	0	0	1,398	0	0	0	0
New Hampshire	2,714	2,693	0.8%	0	0	2,714	2,693	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	37,045	39,473	-6.2%	0	0	37,045	39,473	0	0	0	0
New Jersey	6,909	7,359	-6.1%	0	0	6,909	7,359	0	0	0	0
New York	10,691	10,440	2.4%	0	0	10,691	10,440	0	0	0	0
Pennsylvania	19,445	21,674	-10.3%	0	0	19,445	21,674	0	0	0	0
East North Central	39,826	38,816	2.6%	7,106	6,642	32,720	32,174	0	0	0	0
Illinois	24,587	24,622	-0.1%	0	0	24,587	24,622	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	8,887	8,290	7.2%	7,106	6,642	1,781	1,648	0	0	0	0
Ohio	3,995	3,457	15.6%	0	0	3,995	3,457	0	0	0	0
Wisconsin	2,357	2,446	-3.7%	0	0	2,357	2,446	0	0	0	0
West North Central	12,219	11,984	2.0%	10,885	10,671	1,334	1,313	0	0	0	0
Iowa	1,334	1,313	1.6%	0	0	1,334	1,313	0	0	0	0
Kansas	2,615	2,647	-1.2%	2,615	2,647	0	0	0	0	0	0
Minnesota	3,858	3,656	5.5%	3,858	3,656	0	0	0	0	0	0
Missouri	2,668	2,637	1.2%	2,668	2,637	0	0	0	0	0	0
Nebraska	1,744	1,730	0.8%	1,744	1,730	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	50,931	50,147	1.6%	47,583	46,856	3,348	3,290	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	7,288	7,630	-4.5%	7,288	7,630	0	0	0	0	0	0
Georgia	7,252	7,160	1.3%	7,252	7,160	0	0	0	0	0	0
Maryland	3,348	3,290	1.7%	0	0	3,348	3,290	0	0	0	0
North Carolina	10,404	10,280	1.2%	10,404	10,280	0	0	0	0	0	0
South Carolina	14,605	14,545	0.4%	14,605	14,545	0	0	0	0	0	0
Virginia	8,035	7,241	11.0%	8,035	7,241	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	22,491	23,225	-3.2%	22,491	23,225	0	0	0	0	0	0
Alabama	10,751	10,375	3.6%	10,751	10,375	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	1,779	2,883	-38.3%	1,779	2,883	0	0	0	0	0	0
Tennessee	9,962	9,966	0.0%	9,962	9,966	0	0	0	0	0	0
West South Central	18,765	16,324	15.0%	8,319	5,945	10,446	10,379	0	0	0	0
Arkansas	3,626	3,998	-9.3%	3,626	3,998	0	0	0	0	0	0
Louisiana	4,692	1,946	141.1%	4,692	1,946	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	10,446	10,379	0.6%	0	0	10,446	10,379	0	0	0	0
Mountain	8,264	8,631	-4.3%	8,264	8,631	0	0	0	0	0	0
Arizona	8,264	8,631	-4.3%	8,264	8,631	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	7,287	6,292	15.8%	7,287	6,292	0	0	0	0	0	0
California	4,847	3,801	27.5%	4,847	3,801	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2,440	2,491	-2.0%	2,440	2,491	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	204,152	203,495	0.3%	111,934	108,262	92,218	95,234	0	0	0	0

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

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

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

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

**Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, March 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		
Census Division and State	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	
New England	735	704	4.4%	107	102	617	591	1	1	NM	NM	
Connecticut	51	50	1.6%	4	4	47	46	0	0	0	0	
Maine	310	298	4.0%	0	0	299	288	0	0	NM	NM	
Massachusetts	108	104	3.5%	27	26	81	77	1	1	0	0	
New Hampshire	141	134	5.4%	34	33	107	101	0	0	0	0	
Rhode Island	0	0	6.1%	0	0	0	0	0	0	0	0	
Vermont	125	118	6.0%	43	39	83	79	0	0	0	0	
Middle Atlantic	3,067	3,002	2.2%	2,235	2,203	824	792	1	1	7	6	
New Jersey	2	5	-65.0%	0	0	2	5	0	0	0	0	
New York	2,663	2,608	2.1%	2,224	2,189	430	412	1	1	7	6	
Pennsylvania	403	389	3.5%	11	14	392	375	0	0	0	0	
East North Central	332	342	-2.9%	293	302	29	NM	0	0	10	NM	
Illinois	13	11	18.7%	NM	NM	8	7	0	0	0	0	
Indiana	24	22	5.6%	24	22	0	0	0	0	0	0	
Michigan	103	110	-6.0%	95	101	NM	NM	0	0	NM	NM	
Ohio	30	28	6.0%	26	25	NM	NM	0	0	0	0	
Wisconsin	162	170	-4.9%	144	151	NM	NM	0	0	9	NM	
West North Central	1,006	1,051	-4.3%	979	1,024	19	NM	0	0	8	8	
Iowa	61	NM	NM	60	NM	1	1	0	0	0	0	
Kansas	3	2	55.1%	0	0	3	2	0	0	0	0	
Minnesota	72	75	-4.2%	48	NM	NM	NM	0	0	8	8	
Missouri	97	99	-1.9%	97	99	0	0	0	0	0	0	
Nebraska	93	99	-5.4%	93	99	0	0	0	0	0	0	
North Dakota	227	236	-3.8%	227	236	0	0	0	0	0	0	
South Dakota	453	478	-5.3%	453	478	0	0	0	0	0	0	
South Atlantic	2,057	1,964	4.7%	1,649	1,553	342	347	1	2	66	62	
Delaware	0	0	--	0	0	0	0	0	0	0	0	
District of Columbia	0	0	--	0	0	0	0	0	0	0	0	
Florida	20	21	-7.3%	20	21	0	0	0	0	0	0	
Georgia	440	400	10.1%	436	396	NM	NM	0	0	NM	1	
Maryland	273	277	-1.4%	0	0	273	277	0	0	0	0	
North Carolina	656	620	5.8%	649	611	NM	7	1	2	NM	NM	
South Carolina	328	311	5.2%	321	303	NM	NM	0	0	0	0	
Virginia	167	168	-0.6%	162	162	NM	6	0	0	0	0	
West Virginia	173	166	4.2%	62	59	49	46	0	0	63	61	
East South Central	2,557	2,395	6.8%	2,556	2,394	NM	NM	0	0	0	0	
Alabama	1,225	1,144	7.2%	1,225	1,144	0	0	0	0	0	0	
Kentucky	345	305	13.1%	344	304	NM	NM	0	0	0	0	
Mississippi	0	0	--	0	0	0	0	0	0	0	0	
Tennessee	986	946	4.3%	986	946	0	0	0	0	0	0	
West South Central	781	733	6.6%	666	622	115	110	NM	NM	0	0	
Arkansas	328	302	8.7%	322	299	NM	NM	0	0	0	0	
Louisiana	107	103	3.9%	0	0	107	103	0	0	0	0	
Oklahoma	213	202	5.5%	213	202	0	0	0	0	0	0	
Texas	133	126	5.7%	130	121	3	4	NM	NM	0	0	
Mountain	2,387	2,569	-7.1%	2,300	2,477	86	91	0	0	0	0	
Arizona	504	486	3.8%	504	486	0	0	0	0	0	0	
Colorado	125	130	-3.6%	111	114	NM	NM	0	0	0	0	
Idaho	733	777	-5.6%	677	716	57	NM	0	0	0	0	
Montana	758	801	-5.4%	749	791	NM	NM	0	0	0	0	
Nevada	127	226	-43.6%	122	222	NM	NM	0	0	0	0	
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0	
Utah	63	68	-6.6%	62	66	1	1	0	0	0	0	
Wyoming	65	70	-7.4%	65	70	0	0	0	0	0	0	
Pacific Contiguous	9,225	12,662	-27.1%	9,112	12,368	113	291	NM	NM	0	0	
California	1,232	4,462	-72.4%	1,163	4,216	69	244	NM	NM	0	0	
Oregon	2,645	2,907	-9.0%	2,628	2,889	NM	NM	0	0	0	0	
Washington	5,348	5,293	1.0%	5,321	5,264	28	NM	0	0	0	0	
Pacific Noncontiguous	122	125	-2.7%	101	108	6	1	NM	NM	NM	NM	
Alaska	112	120	-6.8%	100	107	0	0	NM	NM	0	0	
Hawaii	10	5	91.1%	1	1	6	1	0	0	NM	NM	
U.S. Total	22,269	25,546	-12.8%	19,997	23,153	2,152	2,272	16	NM	104	101	

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

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

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

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

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

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

**Table 1.10.B. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power****by State, by Sector, Year-to-Date through March 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	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD						
New England	2,138	2,105	1.6%	309	308	1,797	1,764	2	2	31	31
Connecticut	149	150	-0.6%	11	14	138	136	0	0	0	0
Maine	904	880	2.7%	0	0	872	849	0	0	31	31
Massachusetts	315	310	1.6%	78	79	236	229	2	2	0	0
New Hampshire	408	409	-0.4%	100	96	308	313	0	0	0	0
Rhode Island	1	1	16.3%	0	0	1	1	0	0	0	0
Vermont	361	355	1.9%	120	119	241	235	0	0	0	0
Middle Atlantic	9,021	8,588	5.1%	6,595	6,217	2,405	2,351	3	2	19	18
New Jersey	5	11	-53.0%	0	0	5	11	0	0	0	0
New York	7,836	7,423	5.6%	6,560	6,176	1,255	1,227	3	2	19	18
Pennsylvania	1,180	1,154	2.3%	35	41	1,145	1,112	0	0	0	0
East North Central	1,121	1,041	7.7%	997	920	92	89	0	0	32	32
Illinois	37	33	13.4%	14	12	24	21	0	0	0	0
Indiana	68	69	-1.0%	68	69	0	0	0	0	0	0
Michigan	363	335	8.5%	337	307	NM	NM	0	0	NM	NM
Ohio	86	88	-2.0%	75	74	NM	NM	0	0	0	0
Wisconsin	566	516	9.6%	503	458	NM	NM	0	0	30	29
West North Central	3,523	3,225	9.2%	3,433	3,145	69	60	0	0	22	20
Iowa	226	198	14.3%	224	196	2	2	0	0	0	0
Kansas	10	7	51.6%	0	0	10	7	0	0	0	0
Minnesota	252	226	11.2%	173	155	57	51	0	0	22	20
Missouri	285	305	-6.5%	285	305	0	0	0	0	0	0
Nebraska	329	300	9.6%	329	300	0	0	0	0	0	0
North Dakota	827	735	12.6%	827	735	0	0	0	0	0	0
South Dakota	1,594	1,454	9.6%	1,594	1,454	0	0	0	0	0	0
South Atlantic	5,913	5,959	-0.8%	4,783	4,743	935	1,030	5	6	191	181
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	60	63	-5.5%	60	63	0	0	0	0	0	0
Georgia	1,224	1,186	3.2%	1,214	1,178	NM	NM	0	0	3	2
Maryland	735	825	-11.0%	0	0	735	825	0	0	0	0
North Carolina	1,954	1,922	1.7%	1,933	1,897	15	18	3	5	NM	NM
South Carolina	950	961	-1.2%	925	935	24	24	1	1	0	0
Virginia	485	512	-5.2%	471	494	14	18	0	0	0	0
West Virginia	506	490	3.3%	180	175	142	138	0	0	185	177
East South Central	7,481	7,353	1.7%	7,478	7,351	NM	NM	0	0	0	0
Alabama	3,593	3,557	1.0%	3,593	3,557	0	0	0	0	0	0
Kentucky	1,007	985	2.3%	1,005	982	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	2,881	2,811	2.5%	2,881	2,811	0	0	0	0	0	0
West South Central	2,250	2,272	-1.0%	1,914	1,947	336	325	NM	NM	0	0
Arkansas	941	952	-1.1%	927	940	14	11	0	0	0	0
Louisiana	314	302	4.2%	0	0	314	302	0	0	0	0
Oklahoma	617	620	-0.6%	617	620	0	0	0	0	0	0
Texas	378	399	-5.2%	370	387	8	12	NM	NM	0	0
Mountain	7,973	7,581	5.2%	7,680	7,310	292	270	1	1	0	0
Arizona	1,511	1,399	8.0%	1,511	1,399	0	0	0	0	0	0
Colorado	404	393	2.8%	355	347	47	45	1	1	0	0
Idaho	2,570	2,352	9.3%	2,376	2,171	194	181	0	0	0	0
Montana	2,669	2,435	9.6%	2,638	2,406	NM	NM	0	0	0	0
Nevada	354	563	-37.1%	339	552	NM	NM	0	0	0	0
New Mexico	NM	32	NM	NM	32	0	0	0	0	0	0
Utah	215	201	7.1%	211	197	4	4	0	0	0	0
Wyoming	219	207	6.0%	219	207	0	0	0	0	0	0
Pacific Contiguous	31,806	33,086	-3.9%	31,435	32,489	369	591	NM	NM	0	0
California	4,030	8,271	-51.3%	3,812	7,815	217	450	NM	NM	0	0
Oregon	9,128	8,331	9.6%	9,072	8,279	55	52	0	0	0	0
Washington	18,649	16,485	13.1%	18,551	16,396	97	89	0	0	0	0
Pacific Noncontiguous	405	371	9.2%	344	321	11	3	43	39	7	8
Alaska	384	358	7.3%	341	319	0	0	43	39	0	0
Hawaii	21	13	60.2%	3	2	11	3	0	0	7	8
U.S. Total	71,632	71,582	0.1%	64,968	64,751	6,308	6,484	55	57	302	290

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

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

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

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

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

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

**Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, March 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		
March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	1,015	990	2.6%	51	60	854	815	13	16	97	99	
Connecticut	87	79	9.7%	0	0	86	78	NM	NM	NM	NM	
Maine	431	435	-0.9%	0	0	332	332	3	4	96	98	
Massachusetts	217	211	3.2%	15	13	196	191	5	6	NM	NM	
New Hampshire	144	141	2.1%	0	15	140	122	4	4	0	0	
Rhode Island	51	46	12.0%	0	0	51	45	0	1	0	0	
Vermont	85	78	8.6%	35	31	49	47	0	0	0	0	
Middle Atlantic	1,465	1,306	12.1%	6	7	1,347	1,188	54	52	58	59	
New Jersey	174	165	5.7%	6	7	143	136	24	22	NM	NM	
New York	707	636	11.1%	0	0	673	602	18	17	15	17	
Pennsylvania	584	505	15.6%	0	0	530	451	11	12	42	42	
East North Central	3,719	3,342	11.3%	416	376	3,160	2,809	15	18	129	139	
Illinois	1,657	1,364	21.4%	10	10	1,646	1,353	NM	NM	0	0	
Indiana	702	665	5.6%	40	35	655	623	2	1	5	5	
Michigan	794	777	2.2%	253	231	490	479	3	7	47	59	
Ohio	283	277	2.1%	NM	NM	250	248	2	2	30	26	
Wisconsin	283	259	9.3%	110	98	119	105	7	8	46	48	
West North Central	8,987	7,986	12.5%	3,024	2,719	5,882	5,176	13	20	68	70	
Iowa	2,867	2,512	14.1%	2,034	1,780	827	723	3	4	3	5	
Kansas	1,976	1,868	5.8%	160	176	1,814	1,690	NM	NM	0	0	
Minnesota	1,386	1,272	8.9%	260	250	1,057	949	4	9	65	64	
Missouri	292	295	-1.0%	3	NM	287	288	3	4	0	0	
Nebraska	769	717	7.3%	35	34	733	682	1	1	0	0	
North Dakota	1,210	1,040	16.4%	453	394	757	645	NM	NM	NM	NM	
South Dakota	488	282	72.7%	80	83	407	199	0	0	0	0	
South Atlantic	3,627	3,161	14.7%	750	563	1,965	1,693	35	35	877	870	
Delaware	10	10	0.4%	NM	NM	8	7	0	1	NM	NM	
District of Columbia	7	6	22.6%	0	0	NM	NM	5	5	0	0	
Florida	920	747	23.2%	525	358	218	218	5	4	172	168	
Georgia	751	578	29.9%	25	27	385	216	NM	NM	341	335	
Maryland	134	127	5.3%	NM	NM	130	112	3	4	0	11	
North Carolina	907	881	2.9%	43	33	750	741	9	10	105	97	
South Carolina	307	268	14.8%	33	37	144	93	0	0	131	138	
Virginia	409	390	4.9%	123	107	148	150	12	12	126	121	
West Virginia	182	155	17.4%	0	0	182	155	0	0	0	0	
East South Central	623	581	7.3%	13	13	100	110	NM	NM	510	458	
Alabama	323	315	2.6%	2	3	29	46	0	0	292	266	
Kentucky	40	39	2.2%	10	10	1	1	0	0	29	28	
Mississippi	151	124	21.9%	0	0	36	27	0	0	115	97	
Tennessee	110	104	5.9%	NM	NM	35	35	NM	NM	74	68	
West South Central	11,212	10,067	11.4%	144	148	10,730	9,507	7	8	330	405	
Arkansas	88	144	-39.0%	NM	NM	19	24	2	1	66	119	
Louisiana	171	188	-9.1%	NM	NM	7	6	0	0	164	182	
Oklahoma	2,561	2,475	3.5%	118	123	2,417	2,323	0	0	26	29	
Texas	8,392	7,260	15.6%	26	25	8,287	7,153	5	7	74	75	
Mountain	4,434	4,206	5.4%	479	546	3,865	3,574	54	54	35	33	
Arizona	496	495	0.3%	52	57	443	437	NM	NM	0	0	
Colorado	1,038	1,048	-0.9%	131	208	905	838	NM	NM	0	0	
Idaho	358	336	6.4%	17	16	306	289	1	0	33	31	
Montana	229	209	9.4%	24	21	203	187	0	0	2	2	
Nevada	768	770	-0.3%	3	3	716	717	49	49	0	0	
New Mexico	827	670	23.5%	27	24	800	646	NM	NM	0	0	
Utah	293	286	2.4%	20	20	272	266	1	1	0	0	
Wyoming	425	392	8.4%	205	198	220	195	0	0	0	0	
Pacific Contiguous	6,907	6,539	5.6%	768	561	5,843	5,686	79	81	217	211	
California	4,988	5,124	-2.6%	169	165	4,678	4,821	75	77	66	61	
Oregon	956	626	52.7%	123	50	778	524	3	2	52	50	
Washington	963	789	22.0%	476	346	388	341	NM	1	98	101	
Pacific Noncontiguous	140	130	7.7%	19	21	104	89	17	20	NM	NM	
Alaska	19	17	10.7%	10	NM	6	NM	3	3	NM	NM	
Hawaii	121	113	7.2%	9	13	98	84	14	16	0	0	
U.S. Total	42,131	38,309	10.0%	5,670	5,013	33,851	30,647	288	304	2,322	2,345	

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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 1.11.B. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric****by State, by Sector, Year-to-Date through March 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	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD						
New England	2,929	2,912	0.6%	183	212	2,419	2,373	38	47	289	280
Connecticut	241	219	10.0%	1	1	238	217	NM	NM	NM	NM
Maine	1,247	1,297	-3.9%	0	0	951	1,005	10	14	286	278
Massachusetts	593	549	8.1%	42	33	534	498	15	17	NM	NM
New Hampshire	442	474	-6.7%	14	64	419	398	9	12	0	0
Rhode Island	144	126	14.4%	0	0	142	124	2	2	0	0
Vermont	262	247	5.7%	127	115	134	132	1	1	0	0
Middle Atlantic	4,159	3,722	11.8%	15	15	3,819	3,391	154	145	172	170
New Jersey	470	434	8.3%	15	15	388	357	66	62	NM	NM
New York	1,993	1,828	9.0%	0	0	1,896	1,733	50	47	47	49
Pennsylvania	1,696	1,459	16.2%	0	0	1,535	1,301	37	37	123	121
East North Central	10,652	9,579	11.2%	1,227	1,002	8,997	8,114	44	56	385	408
Illinois	4,575	3,900	17.3%	30	28	4,543	3,870	NM	NM	0	0
Indiana	2,017	1,912	5.5%	111	96	1,884	1,796	6	5	15	16
Michigan	2,368	2,191	8.1%	740	583	1,474	1,407	12	24	142	177
Ohio	845	820	3.1%	5	NM	750	739	4	4	86	73
Wisconsin	848	756	12.1%	340	291	347	302	19	21	141	143
West North Central	25,950	21,518	20.6%	8,616	7,271	17,103	14,008	43	54	189	185
Iowa	8,209	6,709	22.4%	5,782	4,701	2,404	1,983	11	13	12	12
Kansas	5,852	5,086	15.1%	466	460	5,382	4,622	NM	NM	0	0
Minnesota	3,918	3,450	13.6%	737	698	2,994	2,563	12	19	174	171
Missouri	855	797	7.2%	7	7	835	775	11	14	1	1
Nebraska	2,283	1,863	22.5%	102	94	2,176	1,764	4	4	0	0
North Dakota	3,503	2,831	23.7%	1,285	1,083	2,215	1,746	NM	NM	NM	1
South Dakota	1,330	781	70.3%	235	228	1,096	553	0	0	0	0
South Atlantic	9,841	8,441	16.6%	1,911	1,478	5,249	4,345	98	94	2,584	2,525
Delaware	26	25	6.4%	NM	NM	21	19	1	2	3	3
District of Columbia	19	16	17.5%	0	0	NM	NM	16	14	0	0
Florida	2,393	2,007	19.3%	1,292	918	614	617	13	12	473	459
Georgia	2,062	1,571	31.3%	63	62	993	533	NM	NM	1,006	976
Maryland	336	337	-0.4%	NM	NM	324	296	10	10	0	29
North Carolina	2,435	2,151	13.2%	110	76	1,981	1,761	23	23	322	292
South Carolina	858	758	13.1%	90	111	362	240	0	0	405	407
Virginia	1,175	1,115	5.3%	353	308	412	415	35	33	375	358
West Virginia	538	461	16.7%	0	0	538	461	0	0	0	0
East South Central	1,819	1,700	7.0%	35	34	257	258	NM	NM	1,525	1,406
Alabama	945	930	1.6%	6	6	74	113	0	0	864	811
Kentucky	117	106	10.9%	29	28	2	2	0	0	87	76
Mississippi	433	375	15.5%	0	0	88	65	0	0	346	311
Tennessee	323	289	11.9%	NM	NM	93	78	NM	NM	229	209
West South Central	33,904	29,415	15.3%	444	420	32,398	27,749	20	25	1,042	1,221
Arkansas	297	407	-27.1%	NM	NM	55	57	5	1	237	349
Louisiana	522	590	-11.6%	NM	NM	19	18	0	0	502	572
Oklahoma	7,821	7,078	10.5%	366	347	7,373	6,654	0	0	81	77
Texas	25,265	21,340	18.4%	77	73	24,951	21,020	15	23	222	224
Mountain	12,895	11,454	12.6%	1,542	1,475	11,104	9,737	148	151	101	91
Arizona	1,326	1,166	13.7%	136	129	1,188	1,034	2	2	0	0
Colorado	3,368	3,000	12.2%	552	579	2,809	2,417	5	4	1	1
Idaho	1,021	920	11.0%	50	45	874	789	2	2	94	84
Montana	707	616	14.8%	69	58	632	552	0	0	5	5
Nevada	2,135	1,976	8.1%	7	7	1,994	1,830	134	139	1	0
New Mexico	2,324	1,943	19.6%	73	51	2,250	1,891	NM	NM	0	0
Utah	777	747	4.0%	53	58	720	686	3	4	0	0
Wyoming	1,238	1,086	14.0%	601	548	637	538	0	0	0	0
Pacific Contiguous	19,416	17,310	12.2%	2,229	1,651	16,337	14,830	222	225	628	604
California	13,737	13,223	3.9%	436	462	12,909	12,373	211	214	181	174
Oregon	2,822	1,783	58.3%	365	152	2,295	1,486	7	7	155	138
Washington	2,857	2,304	24.0%	1,429	1,037	1,134	971	3	3	292	292
Pacific Noncontiguous	393	357	10.1%	54	55	289	248	49	53	NM	NM
Alaska	56	49	14.4%	30	25	16	15	10	9	NM	NM
Hawaii	336	308	9.4%	24	30	272	234	40	43	0	0
U.S. Total	121,959	106,407	14.6%	16,256	13,614	97,971	85,052	816	851	6,916	6,890

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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.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, March 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	
Census Division and State	March 2020	March 2019	Percentage Change	March 2020	March 2019						
New England	-45	-50	-11.1%	0	0	-45	-50	0	0	0	0
Connecticut	-7	-6	27.6%	0	0	-7	-6	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-37	-45	-16.1%	0	0	-37	-45	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	-78	-95	-17.9%	-22	-45	-56	-49	0	0	0	0
New Jersey	-6	-11	-49.7%	-6	-11	0	0	0	0	0	0
New York	-16	-34	-53.1%	-16	-34	0	0	0	0	0	0
Pennsylvania	-56	-49	13.7%	0	0	-56	-49	0	0	0	0
East North Central	-55	-54	1.9%	-55	-54	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	-55	-54	1.9%	-55	-54	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	13	22	-41.0%	13	22	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	13	22	-41.0%	13	22	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	-73	-124	-41.3%	-73	-124	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	18	38	-52.8%	18	38	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	-31	-70	-56.3%	-31	-70	0	0	0	0	0	0
Virginia	-60	-92	-34.6%	-60	-92	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-38	-43	-11.1%	-38	-43	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	-38	-43	-11.1%	-38	-43	0	0	0	0	0	0
West South Central	-2	7	-123.7%	-2	7	0	0	0	0	0	0
Arkansas	6	15	-58.9%	6	15	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-8	-8	-2.6%	-8	-8	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-22	-17	29.7%	-22	-17	0	0	0	0	0	0
Arizona	-2	-1	87.1%	-2	-1	0	0	0	0	0	0
Colorado	-20	-16	26.5%	-20	-16	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	-54	-55	-1.4%	-54	-55	0	0	0	0	0	0
California	-53	-55	-2.6%	-53	-55	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-1	0	NM	-1	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-353	-409	-13.7%	-252	-309	-101	-100	0	0	0	0

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

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

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

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

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

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

**Table 1.12.B. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power****by State, by Sector, Year-to-Date through March 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	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD						
New England	-94	-110	-14.6%	0	0	-94	-110	0	0	0	0
Connecticut	-2	2	-249.7%	0	0	-2	2	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-91	-111	-18.1%	0	0	-91	-111	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	-229	-244	-6.1%	-106	-100	-123	-144	0	0	0	0
New Jersey	-52	-21	143.5%	-52	-21	0	0	0	0	0	0
New York	-54	-78	-31.5%	-54	-78	0	0	0	0	0	0
Pennsylvania	-123	-144	-14.5%	0	0	-123	-144	0	0	0	0
East North Central	-157	-122	28.0%	-157	-122	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	-157	-122	28.0%	-157	-122	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	21	113	-81.2%	21	113	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	21	113	-81.2%	21	113	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	-260	-282	-7.7%	-260	-282	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	40	77	-48.6%	40	77	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	-108	-178	-39.1%	-108	-178	0	0	0	0	0	0
Virginia	-191	-181	5.8%	-191	-181	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-142	-138	3.1%	-142	-138	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	-142	-138	3.1%	-142	-138	0	0	0	0	0	0
West South Central	3	-3	-208.5%	3	-3	0	0	0	0	0	0
Arkansas	23	22	6.6%	23	22	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-20	-25	-19.6%	-20	-25	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-44	-93	-52.7%	-44	-93	0	0	0	0	0	0
Arizona	-8	-43	-80.6%	-8	-43	0	0	0	0	0	0
Colorado	-35	-49	-28.3%	-35	-49	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	-105	-242	-56.8%	-105	-242	0	0	0	0	0	0
California	-110	-244	-55.2%	-110	-244	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	5	2	144.0%	5	2	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-1,006	-1,121	-10.3%	-789	-866	-217	-254	0	0	0	0

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

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

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

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

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

**Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, March 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							
March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020						
New England	167	166	0.2%	0	0	151	147	4	5	12	14
Connecticut	52	50	4.5%	0	0	52	50	0	0	0	0
Maine	30	32	-3.9%	0	0	14	13	4	5	12	14
Massachusetts	79	80	-0.9%	0	0	79	80	0	0	0	0
New Hampshire	5	5	-0.8%	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	205	185	10.8%	0	0	162	144	43	39	0	2
New Jersey	49	42	16.6%	0	0	34	29	15	11	0	2
New York	82	69	18.9%	0	0	63	51	19	18	0	0
Pennsylvania	74	74	-0.1%	0	0	65	64	9	9	0	0
East North Central	51	66	-22.9%	2	2	7	6	6	10	36	49
Illinois	-1	18	-104.8%	0	0	-1	-1	0	0	0	19
Indiana	34	24	43.8%	0	0	0	0	2	1	32	23
Michigan	13	17	-24.0%	0	0	8	7	4	8	1	2
Ohio	1	2	-60.8%	0	0	0	0	0	0	1	2
Wisconsin	3	4	-20.3%	2	2	0	0	0	0	NM	NM
West North Central	39	28	39.6%	18	13	14	9	3	NM	5	5
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	0.0%	0	0	0	0	0	0	0	0
Minnesota	34	24	44.9%	14	9	14	9	3	NM	4	5
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	5	4	13.7%	5	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	394	381	3.5%	0	0	235	216	14	14	146	151
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	269	1.3%	0	0	149	146	0	0	124	122
Georgia	4	9	-48.5%	0	0	0	0	0	0	4	9
Maryland	29	17	73.5%	0	0	29	17	0	0	0	0
North Carolina	37	40	-6.8%	0	0	21	21	0	0	16	19
South Carolina	2	2	16.5%	0	0	1	1	0	0	2	2
Virginia	50	45	10.5%	0	0	37	31	14	14	0	0
West Virginia	-1	-1	145.6%	0	0	-1	-1	0	0	0	0
East South Central	3	0	541.5%	2	0	0	0	0	NM	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	2	0	--	2	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	NM	0	NM	0	0	0	0	0	0	NM	0
West South Central	58	83	-29.7%	0	0	2	7	0	0	56	76
Arkansas	0	1	-57.6%	0	0	0	0	0	0	0	1
Louisiana	34	36	-5.7%	0	0	0	0	0	0	34	36
Oklahoma	0	0	-53.4%	0	0	0	0	0	0	0	0
Texas	24	46	-47.6%	0	0	2	7	0	0	22	39
Mountain	58	70	-17.6%	8	8	24	29	0	0	26	33
Arizona	0	0	-5.6%	0	0	0	0	0	0	0	0
Colorado	5	5	0.3%	0	0	1	1	0	0	4	4
Idaho	6	7	-14.8%	0	0	0	0	0	0	6	7
Montana	23	28	-17.8%	0	0	23	28	0	0	0	0
Nevada	2	3	-3.0%	2	3	0	0	0	0	0	0
New Mexico	0	0	52.0%	0	0	0	0	0	0	0	0
Utah	14	21	-32.4%	6	5	0	0	0	0	9	16
Wyoming	8	7	8.2%	0	0	0	0	0	0	8	7
Pacific Contiguous	53	70	-24.2%	-1	-1	25	22	0	0	29	50
California	43	63	-31.2%	-1	-1	15	15	0	0	29	50
Oregon	4	1	324.7%	0	0	4	1	0	0	0	0
Washington	6	7	-5.8%	0	0	6	7	0	0	0	0
Pacific Noncontiguous	30	32	-5.7%	13	12	0	0	17	20	0	0
Alaska	0	0	-16.0%	0	0	0	0	0	0	0	0
Hawaii	30	32	-5.7%	13	12	0	0	17	20	0	0
U.S. Total	1,058	1,082	-2.2%	41	33	620	581	86	89	311	379

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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 1.13.B. Utility Scale Facility Net Generation from Other Energy Sources****by State, by Sector, Year-to-Date through March 2020 and 2019 (Thousand Megawatthours)**

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities				Generation at Utility Scale Facilities	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	475	460	3.2%	0	0	431	409	12	17	32	34
Connecticut	145	129	13.0%	0	0	145	129	0	0	0	0
Maine	83	87	-4.1%	0	0	39	36	12	17	32	34
Massachusetts	233	231	0.7%	0	0	233	231	0	0	0	0
New Hampshire	14	14	-2.0%	0	0	14	14	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	615	604	1.8%	0	0	481	476	127	118	7	10
New Jersey	150	144	4.2%	0	0	100	96	43	39	7	10
New York	244	223	9.2%	0	0	190	173	54	50	0	0
Pennsylvania	221	237	-6.7%	0	0	191	208	29	29	0	0
East North Central	197	216	-9.0%	5	4	20	25	20	34	151	153
Illinois	40	63	-36.0%	0	0	-4	-3	0	0	44	66
Indiana	102	76	34.2%	0	0	0	0	7	6	96	71
Michigan	42	63	-34.0%	0	0	24	29	14	28	4	6
Ohio	2	3	-18.0%	0	0	0	0	0	0	2	3
Wisconsin	10	11	-9.6%	5	4	0	0	0	0	5	7
West North Central	104	98	5.8%	42	46	38	33	9	4	15	15
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	1	1	0.2%	0	0	0	0	0	0	1	1
Minnesota	88	83	6.4%	28	32	38	33	9	4	13	14
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	14	14	2.9%	14	14	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,050	1,153	-8.9%	0	0	654	658	39	38	358	458
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	714	805	-11.3%	0	0	439	440	0	0	276	365
Georgia	20	24	-17.2%	0	0	0	0	0	0	20	24
Maryland	40	49	-18.1%	0	0	40	49	0	0	0	0
North Carolina	127	131	-3.0%	0	0	74	72	0	0	53	59
South Carolina	11	11	0.7%	0	0	2	1	0	0	9	9
Virginia	142	134	5.3%	0	0	103	97	39	38	0	0
West Virginia	-4	-2	125.6%	0	0	-4	-2	0	0	0	0
East South Central	18	7	154.1%	16	6	0	0	0	0	2	1
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	16	6	181.3%	16	6	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	2	1	40.6%	0	0	0	0	0	0	2	1
West South Central	199	269	-25.9%	0	0	7	20	0	0	193	249
Arkansas	2	1	49.6%	0	0	0	0	0	0	2	1
Louisiana	101	126	-20.2%	0	0	0	0	0	0	101	126
Oklahoma	1	2	-57.6%	0	0	0	1	0	0	1	1
Texas	96	140	-31.4%	0	0	7	19	0	0	89	121
Mountain	180	177	1.4%	24	20	74	77	0	0	83	80
Arizona	-1	-1	12.9%	0	0	-1	-1	0	0	0	0
Colorado	16	12	27.7%	0	0	5	2	0	0	11	11
Idaho	18	19	-1.5%	0	0	0	0	0	0	18	19
Montana	70	77	-9.0%	0	0	70	77	0	0	0	0
Nevada	8	5	63.0%	8	5	0	0	0	0	0	0
New Mexico	0	0	-21.1%	0	0	0	0	0	0	0	0
Utah	48	46	4.4%	16	15	0	0	0	0	32	31
Wyoming	21	20	6.2%	0	0	0	0	0	0	21	20
Pacific Contiguous	181	203	-11.0%	-3	-4	73	57	0	0	111	150
California	152	185	-17.7%	-3	-4	44	39	0	0	111	150
Oregon	11	1	NM	0	0	11	1	0	0	0	0
Washington	18	18	0.1%	0	0	18	18	0	0	0	0
Pacific Noncontiguous	89	90	-0.7%	41	37	0	0	49	53	0	0
Alaska	-1	-1	-10.1%	-1	-1	0	0	0	0	0	0
Hawaii	90	91	-0.8%	42	38	0	0	49	53	0	0
U.S. Total	3,108	3,279	-5.2%	125	108	1,778	1,757	255	263	950	1,151

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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.A. Utility Scale Facility Net Generation from Wind  
by State, by Sector, March 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							
March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020						
New England	386	342	12.7%	24	20	359	318	2	4	NM	NM
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	247	229	7.7%	0	0	247	229	0	0	0	0
Massachusetts	24	20	17.9%	6	NM	15	NM	NM	NM	NM	NM
New Hampshire	51	34	50.4%	0	0	51	34	0	0	0	0
Rhode Island	24	22	6.5%	0	0	23	21	0	1	0	0
Vermont	39	36	10.6%	18	15	22	21	0	0	0	0
Middle Atlantic	861	757	13.7%	0	0	860	756	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	470	436	7.7%	0	0	469	436	NM	NM	NM	NM
Pennsylvania	389	319	22.0%	0	0	389	319	0	0	0	0
East North Central	3,209	2,827	13.5%	342	296	2,856	2,521	3	NM	8	NM
Illinois	1,615	1,323	22.1%	NM	NM	1,613	1,321	NM	NM	0	0
Indiana	636	602	5.6%	0	0	636	602	0	0	0	0
Michigan	595	560	6.3%	246	223	349	336	0	0	0	0
Ohio	190	204	-7.0%	NM	NM	181	196	0	0	7	NM
Wisconsin	174	138	25.8%	93	71	78	65	NM	NM	1	1
West North Central	8,677	7,691	12.8%	2,995	2,689	5,678	4,997	NM	NM	0	0
Iowa	2,848	2,494	14.2%	2,032	1,778	816	716	0	0	0	0
Kansas	1,969	1,861	5.8%	160	176	1,808	1,684	NM	NM	0	0
Minnesota	1,127	1,031	9.3%	241	231	883	798	NM	NM	0	0
Missouri	276	276	-0.2%	0	0	276	276	0	0	0	0
Nebraska	760	707	7.5%	29	27	731	680	0	0	0	0
North Dakota	1,210	1,040	16.4%	453	394	757	645	NM	NM	0	0
South Dakota	487	282	72.8%	80	83	407	199	0	0	0	0
South Atlantic	301	268	12.6%	0	0	301	267	0	1	0	0
Delaware	0	1	-19.6%	0	0	0	0	0	1	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	56	55	3.3%	0	0	56	55	0	0	0	0
North Carolina	63	58	8.7%	0	0	63	58	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	182	155	17.4%	0	0	182	155	0	0	0	0
East South Central	5	NM	NM	0	0	5	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	5	NM	NM	0	0	5	NM	0	0	0	0
West South Central	10,400	9,270	12.2%	138	142	10,256	9,123	5	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	2,529	2,439	3.7%	114	118	2,416	2,322	0	0	0	0
Texas	7,871	6,830	15.2%	24	24	7,840	6,801	5	4	NM	NM
Mountain	2,686	2,461	9.1%	375	441	2,310	2,020	NM	NM	0	0
Arizona	48	51	-6.9%	0	0	48	51	0	0	0	0
Colorado	922	935	-1.4%	130	208	792	727	0	NM	0	0
Idaho	266	243	9.5%	16	15	250	228	0	0	0	0
Montana	224	205	9.7%	24	21	201	184	0	0	0	0
Nevada	28	30	-6.2%	0	0	28	30	0	0	0	0
New Mexico	706	551	28.1%	0	0	706	551	NM	NM	0	0
Utah	81	70	15.7%	0	0	81	70	0	0	0	0
Wyoming	410	377	9.0%	205	198	205	179	0	0	0	0
Pacific Contiguous	2,892	2,432	18.9%	620	415	2,271	2,016	1	1	0	0
California	1,290	1,314	-1.9%	55	51	1,234	1,262	1	1	0	0
Oregon	781	471	65.8%	118	45	663	426	0	0	0	0
Washington	822	647	27.0%	447	320	374	327	0	0	0	0
Pacific Noncontiguous	67	66	2.0%	10	NM	57	57	0	0	0	0
Alaska	16	NM	NM	10	NM	6	NM	0	0	0	0
Hawaii	51	52	-1.3%	0	0	51	52	0	0	0	0
U.S. Total	29,483	26,116	12.9%	4,503	4,012	24,953	22,078	17	17	10	NM

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

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

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

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

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

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

**Table 1.14.B. Utility Scale Facility Net Generation from Wind****by State, by Sector, Year-to-Date through March 2020 and 2019 (Thousand Megawatthours)**

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities					
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	1,092	983	11.0%	69	58	1,013	914	8	11	NM	NM
Connecticut	4	NM	NM	0	0	4	NM	0	0	0	0
Maine	692	663	4.5%	0	0	692	663	0	0	0	0
Massachusetts	71	58	23.3%	18	15	46	34	7	8	NM	NM
New Hampshire	148	98	50.3%	0	0	148	98	0	0	0	0
Rhode Island	66	64	3.4%	0	0	64	61	2	2	0	0
Vermont	110	97	13.3%	52	43	59	54	0	0	0	0
Middle Atlantic	2,462	2,184	12.8%	0	0	2,460	2,182	NM	NM	NM	NM
New Jersey	7	NM	NM	0	0	7	NM	0	0	0	0
New York	1,328	1,265	5.0%	0	0	1,326	1,263	NM	NM	NM	NM
Pennsylvania	1,127	913	23.5%	0	0	1,127	913	0	0	0	0
East North Central	9,164	8,081	13.4%	1,005	781	8,127	7,272	9	NM	23	20
Illinois	4,454	3,784	17.7%	4	NM	4,449	3,780	NM	NM	0	0
Indiana	1,835	1,747	5.1%	0	0	1,835	1,747	0	0	0	0
Michigan	1,772	1,526	16.1%	725	565	1,047	961	0	0	0	0
Ohio	592	617	-4.1%	4	NM	566	596	1	1	21	18
Wisconsin	511	406	25.7%	273	210	229	189	6	NM	2	2
West North Central	25,113	20,768	20.9%	8,534	7,182	16,567	13,575	13	12	0	0
Iowa	8,151	6,654	22.5%	5,777	4,696	2,373	1,956	1	1	0	0
Kansas	5,832	5,069	15.1%	466	460	5,363	4,606	NM	NM	0	0
Minnesota	3,237	2,853	13.5%	687	639	2,543	2,207	7	NM	0	0
Missouri	807	747	8.0%	0	0	807	747	0	0	0	0
Nebraska	2,255	1,835	22.9%	83	76	2,171	1,759	0	0	0	0
North Dakota	3,502	2,830	23.7%	1,285	1,083	2,215	1,746	NM	NM	0	0
South Dakota	1,330	781	70.3%	235	228	1,095	553	0	0	0	0
South Atlantic	883	774	14.1%	0	0	882	772	1	2	0	0
Delaware	1	2	-9.4%	0	0	0	0	1	2	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	165	153	8.1%	0	0	165	153	0	0	0	0
North Carolina	179	158	12.8%	0	0	179	158	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	538	461	16.7%	0	0	538	461	0	0	0	0
East South Central	14	NM	NM	0	0	14	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	14	NM	NM	0	0	14	NM	0	0	0	0
West South Central	31,527	27,205	15.9%	428	406	31,083	26,783	14	13	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	7,722	6,985	10.6%	354	335	7,368	6,649	0	0	0	0
Texas	23,804	20,221	17.7%	74	71	23,714	20,133	14	13	NM	NM
Mountain	8,179	7,190	13.7%	1,268	1,226	6,909	5,962	NM	NM	1	1
Arizona	140	138	1.5%	0	0	140	138	0	0	0	0
Colorado	3,065	2,735	12.1%	551	578	2,513	2,156	NM	NM	1	1
Idaho	779	688	13.3%	47	41	732	646	0	0	0	0
Montana	695	604	15.1%	69	58	626	546	0	0	0	0
Nevada	82	80	1.7%	0	0	82	80	0	0	0	0
New Mexico	2,006	1,669	20.2%	0	0	2,005	1,668	NM	NM	0	0
Utah	210	222	-5.8%	0	0	210	222	0	0	0	0
Wyoming	1,202	1,054	14.0%	601	548	601	506	0	0	0	0
Pacific Contiguous	8,488	6,856	23.8%	1,846	1,235	6,639	5,618	2	2	1	1
California	3,705	3,601	2.9%	152	153	3,551	3,446	2	2	1	1
Oregon	2,341	1,374	70.4%	350	137	1,992	1,236	0	0	0	0
Washington	2,441	1,880	29.8%	1,345	945	1,096	935	0	0	0	0
Pacific Noncontiguous	199	188	5.9%	30	25	170	164	0	0	0	0
Alaska	46	39	17.1%	30	25	16	15	0	0	0	0
Hawaii	153	149	3.0%	0	0	153	149	0	0	0	0
U.S. Total	87,121	74,238	17.4%	13,179	10,912	73,863	63,251	49	49	30	26

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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, March 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							
March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020						
New England	482	-5.7%	13	28	364	374	10	11	96	98	
Connecticut	66	4.7%	0	0	66	63	0	0	0	0	0
Maine	183	-10.4%	0	0	84	102	3	4	96	98	
Massachusetts	90	0.7%	0	0	87	87	2	2	0	0	0
New Hampshire	94	-13.0%	0	15	90	89	4	4	0	0	0
Rhode Island	20	6.1%	0	0	20	18	0	0	0	0	0
Vermont	30	5.8%	13	13	17	15	0	0	0	0	0
Middle Atlantic	411	4.7%	0	0	315	297	41	38	56	57	
New Jersey	66	4.1%	0	0	52	53	14	11	0	0	0
New York	162	7.2%	0	0	131	119	17	16	14	16	
Pennsylvania	183	2.8%	0	0	131	125	11	12	41	41	
East North Central	424	-6.0%	51	59	242	246	10	14	121	132	
Illinois	37	3.7%	9	9	28	27	0	0	0	0	0
Indiana	37	6.6%	25	23	4	4	2	1	5	5	
Michigan	186	-8.5%	0	0	136	137	3	7	47	59	
Ohio	61	0.8%	0	0	38	40	1	1	23	19	
Wisconsin	103	-12.0%	17	27	36	37	4	5	46	47	
West North Central	159	-1.6%	28	29	55	47	8	16	68	70	
Iowa	17	-3.0%	NM	NM	10	7	3	4	3	5	
Kansas	5	9.3%	0	0	5	5	0	0	0	0	
Minnesota	122	-0.5%	18	18	37	32	2	7	65	64	
Missouri	8	-14.5%	2	NM	3	NM	3	4	0	0	
Nebraska	7	-7.0%	5	6	0	0	1	1	0	0	
North Dakota	NM	NM	NM	0	0	0	0	0	NM	NM	
South Dakota	0	--	0	0	0	0	0	0	0	0	
South Atlantic	1,631	5.0%	156	170	575	492	23	22	876	869	
Delaware	5	2.9%	0	0	4	4	0	0	NM	NM	
District of Columbia	5	21.1%	0	0	0	0	5	5	0	0	
Florida	386	0.3%	44	44	166	171	4	3	172	167	
Georgia	484	19.4%	0	0	143	70	0	0	341	335	
Maryland	32	4.8%	0	0	30	17	2	2	0	11	
North Carolina	206	2.9%	0	0	100	103	NM	NM	105	97	
South Carolina	196	-4.9%	32	36	33	32	0	0	131	137	
Virginia	318	-0.3%	80	90	100	96	12	12	126	121	
West Virginia	0	--	0	0	0	0	0	0	0	0	
East South Central	528	8.5%	8	7	11	23	0	0	510	457	
Alabama	295	5.1%	0	0	3	15	0	0	292	266	
Kentucky	37	3.8%	8	7	1	1	0	0	29	28	
Mississippi	116	18.7%	0	0	NM	NM	0	0	115	97	
Tennessee	80	10.0%	0	0	6	6	0	0	74	67	
West South Central	378	-19.3%	0	0	48	61	0	4	329	404	
Arkansas	73	-41.9%	0	0	7	7	0	1	66	119	
Louisiana	171	-9.1%	0	0	7	6	0	0	164	182	
Oklahoma	28	-10.2%	0	0	NM	NM	0	0	26	29	
Texas	106	-14.2%	0	0	33	47	0	3	73	74	
Mountain	91	4.7%	NM	NM	53	52	2	1	35	33	
Arizona	19	8.7%	0	0	19	18	0	0	0	0	
Colorado	15	7.5%	0	0	15	14	0	0	0	0	
Idaho	43	3.7%	NM	NM	8	9	1	0	33	31	
Montana	2	2.2%	0	0	0	0	0	0	2	2	
Nevada	5	1.9%	0	0	5	5	0	0	0	0	
New Mexico	1	-40.2%	0	0	1	2	0	0	0	0	
Utah	6	10.0%	0	0	5	5	1	1	0	0	
Wyoming	0	--	0	0	0	0	0	0	0	0	
Pacific Contiguous	715	2.0%	40	36	395	390	66	66	214	208	
California	486	2.2%	7	6	354	349	62	63	63	58	
Oregon	92	5.1%	5	4	32	31	3	2	52	50	
Washington	138	-0.5%	28	26	10	10	NM	1	98	101	
Pacific Noncontiguous	24	-27.4%	2	10	4	4	17	20	NM	NM	
Alaska	4	-2.5%	0	0	0	0	3	3	NM	NM	
Hawaii	21	-30.4%	2	10	4	4	14	16	0	0	
U.S. Total	4,843	-0.1%	298	340	2,062	1,986	178	192	2,305	2,329	

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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 March 2020 and 2019 (Thousand Megawatthours)**

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities				Generation at Utility Scale Facilities	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	1,468	1,621	-9.5%	76	129	1,079	1,180	27	33	286	278
Connecticut	189	182	4.2%	0	0	189	182	0	0	0	0
Maine	552	632	-12.6%	0	0	256	340	10	14	286	278
Massachusetts	263	263	0.0%	0	0	257	256	7	7	0	0
New Hampshire	294	375	-21.6%	14	64	271	300	9	12	0	0
Rhode Island	57	50	13.0%	0	0	57	50	0	0	0	0
Vermont	111	117	-5.4%	62	65	48	52	1	1	0	0
Middle Atlantic	1,215	1,188	2.3%	0	0	927	909	122	114	166	165
New Jersey	199	204	-2.1%	0	0	160	169	39	35	0	0
New York	474	455	4.3%	0	0	384	366	46	43	44	46
Pennsylvania	541	529	2.2%	0	0	383	374	36	36	122	119
East North Central	1,273	1,354	-6.0%	165	175	715	747	31	45	361	387
Illinois	108	103	4.2%	26	24	82	79	0	0	0	0
Indiana	105	101	3.7%	72	69	12	12	5	5	15	16
Michigan	565	633	-10.7%	0	0	412	433	11	23	142	177
Ohio	173	175	-0.7%	0	0	106	118	2	2	65	55
Wisconsin	322	342	-5.9%	67	81	104	106	12	15	139	140
West North Central	457	463	-1.3%	77	86	161	151	30	42	189	185
Iowa	54	53	1.2%	4	NM	28	26	10	12	12	12
Kansas	16	15	5.1%	0	0	16	15	0	0	0	0
Minnesota	337	342	-1.5%	50	58	108	101	5	12	174	171
Missouri	28	30	-5.8%	7	6	9	9	11	14	1	1
Nebraska	21	22	-4.7%	17	18	0	0	4	4	0	0
North Dakota	NM	1	NM	0	0	0	0	0	0	NM	1
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	4,780	4,636	3.1%	472	559	1,657	1,488	68	65	2,582	2,523
Delaware	13	13	3.1%	0	0	11	10	0	0	3	3
District of Columbia	16	14	14.7%	0	0	0	0	16	14	0	0
Florida	1,108	1,160	-4.5%	137	180	487	512	11	10	473	459
Georgia	1,407	1,184	18.8%	0	0	401	208	0	0	1,006	976
Maryland	55	90	-38.1%	0	0	50	54	5	6	0	29
North Carolina	639	597	7.2%	0	0	316	303	NM	2	322	292
South Carolina	592	623	-5.0%	88	110	100	106	0	0	404	406
Virginia	949	956	-0.7%	247	269	292	295	34	33	375	358
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	1,578	1,492	5.7%	22	21	32	66	0	0	1,524	1,405
Alabama	873	855	2.1%	0	0	9	44	0	0	864	811
Kentucky	110	98	12.0%	22	21	2	2	0	0	87	76
Mississippi	348	313	11.2%	0	0	3	NM	0	0	346	311
Tennessee	246	225	9.0%	0	0	18	17	0	0	228	208
West South Central	1,192	1,382	-13.7%	0	0	152	153	1	11	1,039	1,218
Arkansas	258	370	-30.1%	0	0	20	20	1	1	237	349
Louisiana	522	590	-11.6%	0	0	19	18	0	0	502	572
Oklahoma	86	81	6.0%	0	0	5	5	0	0	81	77
Texas	326	341	-4.4%	0	0	107	110	0	9	219	221
Mountain	263	258	2.0%	3	NM	155	159	5	6	99	89
Arizona	57	61	-6.3%	0	0	57	61	0	0	0	0
Colorado	44	39	11.7%	0	0	44	39	0	0	0	0
Idaho	121	116	4.4%	3	NM	22	27	2	2	94	84
Montana	5	5	1.4%	0	0	0	0	0	0	5	5
Nevada	13	13	5.0%	0	0	13	13	0	0	0	0
New Mexico	3	5	-33.3%	0	0	3	5	0	0	0	0
Utah	18	18	1.8%	0	0	15	15	3	4	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,121	2,130	-0.4%	116	124	1,196	1,218	188	191	621	597
California	1,440	1,463	-1.5%	18	19	1,070	1,096	178	181	174	167
Oregon	274	252	8.4%	14	13	97	94	7	7	155	138
Washington	408	415	-1.9%	84	92	29	28	3	3	292	292
Pacific Noncontiguous	69	87	-20.5%	6	21	13	12	49	53	NM	NM
Alaska	10	10	3.6%	0	0	0	0	10	9	NM	NM
Hawaii	59	77	-23.6%	6	21	13	12	40	43	0	0
U.S. Total	14,416	14,611	-1.3%	939	1,119	6,087	6,083	521	560	6,869	6,850

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.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, March 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	
Census Division and State	March 2020	March 2019	Percentage Change	March 2020	March 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	403	384	5.0%	20	20	339	320	44	44	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	NM	NM	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	352	334	5.4%	0	0	308	290	44	44	0	0
New Mexico	6	6	-1.5%	0	0	6	6	0	0	0	0
Utah	38	37	2.4%	20	20	18	17	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,074	1,041	3.2%	69	66	1,005	975	0	0	0	0
California	1,061	1,028	3.3%	69	66	992	962	0	0	0	0
Oregon	13	13	2.4%	0	0	13	13	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	13	12	2.9%	0	0	13	12	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	13	12	2.9%	0	0	13	12	0	0	0	0
U.S. Total	1,490	1,437	3.7%	90	86	1,356	1,307	44	44	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 March 2020 and 2019 (Thousand Megawatthours)**

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD						
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	1,087	1,121	-3.0%	53	58	911	936	122	127	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	17	18	-6.7%	0	0	17	18	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	950	976	-2.6%	0	0	829	849	122	127	0	0
New Mexico	16	17	-5.6%	0	0	16	17	0	0	0	0
Utah	103	109	-5.6%	53	58	49	51	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,785	3,011	-7.5%	169	194	2,616	2,818	0	0	0	0
California	2,750	2,974	-7.5%	169	194	2,581	2,780	0	0	0	0
Oregon	35	37	-5.5%	0	0	35	37	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	29	35	-15.5%	0	0	29	35	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	29	35	-15.5%	0	0	29	35	0	0	0	0
U.S. Total	3,901	4,167	-6.4%	222	251	3,557	3,788	122	127	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, March 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		Independent Power Producers		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			
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019				
New England	487	421	15.8%	148	137	339	284	15	11	132	124	NM	NM	NM	NM	185	152	NM	NM	NM	15	11	140	121	
Connecticut	83	66	25.5%	19	15	64	51	0	0	18	14	NM	NM	NM	NM	24	19	NM	NM	NM	4	2	36	30	
Maine	NM	7	NM	NM	NM	8	6	0	0	NM	NM	3	3	0	0	3	3	0	0	0	0	5	4		
Massachusetts	318	291	9.2%	104	102	214	190	9	8	94	92	NM	NM	NM	NM	129	114	NM	NM	NM	10	8	75	68	
New Hampshire	14	11	23.3%	0	0	14	11	0	0	0	4	3	0	0	4	3	1	1	0	0	1	1	8	7	
Rhode Island	34	18	86.9%	8	5	26	13	0	0	8	5	19	8	0	0	19	8	0	0	0	0	0	7	5	
Vermont	30	27	11.3%	16	14	15	13	5	3	11	6	5	0	0	6	5	0	0	0	0	0	0	9	8	
Middle Atlantic	654	548	19.4%	192	156	462	392	6	7	172	134	227	185	13	14	215	171	NM	21	NM	2	25	19	222	201
New Jersey	324	293	10.4%	106	100	217	193	6	7	89	81	113	103	11	12	103	91	NM	NM	NM	18	13	97	90	
New York	270	207	30.8%	75	49	195	158	0	0	73	47	NM	NM	NM	NM	96	67	NM	NM	NM	2	2	98	89	
Pennsylvania	61	48	25.3%	11	7	49	41	0	0	10	6	NM	NM	NM	NM	16	14	NM	NM	NM	6	5	27	22	
East North Central	159	120	33.2%	69	64	90	55	23	21	44	42	NM	NM	NM	NM	44	33	5	3	0	0	5	3	41	20
Illinois	37	18	98.0%	5	6	31	13	NM	0	5	5	NM	NM	NM	NM	17	8	0	0	0	0	0	0	14	5
Indiana	44	39	12.7%	30	29	14	11	15	12	15	16	NM	NM	NM	NM	7	7	0	0	0	0	0	0	6	3
Michigan	26	23	14.6%	13	14	13	9	7	8	6	6	NM	NM	NM	NM	6	5	NM	0	0	0	0	0	7	4
Ohio	35	27	27.4%	15	12	20	15	NM	NM	14	11	NM	NM	NM	NM	10	10	3	1	0	0	2	1	7	4
Wisconsin	18	12	49.3%	6	4	12	8	0	0	5	3	NM	NM	NM	NM	4	3	2	1	0	0	2	1	6	3
West North Central	214	182	17.7%	151	133	63	48	2	2	149	131	28	23	0	0	28	23	2	2	0	0	2	2	32	24
Iowa	NM	14	NM	NM	NM	17	13	NM	NM	NM	NM	10	8	0	0	10	8	0	0	0	0	0	0	6	5
Kansas	NM	5	NM	NM	NM	4	3	NM	NM	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	2	2
Minnesota	147	127	16.0%	138	119	10	8	NM	NM	137	119	2	3	0	0	2	3	1	1	0	0	1	1	6	5
Missouri	38	32	20.1%	8	9	30	22	0	0	8	9	14	10	0	0	14	10	1	0	0	0	0	0	16	12
Nebraska	4	4	9.2%	3	3	2	1	NM	NM	2	2	1	0	0	0	1	0	0	0	0	0	0	0	1	1
North Dakota	0	0	19.5%	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	NM	NM	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Atlantic	1,991	1,584	25.7%	1,691	1,336	299	248	591	390	1,089	933	79	77	11	12	68	65	NM	NM	NM	32	29	198	154	
Delaware	16	16	2.0%	4	4	11	11	NM	NM	4	4	3	3	0	0	3	3	1	1	0	0	1	1	7	7
District of Columbia	NM	8	NM	NM	NM	10	7	0	0	NM	NM	5	4	0	0	5	4	0	0	0	0	0	0	5	3
Florida	619	414	49.4%	531	359	88	55	478	311	53	47	NM	NM	NM	NM	13	12	NM	NM	NM	1	1	74	43	
Georgia	NM	200	NM	267	173	NM	27	25	27	242	146	NM	NM	NM	NM	4	4	NM	NM	0	0	NM	NM	NM	NM
Maryland	131	128	2.1%	46	43	85	86	NM	NM	44	40	NM	NM	NM	NM	22	22	3	3	0	0	3	3	60	61
North Carolina	667	646	3.3%	638	623	29	23	43	33	587	580	18	20	8	9	10	11	1	1	0	0	1	1	18	11
South Carolina	142	90	58.5%	112	62	31	28	NM	NM	110	61	6	7	0	0	6	7	NM	NM	NM	3	2	21	19	
Virginia	107	82	30.9%	91	71	16	10	43	17	48	53	NM	NM	NM	NM	5	3	0	0	0	0	0	0	11	7
West Virginia	1	1	28.1%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
East South Central	105	105	0.3%	90	91	15	13	5	6	84	84	NM	NM	NM	NM	9	9	NM	NM	NM	0	0	5	4	

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

	All Sectors						Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector		
				Electric Utilities		Independent Power Producers																			
	Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities	Estimated Small Scale Generation	Generation at Utility Scale Facilities	Generation at Utility Scale Facilities	Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities	Estimated Small Scale Generation	Estimated Generation From Utility and Small Scale Facilities		Generation at Utility Scale Facilities	Estimated Small Scale Generation	Estimated Small Scale Generation										
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD		
New England	1,170	975	20.0%	370	308	800	667	38	25	328	279	445	369	3	3	442	366	37	28	NM	NM	36	27	323	274
Connecticut	196	154	27.3%	48	34	149	120	1	1	45	32	59	48	NM	NM	57	47	9	6	NM	NM	9	6	83	67
Maine	20	17	20.2%	2	2	18	15	0	0	2	2	6	6	0	0	6	6	0	0	0	0	0	0	12	9
Massachusetts	762	671	13.6%	259	228	504	443	24	18	232	207	309	275	NM	NM	307	273	25	20	NM	NM	24	19	172	151
New Hampshire	33	26	25.3%	0	0	33	26	0	0	0	0	11	8	0	0	11	8	2	2	0	0	2	2	20	17
Rhode Island	85	44	91.8%	21	12	63	32	0	0	21	12	47	20	0	0	47	20	0	0	0	0	0	0	16	12
Vermont	74	63	18.1%	40	32	34	30	13	7	27	26	13	11	0	0	13	11	1	0	0	0	1	0	20	18
Middle Atlantic	1,577	1,255	25.7%	482	350	1,095	905	15	15	432	301	546	436	31	31	515	405	66	51	5	4	61	47	519	453
New Jersey	789	677	16.5%	264	225	524	452	15	15	221	183	279	246	27	27	252	220	45	32	NM	NM	44	31	229	201
New York	645	467	38.1%	191	108	455	359	0	0	186	104	228	156	3	3	225	153	5	5	NM	NM	4	4	227	202
Pennsylvania	143	111	29.0%	27	17	116	94	0	0	25	14	40	33	NM	NM	39	32	15	14	NM	NM	14	13	63	49
East North Central	369	264	39.9%	173	145	196	119	57	46	112	94	102	75	4	4	98	71	11	6	0	0	11	6	88	43
Illinois	80	40	101.6%	13	12	68	28	0	0	12	11	37	17	NM	NM	37	17	0	0	0	0	0	0	31	11
Indiana	107	88	22.3%	76	64	31	24	39	27	36	37	18	17	NM	NM	17	16	1	1	0	0	1	1	13	7
Michigan	59	50	16.8%	31	32	28	18	16	17	15	14	12	10	NM	NM	12	9	1	1	0	0	1	1	16	9
Ohio	82	60	35.6%	38	28	44	32	NM	NM	35	25	23	NM	NM	24	22	6	2	0	0	5	1	15	9	
Wisconsin	41	25	59.7%	15	8	25	17	0	0	14	7	10	8	NM	NM	8	7	4	3	0	0	4	3	13	7
West North Central	526	399	31.9%	379	287	147	113	5	4	375	282	66	53	0	0	66	53	6	4	0	0	6	4	75	55
Iowa	42	32	32.5%	4	2	38	30	NM	NM	23	19	0	0	23	19	1	1	0	0	1	1	14	10		
Kansas	14	10	38.7%	4	2	10	8	NM	NM	4	4	3	0	0	4	3	0	0	0	0	0	0	6	5	
Minnesota	365	273	33.7%	344	256	21	18	NM	NM	344	255	5	6	0	0	5	6	3	2	0	0	3	2	14	10
Missouri	94	75	25.5%	20	20	73	54	1	1	19	19	33	25	0	0	33	25	1	1	0	0	1	1	39	29
Nebraska	11	9	19.9%	7	6	4	3	NM	NM	5	5	1	1	0	0	1	1	0	0	0	0	0	0	2	2
North Dakota	0	0	21.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	1	1	10.7%	NM	NM	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	4,916	3,612	36.1%	4,171	3,023	744	589	1,431	910	2,710	2,084	201	188	29	27	173	161	84	75	NM	NM	83	74	489	354
Delaware	39	35	10.1%	11	10	28	25	NM	NM	10	9	8	7	0	0	8	7	2	2	0	0	2	2	18	16
District of Columbia	28	20	43.1%	NM	NM	25	17	0	0	NM	NM	12	9	0	0	12	9	0	0	0	0	0	0	0	8
Florida	1,502	975	53.9%	1,279	837	223	138	1,149	730	127	105	36	31	2	2	34	29	4	3	NM	NM	3	3	186	107
Georgia	727	453	60.3%	655	387	72	67	63	62	592	325	10	10	NM	NM	10	9	57	54	0	0	57	54	5	4
Maryland	319	283	12.4%	115	95	203	189	NM	NM	110	90	59	57	4	4	55	53	8	8	0	0	8	8	140	127
North Carolina	1,691	1,454	16.3%	1,617	1,397	74	57	110	76	1,486	1,300	47	49	21	21	26	28	3	2	0	0	3	2	45	28
South Carolina	345	203	69.5%	266	135	79	68	NM	NM	263	134	16	17	0	0	16	17	10	6	NM	NM	9	6	54	45
Virginia	263	185	42.2%	226</td																					

**Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, March 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								
March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019						
New England	0	0	--	0	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0	0
East North Central	18	0	--	0	0	18	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0	0
Ohio	18	0	--	0	0	18	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0	0
South Atlantic	3	4	-14.0%	3	4	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0	0
Florida	3	4	-14.0%	3	4	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0	0
Mountain	61	91	-33.5%	0	0	61	91	0	0	0	0	0
Arizona	54	62	-12.5%	0	0	54	62	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0	0
Nevada	6	29	-78.2%	0	0	6	29	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0	0
Pacific Contiguous	129	165	-22.1%	0	0	129	165	0	0	0	0	0
California	129	165	-22.1%	0	0	129	165	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0	0
U.S. Total	210	260	-19.2%	3	4	207	256	0	0	0	0	0

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

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 March 2020 and 2019 (Thousand Megawatthours)**

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
				Generation at Utility Scale Facilities		Generation at Utility Scale Facilities				Generation at Utility Scale Facilities	
Census Division and State	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 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	42	0	--	0	0	42	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	42	0	--	0	0	42	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	7	9	-21.8%	7	9	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	7	9	-21.8%	7	9	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	155	181	-14.4%	0	0	155	181	0	0	0	0
Arizona	140	118	18.7%	0	0	140	118	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	63	-76.7%	0	0	15	63	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	315	313	0.9%	0	0	315	313	0	0	0	0
California	315	313	0.9%	0	0	315	313	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	519	502	3.5%	7	9	512	493	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-March 2020 (Thousand Tons)**

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	155,112	114,076	40,299	28	709
2019	144,925	106,336	37,974	26	589
2020	97,585	72,394	24,630	20	541
<b>Rolling 12 Months Ending in March</b>					
2019	626,026	465,877	157,650	85	2,413
2020	491,126	364,729	124,116	71	2,210

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-March 2020 (Thousand Tons)**

Period	Total (all sectors)	Electric Power Sector			
		Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	1,047	164	53	35	795
February	1,002	150	51	40	761
March	926	135	40	34	716
<b>Year to Date</b>					
2018	3,973	655	390	165	2,764
2019	3,571	615	366	138	2,451
2020	2,975	449	145	109	2,272
<b>Rolling 12 Months Ending in March</b>					
2019	13,411	2,228	1,333	464	9,387
2020	12,124	2,027	869	419	8,808

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–March 2020 (Thousand Tons)**

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	159,085	114,731	40,689	192	3,473
2019	148,496	106,951	38,340	165	3,039
2020	100,561	72,843	24,775	130	2,813
<b>Rolling 12 Months Ending in March</b>					
2019	639,437	468,105	158,983	549	11,800
2020	503,250	366,756	124,985	491	11,018

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–March 2020 (Thousand Barrels)**

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	1,711	1,385	269	21	34
February	1,396	1,115	233	12	35
March	1,330	947	335	17	32
<b>Year to Date</b>					
2018	12,416	6,682	5,479	92	163
2019	5,283	3,696	1,411	52	124
2020	4,437	3,447	838	50	102
<b>Rolling 12 Months Ending in March</b>					
2019	21,481	15,358	5,399	229	495
2020	19,584	14,671	4,233	244	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.

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–March 2020 (Thousand Barrels)**

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	138	4	11	25	99
February	128	4	11	17	96
March	119	3	13	19	84
<b>Year to Date</b>					
2018	1,036	66	157	155	658
2019	733	32	87	101	513
2020	385	10	35	61	279
<b>Rolling 12 Months Ending in March</b>					
2019	2,311	69	284	296	1,662
2020	1,936	49	198	365	1,324

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–March 2020 (Thousand Barrels)**

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	1,849	1,389	281	46	133
February	1,524	1,119	244	29	132
March	1,449	949	348	36	116
<b>Year to Date</b>					
2018	13,452	6,748	5,636	247	822
2019	6,016	3,727	1,499	152	638
2020	4,822	3,457	873	111	380
<b>Rolling 12 Months Ending in March</b>					
2019	23,792	15,427	5,683	525	2,157
2020	21,521	14,720	4,431	609	1,761

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 2.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2010–March 2020 (Thousand Tons)**

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	285	204	66	0	15
February	174	147	14	0	13
March	273	210	50	0	13
<b>Year to Date</b>					
2018	937	728	169	1	39
2019	878	674	166	1	38
2020	732	561	130	1	41
<b>Rolling 12 Months Ending in March</b>					
2019	3,564	2,687	700	2	176
2020	2,660	1,953	520	1	185

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

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–March 2020 (Thousand Tons)**

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	78	1	9	2	65
February	48	1	9	1	36
March	41	1	9	0	31
<b>Year to Date</b>					
2018	238	3	26	5	204
2019	216	4	24	4	184
2020	167	4	27	3	133
<b>Rolling 12 Months Ending in March</b>					
2019	907	12	91	10	794
2020	817	17	96	5	699

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

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

Values for 2018 and prior years are final. Values for 2019 and 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases. See the Technical Notes for fuel conversion factors.

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

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

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

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	363	205	76	2	80
February	222	148	23	1	50
March	314	211	59	0	44
<b>Year to Date</b>					
2018	1,175	731	196	6	242
2019	1,094	678	190	5	221
2020	899	564	157	4	174
<b>Rolling 12 Months Ending in March</b>					
2019	4,471	2,699	791	12	970
2020	3,476	1,970	616	6	884

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-March 2020 (Million Cubic Feet)**

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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	10,831,757	5,551,181	4,662,649	52,650	565,276
2019	11,550,825	5,958,855	4,958,970	53,622	579,377
<b>Year 2018</b>					
January	805,825	425,891	327,248	4,145	48,542
February	706,426	363,824	296,205	3,886	42,511
March	772,354	395,826	329,057	4,071	43,400
April	722,596	372,401	303,312	3,616	43,268
May	868,454	459,568	358,973	4,201	45,712
June	973,867	520,305	401,965	4,633	46,963
July	1,245,494	639,299	549,392	5,518	51,285
August	1,208,757	605,610	545,979	5,593	51,575
Sept	1,051,806	530,570	468,661	4,838	47,737
October	909,209	457,374	400,209	4,290	47,335
November	784,558	395,480	337,206	3,760	48,112
December	782,411	385,034	344,443	4,098	48,836
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	2,284,605	1,185,541	952,510	12,101	134,453
2019	2,469,554	1,253,880	1,061,043	12,978	141,653
2020	2,754,639	1,430,741	1,161,206	12,769	149,923
<b>Rolling 12 Months Ending in March</b>					
2019	11,016,706	5,619,520	4,771,182	53,527	572,477
2020	11,835,909	6,135,716	5,059,133	53,413	587,647

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	302,219	10,852	83,650	20,967	186,751
2019	318,345	11,485	88,604	21,419	196,837
2020	322,576	11,865	89,526	21,008	200,177
<b>Rolling 12 Months Ending in March</b>					
2019	1,222,088	43,790	336,906	82,308	759,084
2020	1,243,759	47,173	343,730	80,133	772,723

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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	12,037,719	5,594,338	4,994,602	134,507	1,314,273
2019	12,790,352	6,005,649	5,301,778	134,166	1,348,760
<b>Year 2018</b>					
January	913,039	429,820	356,182	11,562	115,475
February	801,220	367,190	322,834	10,592	100,604
March	872,566	399,383	357,145	10,914	105,124
April	815,529	375,343	328,576	9,750	101,860
May	963,161	462,873	385,211	10,300	104,776
June	1,070,883	523,947	428,607	11,170	107,159
July	1,352,497	643,783	579,731	13,167	115,816
August	1,314,686	609,689	575,840	13,285	115,872
Sept	1,151,095	534,049	495,750	11,419	109,877
October	1,008,254	460,387	427,427	10,702	109,738
November	886,403	398,665	364,286	10,589	112,863
December	888,387	389,208	373,012	11,058	115,109
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	2,586,825	1,196,393	1,036,160	33,068	321,203
2019	2,787,899	1,265,366	1,149,646	34,396	338,490
2020	3,077,215	1,442,606	1,250,732	33,777	350,100
<b>Rolling 12 Months Ending in March</b>					
2019	12,238,793	5,663,310	5,108,088	135,835	1,331,560
2020	13,079,668	6,182,889	5,402,863	133,546	1,360,369

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-March 2020 (Million Cubic Feet)**

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	69,310	6,951	56,479	4,941	939
2019	60,817	4,810	50,560	4,676	771
2020	60,935	4,944	51,060	4,140	791
<b>Rolling 12 Months Ending in March</b>					
2019	261,742	21,439	217,594	19,526	3,184
2020	241,274	19,241	204,506	14,609	2,918

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	351	0	237	36	78
February	373	0	233	65	74
March	305	0	161	73	71
<b>Year to Date</b>					
2018	982	0	516	229	236
2019	1,115	0	673	231	211
2020	1,029	0	631	174	224
<b>Rolling 12 Months Ending in March</b>					
2019	3,755	0	2,023	912	819
2020	3,559	0	1,951	763	845

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	70,291	6,951	56,995	5,170	1,175
2019	61,933	4,811	51,233	4,907	982
2020	61,964	4,944	51,691	4,314	1,014
<b>Rolling 12 Months Ending in March</b>					
2019	265,497	21,439	219,617	20,438	4,003
2020	244,833	19,241	206,456	15,372	3,763

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

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

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

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

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	1,287	19	1,079	188	1
February	1,183	14	1,002	166	1
March	1,309	26	1,096	186	1
<b>Year to Date</b>					
2018	4,064	93	3,390	579	2
2019	3,675	69	3,064	540	2
2020	3,778	59	3,176	540	3
<b>Rolling 12 Months Ending in March</b>					
2019	16,394	443	13,534	2,409	9
2020	15,436	288	12,934	2,204	10

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

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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-March 2020 (Thousand Tons)**

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	139	0	73	53	13
February	133	0	69	47	16
March	131	0	62	54	15
<b>Year to Date</b>					
2018	514	0	188	285	40
2019	459	0	196	217	47
2020	403	0	204	154	45
<b>Rolling 12 Months Ending in March</b>					
2019	1,995	0	760	1,040	195
2020	1,520	0	751	584	185

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

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 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and****Useful Thermal Output, by Sector, 2010–March 2020 (Thousand Tons)**

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	1,426	19	1,152	240	14
February	1,316	14	1,071	214	17
March	1,439	26	1,158	240	16
<b>Year to Date</b>					
2018	4,578	93	3,578	864	43
2019	4,134	69	3,260	756	49
2020	4,181	59	3,381	694	47
<b>Rolling 12 Months Ending in March</b>					
2019	18,389	443	14,294	3,449	204
2020	16,956	288	13,685	2,788	196

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	93,477	12,904	38,174	141	42,258
2019	86,740	11,843	33,520	182	41,195
2020	82,813	9,436	31,853	121	41,403
<b>Rolling 12 Months Ending in March</b>					
2019	354,965	44,795	138,634	561	170,976
2020	341,597	41,570	133,449	522	166,056

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	233,172	2,670	6,222	1,420	222,859
2019	249,257	2,873	4,988	1,457	239,937
2020	218,582	2,503	5,883	1,291	208,905
<b>Rolling 12 Months Ending in March</b>					
2019	945,450	10,500	20,389	4,844	909,717
2020	940,069	10,293	22,523	4,802	902,450

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 2.7.C. Wood / Wood Waste Biomass: Consumption for Electricity Generation and****Useful Thermal Output, by Sector, 2010–March 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
Year to Date					
2018	326,649	15,574	44,396	1,561	265,118
2019	335,997	14,717	38,509	1,639	281,132
2020	301,395	11,939	37,736	1,412	250,308
Rolling 12 Months Ending in March					
2019	1,300,415	55,295	159,023	5,404	1,080,693
2020	1,281,666	51,863	155,973	5,324	1,068,506

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	March 2020	March 2019	Percentage Change	Electric Utilities		Independent Power Producers		March 2020	March 2019	March 2020	March 2019
New England	1	26	-95.0%	0	12	1	13	0	0	NM	NM
Connecticut	0	12	-100.0%	0	0	0	12	0	0	0	0
Maine	1	2	-40.0%	0	0	1	2	0	0	NM	NM
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	12	-100.0%	0	12	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	1,133	1,944	-42.0%	0	0	1,132	1,941	0	0	1	3
New Jersey	35	39	-10.0%	0	0	35	39	0	0	0	0
New York	40	27	44.0%	0	0	40	27	0	0	0	0
Pennsylvania	1,059	1,878	-44.0%	0	0	1,058	1,874	0	0	1	3
East North Central	6,101	10,700	-43.0%	3,889	6,314	2,156	4,327	1	2	55	57
Illinois	989	2,715	-64.0%	28	191	918	2,480	NM	1	43	42
Indiana	1,747	2,856	-39.0%	1,571	2,703	176	152	1	1	0	0
Michigan	1,162	1,992	-42.0%	1,144	1,989	17	1	0	0	2	2
Ohio	1,181	1,890	-38.0%	137	197	1,045	1,693	0	0	0	0
Wisconsin	1,021	1,247	-18.0%	1,010	1,233	0	0	0	0	11	14
West North Central	6,042	8,398	-28.0%	5,966	8,328	0	0	1	3	75	67
Iowa	305	1,133	-73.0%	266	1,095	0	0	1	2	37	36
Kansas	584	801	-27.0%	584	801	0	0	0	0	0	0
Minnesota	515	742	-31.0%	512	726	0	0	0	0	4	16
Missouri	1,999	2,592	-23.0%	1,999	2,592	0	0	0	1	0	0
Nebraska	912	1,113	-18.0%	881	1,100	0	0	0	0	31	13
North Dakota	1,618	1,834	-12.0%	1,616	1,832	0	0	0	0	3	2
South Dakota	109	183	-40.0%	109	183	0	0	0	0	0	0
South Atlantic	2,734	4,715	-42.0%	2,490	4,049	231	649	1	2	12	15
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	300	590	-49.0%	299	589	0	0	0	0	1	1
Georgia	323	868	-63.0%	320	865	0	0	0	0	3	3
Maryland	30	217	-86.0%	0	0	30	215	0	0	0	2
North Carolina	383	841	-54.0%	378	827	2	10	1	1	2	2
South Carolina	268	350	-23.0%	268	350	0	0	0	0	0	0
Virginia	86	131	-35.0%	79	112	0	12	0	0	6	7
West Virginia	1,345	1,718	-22.0%	1,146	1,305	199	412	0	0	0	0
East South Central	3,133	4,162	-25.0%	2,815	3,844	311	309	0	0	7	9
Alabama	786	976	-19.0%	786	975	0	0	0	0	0	1
Kentucky	1,517	2,077	-27.0%	1,517	2,077	0	0	0	0	0	0
Mississippi	403	394	2.4%	93	85	311	309	0	0	0	0
Tennessee	427	715	-40.0%	420	707	0	0	0	0	7	8
West South Central	4,495	7,029	-36.0%	2,109	3,641	2,381	3,383	0	0	6	6
Arkansas	838	1,045	-20.0%	672	853	166	192	0	0	0	0
Louisiana	131	408	-68.0%	79	165	52	242	0	0	0	0
Oklahoma	21	588	-96.0%	15	583	0	0	0	0	5	6
Texas	3,506	4,987	-30.0%	1,342	2,039	2,163	2,948	0	0	0	0
Mountain	4,912	6,421	-24.0%	4,214	5,356	690	1,057	0	0	8	8
Arizona	385	1,002	-62.0%	385	1,002	0	0	0	0	0	0
Colorado	961	1,215	-21.0%	961	1,214	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	611	952	-36.0%	26	27	585	925	0	0	NM	NM
Nevada	59	85	-31.0%	12	36	47	49	0	0	0	0
New Mexico	458	413	11.0%	458	413	0	0	0	0	0	0
Utah	740	919	-19.0%	722	880	18	39	0	0	0	0
Wyoming	1,697	1,835	-7.5%	1,650	1,783	40	44	0	0	8	7
Pacific Contiguous	249	533	-53.0%	80	91	164	436	0	0	6	6
California	5	5	-11.0%	0	0	0	0	0	0	5	5
Oregon	80	91	-12.0%	80	91	0	0	0	0	0	0
Washington	165	437	-62.0%	0	0	164	436	0	0	1	1
Pacific Noncontiguous	116	112	4.0%	39	NM	74	69	3	3	0	0
Alaska	54	53	3.3%	39	NM	NM	10	3	3	0	0
Hawaii	62	59	4.7%	0	0	62	59	0	0	0	0
U.S. Total	28,917	44,038	-34.0%	21,602	31,673	7,139	12,185	6	9	171	172

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 March 2020 and March 2019 (Thousand Tons)**

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	27	127	-79.0%	22	75	4	50	0	0	NM	1
Connecticut	0	46	-100.0%	0	0	0	46	0	0	0	0
Maine	5	6	-19.0%	0	0	4	4	0	0	NM	1
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	22	75	-71.0%	22	75	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	3,818	6,338	-40.0%	0	0	3,815	6,328	0	0	3	10
New Jersey	103	120	-14.0%	0	0	103	120	0	0	0	0
New York	64	141	-55.0%	0	0	64	141	0	0	0	0
Pennsylvania	3,651	6,076	-40.0%	0	0	3,648	6,067	0	0	3	10
East North Central	20,943	33,858	-38.0%	12,545	19,719	8,229	13,956	3	5	166	178
Illinois	4,008	9,023	-56.0%	281	611	3,594	8,280	2	3	131	129
Indiana	5,314	8,727	-39.0%	4,747	8,231	565	494	2	2	0	0
Michigan	3,707	6,063	-39.0%	3,652	6,023	51	33	0	0	3	7
Ohio	4,549	5,829	-22.0%	531	681	4,019	5,148	0	0	0	0
Wisconsin	3,365	4,215	-20.0%	3,334	4,173	0	0	0	0	32	42
West North Central	22,394	29,083	-23.0%	22,143	28,821	0	0	5	7	246	255
Iowa	1,805	3,992	-55.0%	1,682	3,873	0	0	4	5	119	114
Kansas	2,298	3,223	-29.0%	2,298	3,223	0	0	0	0	0	0
Minnesota	1,928	2,915	-34.0%	1,917	2,868	0	0	0	0	11	47
Missouri	7,418	9,100	-18.0%	7,418	9,098	0	0	1	1	0	0
Nebraska	3,125	3,674	-15.0%	3,018	3,588	0	0	0	0	107	86
North Dakota	5,495	5,679	-3.2%	5,487	5,670	0	0	0	0	8	8
South Dakota	324	501	-35.0%	324	501	0	0	0	0	0	0
South Atlantic	9,442	15,405	-39.0%	8,416	13,426	986	1,925	3	6	37	48
Delaware	0	25	-100.0%	0	0	0	25	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,131	1,940	-42.0%	1,129	1,937	0	0	0	0	2	4
Georgia	853	2,666	-68.0%	844	2,656	0	0	0	0	9	11
Maryland	142	646	-78.0%	0	0	142	641	0	0	0	5
North Carolina	1,255	2,119	-41.0%	1,236	2,086	9	21	3	5	7	7
South Carolina	1,079	1,457	-26.0%	1,079	1,456	0	0	0	0	0	1
Virginia	349	434	-20.0%	324	373	5	39	0	1	19	21
West Virginia	4,635	6,117	-24.0%	3,804	4,919	831	1,198	0	0	0	0
East South Central	10,082	13,216	-24.0%	9,290	12,553	766	635	0	0	26	29
Alabama	2,623	3,687	-29.0%	2,622	3,683	0	0	0	0	NM	4
Kentucky	5,241	6,843	-23.0%	5,241	6,843	0	0	0	0	0	0
Mississippi	941	824	14.0%	175	189	766	635	0	0	0	0
Tennessee	1,277	1,862	-31.0%	1,252	1,838	0	0	0	0	25	24
West South Central	13,456	22,822	-41.0%	5,675	12,385	7,764	10,411	0	0	18	26
Arkansas	1,886	3,641	-48.0%	1,378	3,078	506	560	0	0	2	3
Louisiana	336	1,339	-75.0%	284	782	52	557	0	0	0	0
Oklahoma	206	1,840	-89.0%	176	1,777	13	39	0	0	16	24
Texas	11,029	16,002	-31.0%	3,836	6,748	7,193	9,255	0	0	0	0
Mountain	15,943	21,890	-27.0%	13,839	18,759	2,078	3,106	0	0	26	25
Arizona	1,539	3,501	-56.0%	1,539	3,501	0	0	0	0	0	0
Colorado	3,140	3,902	-20.0%	3,140	3,902	0	0	0	0	0	1
Idaho	1	1	0.5%	0	0	0	0	0	0	1	1
Montana	1,835	2,769	-34.0%	54	77	1,779	2,690	0	0	2	1
Nevada	212	504	-58.0%	53	330	158	174	0	0	0	0
New Mexico	1,844	1,886	-2.3%	1,844	1,886	0	0	0	0	0	0
Utah	2,454	3,275	-25.0%	2,436	3,163	18	112	0	0	0	0
Wyoming	4,920	6,051	-19.0%	4,774	5,900	122	130	0	0	23	22
Pacific Contiguous	1,184	1,865	-37.0%	370	483	797	1,365	0	0	17	17
California	14	15	-4.8%	0	0	0	0	0	0	14	15
Oregon	370	483	-23.0%	370	483	0	0	0	0	0	0
Washington	799	1,367	-42.0%	0	0	797	1,365	0	0	3	2
Pacific Noncontiguous	295	321	-8.3%	94	115	191	198	9	9	0	0
Alaska	139	156	-11.0%	94	115	35	33	9	9	0	0
Hawaii	156	165	-5.6%	0	0	156	165	0	0	0	0
U.S. Total	97,585	144,925	-33.0%	72,394	106,336	24,630	37,974	20	26	541	589

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

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

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

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

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

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	30	33	-11.0%	NM	NM	25	23	2	3	1	2
Connecticut	NM	16	NM	NM	NM	NM	NM	NM	0	1	
Maine	2	3	-49.0%	0	0	1	3	0	0	1	NM
Massachusetts	NM	7	NM	NM	NM	NM	NM	NM	0	0	
New Hampshire	1	4	-65.0%	NM	2	NM	NM	1	2	0	0
Rhode Island	NM	3	NM	0	0	NM	NM	0	0	NM	NM
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	117	79	49.0%	NM	NM	83	59	NM	NM	2	4
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	84	32	165.0%	NM	NM	52	15	NM	NM	0	2
Pennsylvania	18	40	-54.0%	0	0	16	37	1	0	2	2
East North Central	57	82	-30.0%	42	50	15	31	0	1	0	1
Illinois	4	7	-48.0%	1	NM	3	6	NM	NM	0	0
Indiana	19	27	-30.0%	19	27	0	0	0	0	0	0
Michigan	14	15	-6.0%	14	14	0	0	0	1	0	NM
Ohio	14	27	-46.0%	2	NM	13	25	0	0	0	0
Wisconsin	NM	NM	NM	NM	NM	0	0	NM	0	0	0
West North Central	44	69	-36.0%	43	68	NM	NM	0	0	0	0
Iowa	NM	21	NM	NM	20	NM	NM	0	0	0	0
Kansas	17	7	154.0%	17	7	0	0	0	0	0	0
Minnesota	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Missouri	5	22	-75.0%	5	22	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	7	11	-42.0%	7	11	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	85	198	-57.0%	57	149	11	34	12	8	5	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	18	49	-63.0%	17	48	NM	NM	0	0	1	1
Georgia	7	19	-63.0%	4	13	NM	NM	NM	0	2	4
Maryland	NM	18	NM	NM	NM	NM	17	0	0	0	0
North Carolina	14	36	-60.0%	13	34	NM	NM	NM	NM	1	NM
South Carolina	8	19	-57.0%	7	18	0	0	0	0	1	1
Virginia	19	36	-47.0%	NM	20	3	9	12	7	1	0
West Virginia	12	16	-27.0%	12	16	0	0	0	0	0	0
East South Central	25	46	-45.0%	24	45	0	0	0	0	1	1
Alabama	2	2	-16.0%	1	2	NM	NM	0	0	0	1
Kentucky	7	13	-43.0%	7	13	0	0	0	0	0	0
Mississippi	1	4	-86.0%	1	4	0	0	0	0	0	0
Tennessee	16	26	-41.0%	15	26	0	0	0	0	0	0
West South Central	9	18	-50.0%	6	12	3	5	0	0	0	1
Arkansas	4	8	-50.0%	4	4	0	3	0	0	0	0
Louisiana	NM	NM	NM	NM	NM	0	0	0	0	0	0
Oklahoma	NM	2	NM	NM	2	0	0	0	0	0	0
Texas	5	9	-40.0%	2	6	3	2	0	0	0	0
Mountain	28	33	-16.0%	24	32	3	1	NM	NM	0	0
Arizona	6	6	0.9%	6	6	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	0
Idaho	0	0	121.0%	0	0	0	0	0	0	0	0
Montana	NM	3	NM	NM	3	2	NM	0	0	0	0
Nevada	2	2	35.0%	2	1	0	1	0	0	0	0
New Mexico	5	8	-33.0%	5	8	0	0	0	0	0	0
Utah	3	5	-30.0%	3	5	1	0	0	0	0	0
Wyoming	6	6	-0.6%	6	6	0	0	0	0	0	0
Pacific Contiguous	10	9	12.0%	6	NM	3	2	NM	NM	NM	2
California	7	6	15.0%	5	NM	2	1	0	0	NM	1
Oregon	NM	NM	NM	1	1	0	0	NM	NM	0	0
Washington	NM	2	NM	NM	1	1	0	0	0	NM	1
Pacific Noncontiguous	924	882	4.8%	712	693	189	166	2	2	22	21
Alaska	134	113	19.0%	129	108	0	0	NM	1	5	5
Hawaii	790	768	2.8%	583	585	189	166	2	2	17	16
U.S. Total	1,330	1,449	-8.2%	947	1,072	335	323	17	16	32	39

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

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

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

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	100	195	-49.0%	9	21	81	156	7	13	2	5
Connecticut	45	70	-36.0%	2	NM	43	64	NM	3	0	1
Maine	11	10	3.2%	0	0	8	6	1	2	2	3
Massachusetts	29	83	-65.0%	NM	NM	24	72	NM	2	0	1
New Hampshire	8	17	-55.0%	3	10	NM	NM	5	5	0	0
Rhode Island	NM	13	NM	0	0	NM	NM	0	1	NM	NM
Vermont	NM	NM	NM	NM	NM	0	0	0	0	0	0
Middle Atlantic	268	786	-66.0%	54	267	203	498	NM	NM	6	15
New Jersey	36	74	-51.0%	0	3	36	71	0	0	0	0
New York	154	537	-71.0%	54	264	96	260	NM	NM	2	9
Pennsylvania	78	174	-55.0%	0	0	72	167	1	2	4	5
East North Central	202	239	-15.0%	139	134	62	98	0	2	1	5
Illinois	14	20	-30.0%	3	NM	12	18	NM	NM	0	0
Indiana	63	67	-6.4%	62	64	0	0	0	0	0	3
Michigan	45	44	2.2%	45	42	0	0	0	1	0	0
Ohio	54	82	-34.0%	6	NM	47	75	0	0	0	1
Wisconsin	NM	26	NM	NM	NM	3	5	NM	1	0	0
West North Central	151	209	-28.0%	148	200	NM	NM	0	1	0	0
Iowa	24	37	-34.0%	23	36	1	1	0	0	0	0
Kansas	50	26	95.0%	50	26	0	0	0	0	0	0
Minnesota	NM	24	NM	NM	16	NM	NM	0	1	0	0
Missouri	29	74	-61.0%	29	74	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	19	31	-39.0%	19	31	0	0	0	0	0	0
South Dakota	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
South Atlantic	396	659	-40.0%	290	450	59	166	29	21	18	23
Delaware	NM	34	NM	0	0	NM	34	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	59	81	-27.0%	55	75	1	NM	0	0	3	4
Georgia	31	55	-44.0%	21	35	NM	9	0	1	8	11
Maryland	31	73	-57.0%	1	2	30	70	0	0	0	1
North Carolina	70	150	-54.0%	65	142	2	NM	NM	NM	3	3
South Carolina	33	55	-41.0%	31	50	0	2	0	NM	1	3
Virginia	72	163	-56.0%	30	98	11	44	28	20	3	1
West Virginia	88	47	86.0%	88	47	0	1	0	0	0	0
East South Central	98	146	-33.0%	95	141	1	2	0	0	2	4
Alabama	3	11	-76.0%	1	8	NM	1	0	0	1	2
Kentucky	34	45	-25.0%	34	45	0	0	0	0	0	0
Mississippi	4	7	-43.0%	4	7	0	0	0	0	0	1
Tennessee	57	83	-31.0%	56	81	0	0	0	0	1	1
West South Central	46	55	-17.0%	33	38	12	14	0	0	1	2
Arkansas	17	21	-20.0%	16	12	1	8	0	0	0	1
Louisiana	2	NM	NM	2	NM	0	0	0	0	0	0
Oklahoma	4	10	-60.0%	4	10	0	0	0	0	0	0
Texas	22	21	4.8%	11	13	11	6	0	0	1	1
Mountain	83	102	-19.0%	79	95	4	7	NM	NM	0	0
Arizona	18	29	-37.0%	18	29	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	0	0
Idaho	0	0	121.0%	0	0	0	0	0	0	0	0
Montana	NM	8	NM	NM	NM	2	5	0	0	0	0
Nevada	4	6	-39.0%	3	5	0	1	0	0	0	0
New Mexico	21	20	6.3%	21	20	0	0	0	0	0	0
Utah	13	13	-2.7%	12	13	1	0	0	0	0	0
Wyoming	19	16	20.0%	19	16	0	0	0	0	0	0
Pacific Contiguous	35	29	22.0%	22	17	9	6	NM	NM	3	5
California	23	21	10.0%	16	15	5	2	0	0	1	3
Oregon	NM	NM	NM	2	2	0	0	NM	NM	0	0
Washington	11	6	67.0%	NM	NM	4	4	0	0	2	2
Pacific Noncontiguous	3,059	2,863	6.8%	2,578	2,332	404	458	10	8	68	66
Alaska	469	397	18.0%	449	380	0	0	3	3	18	15
Hawaii	2,590	2,466	5.0%	2,129	1,952	404	458	7	5	51	51
U.S. Total	4,437	5,283	-16.0%	3,447	3,696	838	1,411	50	52	102	124

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

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

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 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	1	1	-61.0%	0	0	0	0	0	0	1	1
New Jersey	1	0	8.5%	0	0	0	0	0	0	1	0
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	72	94	-23.0%	32	45	34	44	0	0	5	4
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	34	47	-28.0%	29	42	0	0	0	0	5	4
Ohio	34	44	-22.0%	0	0	34	44	0	0	0	0
Wisconsin	4	3	25.0%	4	3	0	0	0	0	0	0
West North Central	1	0	129.0%	0	0	0	0	0	0	1	0
Iowa	1	0	129.0%	0	0	0	0	0	0	1	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	33	32	1.9%	30	30	0	0	0	0	NM	2
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	30	30	0.1%	30	30	0	0	0	0	0	0
Georgia	NM	2	NM	0	0	0	0	0	0	NM	2
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	151	123	23.0%	148	118	0	0	0	0	3	5
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	148	118	25.0%	148	118	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3	5	-30.0%	0	0	0	0	0	0	3	5
Mountain	16	16	1.2%	0	0	16	16	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	16	16	1.2%	0	0	16	16	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	273	266	2.5%	210	193	50	60	0	0	13	13

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

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 March 2020 and March 2019 (Thousand Tons)**

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 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	5	-63.0%	0	0	0	0	0	0	2	5
New Jersey	2	2	6.0%	0	0	0	0	0	0	2	2
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	3	-100.0%	0	0	0	0	0	0	0	3
East North Central	202	281	-28.0%	100	148	85	121	0	0	17	12
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	105	148	-29.0%	88	136	0	0	0	0	17	12
Ohio	85	121	-30.0%	0	0	85	121	0	0	0	0
Wisconsin	13	12	6.4%	13	12	0	0	0	0	0	0
West North Central	3	1	245.0%	0	0	0	0	1	1	3	0
Iowa	3	1	245.0%	0	0	0	0	1	1	3	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	159	137	16.0%	150	128	0	0	0	0	9	9
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	150	128	17.0%	150	128	0	0	0	0	0	0
Georgia	9	9	-1.4%	0	0	0	0	0	0	9	9
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	321	411	-22.0%	310	398	0	0	0	0	11	12
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	310	399	-22.0%	310	398	0	0	0	0	0	1
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	11	11	-3.9%	0	0	0	0	0	0	11	11
Mountain	45	44	0.9%	0	0	45	44	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	45	44	0.9%	0	0	45	44	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	732	878	-17.0%	561	674	130	166	1	1	41	38

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

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	22,647	26,901	-16.0%	NM	NM	21,210	25,718	469	441	874	670
Connecticut	11,989	10,462	15.0%	26	31	11,439	9,984	183	176	341	271
Maine	491	907	-46.0%	0	0	322	749	13	12	155	146
Massachusetts	4,649	9,517	-51.0%	NM	NM	4,089	9,124	254	234	237	122
New Hampshire	1,282	1,572	-18.0%	0	2	1,262	1,550	3	4	16	16
Rhode Island	4,236	4,440	-4.6%	0	0	4,098	4,311	16	14	123	NM
Vermont	1	3	-65.0%	1	2	0	0	0	1	0	0
Middle Atlantic	107,550	95,699	12.0%	5,833	6,237	99,913	87,612	585	628	1,220	1,221
New Jersey	16,148	19,537	-17.0%	NM	NM	15,804	19,167	51	68	188	189
New York	28,925	26,253	10.0%	5,728	6,123	22,356	19,262	490	496	350	372
Pennsylvania	62,477	49,909	25.0%	0	1	61,752	49,183	43	65	682	660
East North Central	99,822	87,182	14.0%	37,109	30,424	59,618	53,821	649	648	2,447	2,289
Illinois	12,912	9,304	39.0%	1,909	298	10,453	8,612	165	165	386	229
Indiana	18,836	17,736	6.2%	8,160	7,326	9,479	9,038	79	70	1,118	1,302
Michigan	20,919	18,183	15.0%	7,655	6,044	12,649	11,557	265	287	350	295
Ohio	32,414	30,427	6.5%	6,312	6,479	25,917	23,784	82	77	102	86
Wisconsin	14,741	11,532	28.0%	13,073	10,278	1,120	829	57	48	491	378
West North Central	16,482	15,996	3.0%	12,956	13,458	2,920	2,083	132	128	474	327
Iowa	2,369	3,719	-36.0%	2,112	3,488	0	NM	38	32	219	195
Kansas	2,727	1,172	133.0%	2,563	1,117	0	0	0	0	164	55
Minnesota	4,471	5,240	-15.0%	3,636	4,652	744	485	34	43	57	60
Missouri	4,190	4,061	3.2%	1,942	2,409	2,176	1,593	58	48	13	11
Nebraska	754	580	30.0%	751	576	0	0	3	4	0	0
North Dakota	1,107	735	51.0%	1,087	728	0	0	0	0	20	7
South Dakota	864	489	77.0%	864	489	0	0	0	0	0	0
South Atlantic	232,003	203,665	14.0%	192,223	168,487	36,321	31,676	783	954	2,676	2,547
Delaware	1,845	2,802	-34.0%	1	3	1,333	2,294	0	0	512	506
District of Columbia	24	65	-63.0%	0	0	0	0	24	65	0	0
Florida	110,809	95,366	16.0%	104,920	92,084	5,159	2,612	11	9	720	661
Georgia	28,502	25,164	13.0%	20,888	18,970	7,219	5,867	0	0	394	327
Maryland	9,873	11,014	-10.0%	2,016	3,627	7,185	6,557	653	790	19	41
North Carolina	26,834	25,227	6.4%	21,901	20,290	4,768	4,783	85	79	81	75
South Carolina	14,823	11,188	32.0%	14,406	10,614	315	509	0	0	102	64
Virginia	37,943	32,175	18.0%	28,075	22,708	9,166	8,829	11	11	692	627
West Virginia	1,350	664	103.0%	17	192	1,176	227	0	0	157	246
East South Central	71,868	78,033	-7.9%	50,842	51,693	19,703	25,009	96	81	1,228	1,250
Alabama	31,289	33,713	-7.2%	11,110	12,086	19,604	21,001	0	0	575	625
Kentucky	4,423	9,127	-52.0%	4,254	8,613	83	428	0	0	86	87
Mississippi	27,428	24,371	13.0%	27,241	20,612	3	3,566	0	0	184	193
Tennessee	8,727	10,821	-19.0%	8,235	10,383	12	13	96	81	383	345
West South Central	209,462	181,933	15.0%	89,689	68,665	86,329	81,370	351	425	33,094	31,472
Arkansas	9,933	9,749	1.9%	9,176	8,923	631	638	NM	NM	93	155
Louisiana	42,616	35,496	20.0%	29,219	20,603	1,001	1,701	70	59	12,326	13,134
Oklahoma	26,636	20,799	28.0%	18,457	13,577	7,861	6,885	0	0	319	337
Texas	130,277	115,888	12.0%	32,837	25,563	76,836	72,147	248	333	20,356	17,845
Mountain	65,430	62,396	4.9%	53,178	48,486	10,935	12,572	173	194	1,145	1,143
Arizona	21,166	23,036	-8.1%	16,991	17,807	4,127	5,179	48	50	0	0
Colorado	12,709	9,693	31.0%	10,450	7,366	2,226	2,298	0	0	33	29
Idaho	2,580	1,531	69.0%	1,363	334	1,145	1,139	15	13	57	45
Montana	380	349	9.0%	307	229	71	119	0	0	2	NM
Nevada	15,138	13,381	13.0%	13,908	12,079	950	1,002	18	24	262	276
New Mexico	8,349	7,060	18.0%	5,823	4,228	2,372	2,788	35	44	119	0
Utah	4,272	6,812	-37.0%	3,946	6,236	42	45	57	64	227	467
Wyoming	836	535	56.0%	390	206	1	3	0	0	445	326
Pacific Contiguous	72,058	61,756	17.0%	30,745	25,519	34,956	29,807	784	832	5,573	5,598
California	48,025	42,584	13.0%	16,497	15,776	25,334	20,483	754	809	5,440	5,515
Oregon	14,465	13,071	11.0%	6,983	6,177	7,397	6,837	21	16	64	41
Washington	9,567	6,102	57.0%	7,266	3,565	2,224	2,488	8	7	69	42
Pacific Noncontiguous	2,639	2,392	10.0%	2,613	2,365	0	0	0	0	25	27
Alaska	2,639	2,392	10.0%	2,613	2,365	0	0	0	0	25	27
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	899,962	815,951	10.0%	475,282	415,407	371,903	349,668	4,021	4,332	48,756	46,544

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.

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

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	83,763	80,855	3.6%	NM	NM	79,666	77,260	1,445	1,376	2,437	2,032
Connecticut	38,731	32,485	19.0%	63	87	37,073	30,981	565	544	1,030	873
Maine	1,861	2,858	-35.0%	0	0	1,315	2,439	38	36	508	383
Massachusetts	24,603	30,467	-19.0%	NM	NM	23,200	29,275	788	741	471	361
New Hampshire	4,801	3,464	39.0%	3	6	4,741	3,400	8	13	49	45
Rhode Island	13,761	11,575	19.0%	0	0	13,337	11,165	45	40	379	370
Vermont	5	6	-14.0%	4	4	0	0	1	2	0	0
Middle Atlantic	336,293	294,390	14.0%	19,789	19,798	310,839	268,937	1,896	1,923	3,769	3,731
New Jersey	49,691	60,527	-18.0%	NM	NM	48,632	59,585	205	185	589	526
New York	90,146	82,296	9.5%	19,524	19,554	68,019	60,154	1,536	1,548	1,068	1,040
Pennsylvania	196,456	151,566	30.0%	1	12	194,188	149,199	155	190	2,112	2,165
East North Central	311,831	259,300	20.0%	117,685	89,450	184,845	160,770	2,018	1,912	7,283	7,167
Illinois	38,998	27,577	41.0%	5,957	875	31,418	25,251	528	470	1,095	981
Indiana	59,427	54,165	9.7%	25,740	22,115	29,923	28,068	239	199	3,525	3,782
Michigan	72,143	55,090	31.0%	28,674	17,349	41,669	35,967	832	839	968	935
Ohio	96,825	88,973	8.8%	16,743	18,182	79,535	70,215	255	264	292	312
Wisconsin	44,438	33,494	33.0%	40,571	30,929	2,300	1,268	164	141	1,403	1,157
West North Central	56,726	46,085	23.0%	46,628	38,957	8,487	5,687	408	412	1,203	1,029
Iowa	11,588	11,034	5.0%	10,889	10,312	0	NM	124	114	576	595
Kansas	5,645	3,848	47.0%	5,272	3,662	0	0	0	0	373	186
Minnesota	17,216	15,458	11.0%	14,648	13,578	2,286	1,536	123	162	159	182
Missouri	13,415	10,510	28.0%	7,019	6,208	6,201	4,138	151	128	44	36
Nebraska	2,472	1,396	77.0%	2,463	1,389	0	0	10	7	0	0
North Dakota	3,460	2,282	52.0%	3,408	2,252	0	0	0	0	52	30
South Dakota	2,930	1,556	88.0%	2,930	1,556	0	0	0	0	0	0
South Atlantic	679,610	606,529	12.0%	563,885	508,083	105,146	88,504	2,598	2,827	7,982	7,115
Delaware	5,716	6,123	-6.6%	4	6	4,230	4,784	0	0	1,482	1,333
District of Columbia	148	179	-17.0%	0	0	0	0	148	179	0	0
Florida	304,936	271,619	12.0%	289,240	261,279	13,523	8,312	32	29	2,141	2,000
Georgia	96,292	84,467	14.0%	75,032	66,715	20,145	16,868	0	0	1,115	884
Maryland	26,561	27,670	-4.0%	6,069	9,218	18,335	15,986	2,108	2,357	48	110
North Carolina	85,591	77,008	11.0%	70,912	62,666	14,164	13,894	277	239	238	209
South Carolina	43,128	35,733	21.0%	41,949	34,149	877	1,381	0	0	302	204
Virginia	114,555	102,164	12.0%	80,649	73,596	31,830	26,686	33	23	2,043	1,858
West Virginia	2,684	1,566	71.0%	31	454	2,041	594	0	0	612	518
East South Central	230,629	216,925	6.3%	164,750	148,040	61,852	64,948	294	259	3,733	3,677
Alabama	88,455	87,456	1.1%	28,903	31,414	57,704	54,211	0	0	1,848	1,831
Kentucky	20,332	24,826	-18.0%	19,791	23,448	280	1,123	0	0	260	255
Mississippi	92,019	74,703	23.0%	87,626	64,561	3,825	9,577	0	0	568	564
Tennessee	29,823	29,940	-0.4%	28,430	28,617	43	38	294	259	1,056	1,027
West South Central	636,914	568,879	12.0%	256,555	212,926	275,125	257,437	1,181	1,249	104,053	97,267
Arkansas	30,357	31,058	-2.3%	28,090	28,647	1,868	1,874	NM	NM	292	436
Louisiana	123,344	108,950	13.0%	78,795	62,770	4,881	5,631	210	180	39,459	40,369
Oklahoma	85,196	68,114	25.0%	54,735	43,587	29,545	23,665	0	0	916	862
Texas	398,017	360,758	10.0%	94,935	77,922	238,831	226,268	864	967	63,387	55,601
Mountain	207,441	186,026	12.0%	165,215	147,679	38,422	34,445	562	574	3,242	3,328
Arizona	74,014	64,423	15.0%	55,022	51,283	18,851	12,987	141	153	0	0
Colorado	34,865	30,115	16.0%	29,447	24,496	5,298	5,526	27	7	93	86
Idaho	9,034	7,057	28.0%	5,141	3,381	3,670	3,483	45	40	178	153
Montana	1,080	1,510	-28.0%	930	910	140	591	0	0	9	8
Nevada	44,514	40,455	10.0%	40,350	36,177	3,515	3,564	61	65	588	648
New Mexico	24,796	22,094	12.0%	17,746	13,808	6,812	8,157	117	129	121	0
Utah	16,738	18,730	-11.0%	15,504	17,035	130	131	171	180	933	1,384
Wyoming	2,401	1,643	46.0%	1,075	588	8	6	0	0	1,319	1,049
Pacific Contiguous	203,017	203,228	-0.1%	87,665	81,501	96,823	103,054	2,368	2,446	16,162	16,228
California	137,188	144,369	-5.0%	48,355	51,065	70,767	74,958	2,295	2,371	15,771	15,975
Oregon	40,574	39,123	3.7%	20,673	17,960	19,653	20,982	61	54	185	126
Washington	25,256	19,736	28.0%	18,636	12,476	6,403	7,113	12	21	205	127
Pacific Noncontiguous	8,414	7,338	15.0%	8,355	7,259	0	0	0	0	59	79
Alaska	8,414	7,338	15.0%	8,355	7,259	0	0	0	0	59	79</

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

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	899	875	2.8%	0	0	879	853	21	22	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	53	55	-3.6%	0	0	53	55	0	0	0	0
Massachusetts	314	313	0.5%	0	0	314	313	0	0	0	0
New Hampshire	90	93	-3.9%	0	0	69	71	21	22	0	0
Rhode Island	408	371	9.9%	0	0	408	371	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	3,903	4,104	-4.9%	0	0	3,777	3,941	NM	NM	85	108
New Jersey	426	616	-31.0%	0	0	413	599	NM	NM	0	0
New York	1,311	1,296	1.2%	0	0	1,311	1,296	0	0	0	0
Pennsylvania	2,166	2,193	-1.2%	0	0	2,053	2,046	NM	NM	85	108
East North Central	5,037	5,176	-2.7%	770	790	4,213	4,322	32	42	21	22
Illinois	867	866	0.1%	205	219	662	647	0	0	0	0
Indiana	663	669	-0.8%	565	572	98	98	0	0	0	0
Michigan	1,735	1,756	-1.2%	0	0	1,735	1,756	0	0	0	0
Ohio	899	969	-7.2%	0	0	899	969	0	0	0	0
Wisconsin	872	916	-4.7%	0	0	819	851	32	42	21	22
West North Central	773	733	5.4%	242	287	530	446	0	0	0	0
Iowa	216	142	53.0%	0	0	216	142	0	0	0	0
Kansas	123	119	3.3%	0	0	123	119	0	0	0	0
Minnesota	173	180	-3.8%	57	68	117	112	0	0	0	0
Missouri	143	159	-10.0%	68	85	74	74	0	0	0	0
Nebraska	117	133	-12.0%	117	133	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	4,068	4,152	-2.0%	370	368	3,476	3,523	NM	117	148	145
Delaware	92	95	-3.2%	0	0	82	85	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	829	795	4.3%	166	139	663	656	0	0	0	0
Georgia	530	582	-8.9%	0	0	517	577	0	0	13	5
Maryland	174	216	-20.0%	0	0	132	134	NM	83	0	0
North Carolina	874	870	0.5%	0	0	860	853	NM	NM	0	0
South Carolina	354	382	-7.3%	199	222	NM	NM	0	0	NM	130
Virginia	1,215	1,213	0.2%	5	7	1,193	1,189	NM	NM	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	423	426	-0.5%	178	177	245	249	0	0	0	0
Alabama	66	66	0.0%	0	0	66	66	0	0	0	0
Kentucky	195	200	-2.2%	178	177	17	23	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	142	140	1.3%	0	0	142	140	0	0	0	0
West South Central	878	1,024	-14.0%	0	0	878	969	0	55	0	0
Arkansas	93	93	0.4%	0	0	93	93	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	NM	NM	0	0	NM	NM	0	0	0	0
Texas	747	894	-16.0%	0	0	747	839	0	55	0	0
Mountain	457	489	-6.7%	NM	NM	384	438	50	28	0	0
Arizona	74	72	2.3%	0	0	74	72	0	0	0	0
Colorado	83	81	3.0%	0	0	83	81	0	0	0	0
Idaho	49	NM	NM	NM	NM	NM	NM	19	2	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	127	131	-3.1%	0	0	127	131	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	114	156	-27.0%	0	0	83	131	31	26	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,394	4,417	-0.5%	164	105	3,081	3,117	1,150	1,195	0	0
California	3,838	3,892	-1.4%	NM	NM	2,664	2,723	1,116	1,162	0	0
Oregon	459	428	7.2%	105	98	320	297	NM	NM	0	0
Washington	97	97	-0.1%	0	0	97	97	0	0	0	0
Pacific Noncontiguous	63	64	-1.4%	0	0	0	0	63	64	0	0
Alaska	63	64	-1.4%	0	0	0	0	63	64	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	20,895	21,461	-2.6%	1,747	1,750	17,464	17,858	1,431	1,578	253	275

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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.B. Consumption of Landfill Gas for Electricity Generation by State, by Sector, Year-to-Date through March 2020 and March 2019 (Million Cubic Feet)**

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	2,606	2,408	8.2%	0	0	2,558	2,342	48	65	0	0
Connecticut	53	NM	NM	0	0	53	NM	0	0	0	0
Maine	152	148	2.8%	0	0	152	148	0	0	0	0
Massachusetts	917	881	4.0%	0	0	917	881	0	0	0	0
New Hampshire	249	261	-4.7%	0	0	201	196	48	65	0	0
Rhode Island	1,179	1,004	17.0%	0	0	1,179	1,004	0	0	0	0
Vermont	57	NM	NM	0	0	57	NM	0	0	0	0
Middle Atlantic	11,466	11,640	-1.5%	0	0	11,062	11,226	NM	149	276	264
New Jersey	1,345	1,704	-21.0%	0	0	1,304	1,660	NM	NM	0	0
New York	3,804	3,680	3.4%	0	0	3,804	3,680	0	0	0	0
Pennsylvania	6,317	6,255	1.0%	0	0	5,954	5,887	NM	104	276	264
East North Central	14,401	14,445	-0.3%	2,252	2,213	11,996	12,055	86	111	67	67
Illinois	2,537	2,436	4.2%	607	588	1,930	1,848	0	0	0	0
Indiana	1,922	1,903	1.0%	1,645	1,625	277	277	0	0	0	0
Michigan	4,932	4,875	1.2%	0	0	4,932	4,875	0	0	0	0
Ohio	2,440	2,758	-12.0%	0	0	2,440	2,758	0	0	0	0
Wisconsin	2,570	2,474	3.9%	0	0	2,417	2,297	86	111	67	67
West North Central	2,259	2,148	5.2%	726	743	1,533	1,405	0	0	0	0
Iowa	615	528	17.0%	0	0	615	528	0	0	0	0
Kansas	360	343	4.8%	0	0	360	343	0	0	0	0
Minnesota	502	489	2.7%	161	164	341	325	0	0	0	0
Missouri	409	407	0.7%	193	198	217	208	0	0	0	0
Nebraska	372	381	-2.4%	372	381	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	12,017	11,714	2.6%	1,005	989	10,339	9,942	225	343	448	440
Delaware	265	259	2.2%	0	0	238	231	0	0	NM	28
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,349	2,277	3.2%	419	401	1,930	1,875	0	0	0	0
Georgia	1,601	1,583	1.1%	0	0	1,558	1,556	0	0	42	27
Maryland	510	614	-17.0%	0	0	383	370	NM	244	0	0
North Carolina	2,555	2,473	3.3%	0	0	2,511	2,426	NM	NM	0	0
South Carolina	1,035	1,034	0.1%	572	568	85	NM	0	0	379	385
Virginia	3,703	3,474	6.6%	14	20	3,635	3,402	NM	NM	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	1,229	1,187	3.5%	518	498	711	689	0	0	0	0
Alabama	191	184	3.9%	0	0	191	184	0	0	0	0
Kentucky	564	548	2.8%	518	498	45	50	0	0	0	0
Mississippi	60	NM	NM	0	0	60	NM	0	0	0	0
Tennessee	415	398	4.2%	0	0	415	398	0	0	0	0
West South Central	2,611	2,874	-9.1%	0	0	2,611	2,710	0	164	0	0
Arkansas	271	261	4.0%	0	0	271	261	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	112	107	4.4%	0	0	112	107	0	0	0	0
Texas	2,228	2,506	-11.0%	0	0	2,228	2,342	0	164	0	0
Mountain	1,343	1,441	-6.8%	65	NM	1,158	1,250	120	128	0	0
Arizona	215	206	4.5%	0	0	215	206	0	0	0	0
Colorado	243	233	4.7%	0	0	243	233	0	0	0	0
Idaho	127	125	1.4%	65	NM	NM	NM	39	38	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	367	356	3.0%	0	0	367	356	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	362	491	-26.0%	0	0	281	401	81	90	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	12,815	12,788	0.2%	378	304	9,093	8,940	3,344	3,544	0	0
California	11,156	11,265	-1.0%	73	NM	7,841	7,800	3,242	3,444	0	0
Oregon	1,377	1,252	10.0%	305	283	971	869	NM	100	0	0
Washington	282	271	3.8%	0	0	282	271	0	0	0	0
Pacific Noncontiguous	189	173	8.9%	0	0	0	0	189	173	0	0
Alaska	189	173	8.9%	0	0	0	0	189	173	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	60,935	60,817	0.2%	4,944	4,810	51,060	50,560	4,140	4,676	791	771

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

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	277	280	-1.3%	0	0	266	267	11	14	0	0
Connecticut	101	97	3.3%	0	0	101	97	0	0	0	0
Maine	19	21	-8.7%	0	0	8	7	11	14	0	0
Massachusetts	147	151	-3.1%	0	0	147	151	0	0	0	0
New Hampshire	10	11	-2.8%	0	0	10	11	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	422	382	11.0%	0	0	335	302	88	79	0	0
New Jersey	114	101	13.0%	0	0	85	75	29	26	0	0
New York	150	137	9.6%	0	0	111	99	39	39	0	0
Pennsylvania	158	143	10.0%	0	0	139	129	19	14	0	0
East North Central	13	16	-19.0%	3	3	0	0	10	13	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	2	1	38.0%	0	0	0	0	2	1	0	0
Michigan	8	12	-30.0%	0	0	0	0	8	12	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	4.2%	3	3	0	0	0	0	0	0
West North Central	43	29	47.0%	23	17	20	12	NM	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	43	29	47.0%	23	17	20	12	NM	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	448	431	4.0%	0	0	415	397	33	34	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	298	286	4.2%	0	0	298	286	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	52	51	2.6%	0	0	52	51	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	98	94	3.8%	0	0	65	60	33	34	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	-7.9%	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	-7.9%	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	60	59	2.2%	0	0	60	59	0	0	0	0
California	38	35	6.3%	0	0	38	35	0	0	0	0
Oregon	10	10	2.6%	0	0	10	10	0	0	0	0
Washington	13	14	-8.6%	0	0	13	14	0	0	0	0
Pacific Noncontiguous	44	39	11.0%	0	0	0	0	44	39	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	44	39	11.0%	0	0	0	0	44	39	0	0
U.S. Total	1,309	1,238	5.7%	26	20	1,096	1,037	186	180	1	1

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

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

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

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	806	788	2.3%	0	0	772	747	34	41	0	0
Connecticut	272	253	7.5%	0	0	272	253	0	0	0	0
Maine	60	68	-11.0%	0	0	26	27	34	41	0	0
Massachusetts	445	437	1.9%	0	0	445	437	0	0	0	0
New Hampshire	29	30	-4.2%	0	0	29	30	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	1,249	1,186	5.3%	0	0	987	942	261	244	0	0
New Jersey	325	309	5.2%	0	0	240	229	85	80	0	0
New York	454	425	6.9%	0	0	343	318	111	106	0	0
Pennsylvania	470	452	3.9%	0	0	405	394	65	58	0	0
East North Central	41	52	-22.0%	8	8	0	0	33	44	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	5	5	13.0%	0	0	0	0	5	5	0	0
Michigan	27	40	-31.0%	0	0	0	0	27	40	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	8	8	0.9%	8	8	0	0	0	0	0	0
West North Central	110	109	1.2%	51	61	59	48	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	110	109	1.2%	51	61	59	48	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,288	1,266	1.7%	0	0	1,188	1,166	100	100	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	894	842	6.1%	0	0	894	842	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	108	141	-24.0%	0	0	108	141	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	286	282	1.3%	0	0	186	182	100	100	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	3	2	17.0%	0	0	0	0	0	0	3	2
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	3	2	17.0%	0	0	0	0	0	0	3	2
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	170	162	4.6%	0	0	170	162	0	0	0	0
California	103	96	7.4%	0	0	103	96	0	0	0	0
Oregon	29	28	2.3%	0	0	29	28	0	0	0	0
Washington	38	38	-0.7%	0	0	38	38	0	0	0	0
Pacific Noncontiguous	112	110	2.5%	0	0	0	0	112	110	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	112	110	2.5%	0	0	0	0	112	110	0	0
U.S. Total	3,778	3,675	2.8%	59	69	3,176	3,064	540	540	3	2

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

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

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

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	2,985	3,745	-20.0%	192	472	2,328	2,798	1	1	464	473
Connecticut	213	249	-14.0%	0	0	213	249	0	0	0	0
Maine	1,199	1,568	-24.0%	0	0	735	1,095	0	0	464	473
Massachusetts	173	159	9.1%	0	0	173	159	0	0	0	0
New Hampshire	1,019	1,386	-27.0%	0	268	1,019	1,118	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	382	383	-0.3%	192	204	188	178	1	1	0	0
Middle Atlantic	776	778	-0.3%	0	0	492	489	0	0	284	288
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	569	578	-1.5%	0	0	492	489	0	0	77	88
Pennsylvania	206	200	3.2%	0	0	0	0	0	0	206	200
East North Central	1,616	1,979	-18.0%	268	384	763	967	0	0	585	628
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,023	1,272	-20.0%	0	0	756	955	0	0	267	317
Ohio	108	100	8.4%	0	0	6	12	0	0	102	87
Wisconsin	485	607	-20.0%	268	384	0	0	0	0	217	223
West North Central	490	550	-11.0%	65	87	120	119	19	59	287	285
Iowa	4	1	254.0%	0	0	0	0	4	1	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	472	527	-11.0%	65	87	120	119	0	36	287	285
Missouri	15	21	-30.0%	0	0	0	0	15	21	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	10,403	9,884	5.3%	1,899	2,229	3,048	2,229	12	12	5,444	5,414
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	1,456	1,469	-0.9%	502	561	162	141	0	0	791	767
Georgia	3,655	2,785	31.0%	0	0	1,469	649	0	0	2,186	2,136
Maryland	12	70	-83.0%	0	0	0	0	12	12	0	57
North Carolina	1,184	1,165	1.6%	0	0	643	653	0	0	542	512
South Carolina	1,393	1,437	-3.1%	139	159	515	489	0	0	739	789
Virginia	2,703	2,958	-8.6%	1,258	1,509	259	297	0	0	1,187	1,153
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,025	2,876	5.2%	0	0	0	127	0	0	3,025	2,750
Alabama	1,983	1,970	0.7%	0	0	0	127	0	0	1,983	1,843
Kentucky	136	131	4.3%	0	0	0	0	0	0	136	131
Mississippi	537	443	21.0%	0	0	0	0	0	0	537	443
Tennessee	369	334	10.0%	0	0	0	0	0	0	369	334
West South Central	1,810	2,506	-28.0%	0	0	0	295	0	0	1,810	2,212
Arkansas	339	598	-43.0%	0	0	0	0	0	0	339	598
Louisiana	954	1,081	-12.0%	0	0	0	0	0	0	954	1,081
Oklahoma	150	166	-9.6%	0	0	0	0	0	0	150	166
Texas	367	661	-45.0%	0	0	0	295	0	0	367	366
Mountain	568	528	7.6%	0	0	401	368	0	0	168	160
Arizona	260	238	8.9%	0	0	260	238	0	0	0	0
Colorado	116	110	5.7%	0	0	116	110	0	0	0	0
Idaho	171	158	7.9%	0	0	25	20	0	0	146	139
Montana	21	21	1.2%	0	0	0	0	0	0	21	21
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,455	5,273	3.5%	394	386	3,165	3,112	0	0	1,896	1,775
California	3,792	3,597	5.4%	0	0	2,962	2,876	0	0	830	720
Oregon	610	622	-2.0%	0	0	203	235	0	0	407	387
Washington	1,054	1,054	0.0%	394	386	0	0	0	0	660	668
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	27,129	28,118	-3.5%	2,818	3,557	10,317	10,504	32	72	13,963	13,984

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 March 2020 and March 2019 (Billion Btus)**

Census Division and State				Electric Power Sector							
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	9,999	12,723	-21.0%	1,206	2,164	7,403	9,211	3	3	1,387	1,345
Connecticut	696	808	-14.0%	0	0	696	808	0	0	0	0
Maine	3,819	4,996	-24.0%	0	0	2,433	3,651	0	0	1,387	1,345
Massachusetts	501	518	-3.3%	0	0	501	518	0	0	0	0
New Hampshire	3,480	4,801	-28.0%	259	1,153	3,221	3,648	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	1,503	1,599	-6.0%	947	1,010	553	586	3	3	0	0
Middle Atlantic	2,256	2,248	0.4%	0	0	1,413	1,406	0	0	843	842
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	1,651	1,657	-0.3%	0	0	1,413	1,406	0	0	238	251
Pennsylvania	605	591	2.3%	0	0	0	0	0	0	605	591
East North Central	5,327	6,178	-14.0%	947	1,188	2,630	3,142	0	0	1,750	1,847
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	3,405	4,052	-16.0%	0	0	2,605	3,106	0	0	800	946
Ohio	318	280	13.0%	0	0	25	36	0	0	293	244
Wisconsin	1,605	1,847	-13.0%	947	1,188	0	0	0	0	658	658
West North Central	1,436	1,510	-4.9%	226	265	360	349	80	141	771	754
Iowa	15	16	-5.9%	0	0	0	0	15	16	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	1,357	1,416	-4.2%	226	265	360	349	0	47	771	754
Missouri	65	78	-17.0%	0	0	0	0	65	78	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	30,982	30,120	2.9%	5,879	6,957	8,998	7,323	37	37	16,068	15,804
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,218	5,098	-17.0%	1,592	2,072	460	910	0	0	2,166	2,116
Georgia	10,457	8,234	27.0%	0	0	4,022	1,972	0	0	6,435	6,262
Maryland	37	190	-80.0%	0	0	0	0	37	37	0	153
North Carolina	3,830	3,442	11.0%	0	0	2,167	1,908	0	0	1,663	1,533
South Carolina	4,223	4,421	-4.5%	381	497	1,513	1,567	0	0	2,329	2,357
Virginia	8,217	8,736	-5.9%	3,906	4,388	837	965	0	0	3,474	3,384
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	9,057	8,725	3.8%	0	0	0	377	0	0	9,057	8,348
Alabama	5,886	5,877	0.1%	0	0	0	377	0	0	5,886	5,500
Kentucky	412	359	15.0%	0	0	0	0	0	0	412	359
Mississippi	1,624	1,455	12.0%	0	0	0	0	0	0	1,624	1,455
Tennessee	1,135	1,034	9.8%	0	0	0	0	0	0	1,135	1,034
West South Central	5,852	6,994	-16.0%	0	0	194	295	0	0	5,658	6,699
Arkansas	1,188	1,745	-32.0%	0	0	0	0	0	0	1,188	1,745
Louisiana	2,910	3,417	-15.0%	0	0	0	0	0	0	2,910	3,417
Oklahoma	467	434	7.6%	0	0	0	0	0	0	467	434
Texas	1,286	1,398	-8.0%	0	0	194	295	0	0	1,092	1,103
Mountain	1,647	1,593	3.4%	0	0	1,167	1,156	0	0	481	437
Arizona	753	788	-4.4%	0	0	753	788	0	0	0	0
Colorado	340	300	13.0%	0	0	340	300	0	0	0	0
Idaho	492	443	11.0%	0	0	74	68	0	0	418	375
Montana	62	62	1.1%	0	0	0	0	0	0	62	62
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	16,256	16,649	-2.4%	1,177	1,269	9,688	10,261	0	0	5,390	5,118
California	11,218	11,629	-3.5%	0	0	9,028	9,497	0	0	2,190	2,132
Oregon	1,899	1,816	4.5%	0	0	661	765	0	0	1,238	1,052
Washington	3,139	3,204	-2.0%	1,177	1,269	0	0	0	0	1,962	1,935
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	82,813	86,740	-4.5%	9,436	11,843	31,853	33,520	121	182	41,403	41,195

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 - March 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)
<b>End of Year Stocks</b>									
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	103,043	26,284	539	84,978	16,796	521	18,065	9,488	19
2019	128,497	25,976	443	104,344	16,642	429	24,153	9,333	14
<b>Year 2018, End of Month Stocks</b>									
January	123,692	26,205	720	104,185	17,932	579	19,508	8,273	141
February	120,945	27,179	692	101,922	18,489	561	19,023	8,691	131
March	126,422	27,104	736	106,761	18,569	612	19,660	8,534	124
April	128,965	26,943	731	108,237	18,499	647	20,728	8,444	84
May	128,356	27,128	709	107,525	18,578	648	20,831	8,550	61
June	121,394	26,820	591	101,828	18,219	526	19,567	8,601	65
July	110,677	26,233	668	93,408	17,665	614	17,269	8,568	53
August	104,048	25,128	625	88,230	16,849	580	15,818	8,279	45
Sept	100,680	24,905	608	84,975	16,623	557	15,705	8,283	51
October	105,134	24,897	541	87,656	16,425	511	17,478	8,472	30
November	104,336	25,023	557	86,496	16,353	540	17,840	8,669	16
December	103,043	26,284	539	84,978	16,796	521	18,065	9,488	19
<b>Year 2019, End of Month Stocks</b>									
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
<b>Year 2020, End of Month Stocks</b>									
January	134,402	25,340	521	108,369	16,375	518	26,033	8,965	2
February	139,558	26,269	615	112,442	17,374	599	27,116	8,895	16
March	145,451	25,392	537	116,736	16,402	523	28,715	8,990	14

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, March 2020 and 2019**

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	March 2020	March 2019	Percentage Change	March 2020	March 2019	Percentage Change	March 2020	March 2019	Percentage Change
New England	475	484	-1.8%	3,259	3,431	-5.0%	0	0	--
Connecticut	W	W	W	1,152	1,209	-4.7%	0	0	--
Maine	0	0	--	212	287	-26.1%	0	0	--
Massachusetts	0	W	W	1,333	1,336	-0.2%	0	0	--
New Hampshire	W	W	W	337	362	-6.9%	0	0	--
Rhode Island	0	W	W	200	196	2.5%	0	0	--
Vermont	0	0	--	24	42	-42.2%	0	0	--
Middle Atlantic	4,941	3,534	39.8%	5,046	5,291	-4.6%	0	0	--
New Jersey	W	W	W	679	655	3.6%	0	0	--
New York	0	W	W	3,097	3,278	-5.5%	0	0	--
Pennsylvania	W	3,330	W	1,270	1,358	-6.5%	0	0	--
East North Central	31,654	16,464	92.3%	1,081	1,066	1.4%	W	69	W
Illinois	6,118	4,142	47.7%	68	75	-8.9%	0	0	--
Indiana	10,432	6,107	70.8%	123	90	37.9%	0	W	W
Michigan	4,651	1,837	153.1%	274	290	-5.4%	W	W	W
Ohio	7,312	2,541	187.8%	445	409	8.7%	0	0	--
Wisconsin	3,141	1,837	71.0%	170	203	-16.0%	W	W	W
West North Central	26,040	15,689	66.0%	740	848	-12.7%	0	0	--
Iowa	6,354	2,262	180.9%	92	127	-27.8%	0	0	--
Kansas	3,732	2,778	34.4%	NM	114	NM	0	0	--
Minnesota	3,573	2,344	52.4%	76	100	-24.0%	0	0	--
Missouri	8,069	5,305	52.1%	306	335	-8.8%	0	0	--
Nebraska	2,778	1,647	68.7%	71	101	-30.1%	0	0	--
North Dakota	W	W	W	38	28	34.5%	0	0	--
South Dakota	W	W	W	44	41	7.5%	0	0	--
South Atlantic	26,371	20,342	29.6%	11,053	10,842	1.9%	W	W	W
Delaware	W	W	W	627	568	10.3%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	3,274	3,450	-5.1%	3,936	4,136	-4.8%	W	W	W
Georgia	5,981	4,372	36.8%	993	830	19.7%	0	0	--
Maryland	1,930	1,725	11.8%	670	690	-2.9%	0	0	--
North Carolina	4,829	W	W	1,394	1,237	12.8%	0	0	--
South Carolina	2,780	2,163	28.5%	774	715	8.1%	0	0	--
Virginia	W	920	W	2,512	2,507	0.2%	0	0	--
West Virginia	6,315	W	W	148	159	-7.2%	0	W	W
East South Central	13,286	9,625	38.0%	1,098	1,293	-15.1%	0	0	--
Alabama	3,038	W	W	212	212	0.0%	0	0	--
Kentucky	6,781	5,212	30.1%	227	233	-2.6%	0	0	--
Mississippi	W	W	W	NM	36	NM	0	0	--
Tennessee	W	2,106	W	653	812	-19.5%	0	0	--
West South Central	23,121	15,296	51.2%	1,236	1,364	-9.4%	W	W	W
Arkansas	4,295	2,985	43.9%	NM	164	NM	0	0	--
Louisiana	3,447	2,320	48.5%	167	225	-25.7%	W	W	W
Oklahoma	2,996	2,684	11.6%	97	90	8.2%	0	0	--
Texas	12,382	7,306	69.5%	789	885	-10.9%	0	0	--
Mountain	18,073	15,003	20.5%	354	367	-3.6%	W	W	W
Arizona	3,962	3,128	26.7%	121	140	-13.9%	0	0	--
Colorado	3,659	3,756	-2.6%	110	122	-9.5%	0	0	--
Idaho	0	0	--	0	0	-50.3%	0	0	--
Montana	W	W	W	14	15	-9.1%	W	W	W
Nevada	W	W	W	3	3	0.1%	0	0	--
New Mexico	W	W	W	NM	NM	NM	0	0	--
Utah	3,446	2,710	27.2%	53	41	29.7%	0	0	--
Wyoming	5,059	3,456	46.4%	36	26	39.0%	0	0	--
Pacific Contiguous	W	W	W	339	357	-4.9%	0	0	--
California	0	0	--	173	176	-2.1%	0	0	--
Oregon	W	W	W	73	78	-6.3%	0	0	--
Washington	W	W	W	93	102	-8.8%	0	0	--
Pacific Noncontiguous	W	W	W	1,186	1,408	-15.7%	0	0	--
Alaska	0	0	--	53	176	-69.9%	0	0	--
Hawaii	W	W	W	1,134	1,232	-8.0%	0	0	--
U.S. Total	145,451	97,102	49.8%	25,392	26,266	-3.3%	537	498	7.7%

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.

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, March 2020 and 2019**

Census Division	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019
<b>Coal (Thousand Tons)</b>							
New England	475	484	-1.8%	W	W	W	W
Middle Atlantic	4,941	3,534	39.8%	W	0	W	3,534
East North Central	31,654	16,464	92.3%	19,616	10,844	12,038	5,620
West North Central	26,040	15,689	66.0%	26,040	15,689	0	0
South Atlantic	26,371	20,342	29.6%	23,515	17,828	2,856	2,513
East South Central	13,286	9,625	38.0%	13,286	9,625	0	0
West South Central	23,121	15,296	51.2%	16,049	11,081	7,072	4,215
Mountain	18,073	15,003	20.5%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	0	0	W	W
<b>U.S. Total</b>	<b>145,451</b>	<b>97,102</b>	<b>49.8%</b>	<b>116,736</b>	<b>79,627</b>	<b>28,715</b>	<b>17,475</b>
<b>Petroleum Liquids (Thousand Barrels)</b>							
New England	3,259	3,431	-5.0%	456	506	2,803	2,926
Middle Atlantic	5,046	5,291	-4.6%	2,004	2,080	3,042	3,211
East North Central	1,081	1,066	1.4%	725	716	356	350
West North Central	740	848	-12.7%	718	821	22	26
South Atlantic	11,053	10,842	1.9%	8,777	8,674	2,276	2,168
East South Central	1,098	1,293	-15.1%	1,006	1,201	92	92
West South Central	1,236	1,364	-9.4%	988	1,032	248	332
Mountain	354	367	-3.6%	325	338	29	29
Pacific Contiguous	339	357	-4.9%	262	277	NM	80
Pacific Noncontiguous	1,186	1,408	-15.7%	1,141	1,371	45	37
<b>U.S. Total</b>	<b>25,392</b>	<b>26,266</b>	<b>-3.3%</b>	<b>16,402</b>	<b>17,016</b>	<b>8,990</b>	<b>9,250</b>
<b>Petroleum Coke (Thousand Tons)</b>							
New England	0	0	--	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0
East North Central	W	69	W	W	69	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
<b>U.S. Total</b>	<b>537</b>	<b>498</b>	<b>7.7%</b>	<b>523</b>	<b>482</b>	<b>14</b>	<b>16</b>

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 - March 2020  
(Thousand Tons)**

Period	Electric Power Sector				Total
	Bituminous Coal	Subbituminous Coal	Lignite Coal		
<b>End of Year Stocks</b>					
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	41,766	58,238	3,039		103,043
2019	55,103	69,988	3,124		128,497
<b>Year 2018, End of Month Stocks</b>					
January	48,376	72,242	3,074		123,692
February	48,090	69,946	2,909		120,945
March	49,456	73,752	3,213		126,422
April	50,915	74,726	3,324		128,965
May	51,788	73,355	3,212		128,356
June	48,787	69,416	3,191		121,394
July	44,841	62,989	2,847		110,677
August	42,691	58,541	2,816		104,048
Sept	40,700	57,136	2,845		100,680
October	42,887	59,231	3,016		105,134
November	42,673	58,554	3,108		104,336
December	41,766	58,238	3,039		103,043
<b>Year 2019, End of Month Stocks</b>					
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
<b>Year 2020, End of Month Stocks</b>					
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

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 - March 2020**

Period	Coal						Petroleum Liquids							
	Receipts		Average Cost		(Dollars per Ton)	Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousands Tons)	(Dollars per MMBtu)	(Dollars per Ton)				(Billion Btu)	(Thousands Barrels)	(Dollars per MMBtu)				
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		
Year to Date														
2018	2,748,769	144,324	2.06	39.16	1.28	90.7	56,030	9,331	13.68	82.31	0.46	69.4		
2019	2,670,910	138,736	2.09	40.18	1.37	93.4	24,821	4,099	13.28	80.40	0.47	68.1		
2020	2,167,322	114,473	1.93	36.55	1.28	113.8	18,655	3,100	12.36	74.38	0.51	64.3		
Rolling 12 Months Ending in March														
2019	11,293,258	590,627	2.06	39.49	1.33	92.4	102,860	17,058	14.52	87.54	0.41	71.7		
2020	10,165,000	530,759	1.98	38.01	1.30	105.5	80,217	13,320	13.39	80.67	0.50	61.9		

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

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

W = Withheld to avoid disclosure of individual company data.

**Notes:**

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

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

PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included dist

**Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2010 - March 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)	Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2010	169,508	5,963	2.28	64.85	4.79	98.5	8,867,396	8,673,070	5.09	5.20	102.0	3.26
2011	171,100	5,980	3.03	86.78	5.01	98.2	9,250,652	9,056,164	4.72	4.83	103.8	3.29
2012	119,667	4,180	2.24	64.14	5.55	83.3	9,746,691	9,531,389	3.42	3.50	91.9	2.83
2013	132,474	4,660	2.18	61.95	5.41	73.5	8,721,114	8,503,424	4.33	4.44	89.7	3.09
2014	147,310	5,195	1.98	56.23	5.56	91.2	8,679,286	8,431,423	5.00	5.14	89.6	3.31
2015	138,668	4,897	1.84	52.11	5.25	94.4	10,173,502	9,842,581	3.23	3.34	89.9	2.65
2016	116,942	4,166	1.65	46.30	5.40	77.9	10,619,105	10,271,180	2.87	2.97	90.7	2.47
2017	92,837	3,309	2.13	59.90	5.56	74.1	9,951,815	9,628,733	3.37	3.49	90.2	2.65
2018	85,122	3,010	2.54	71.76	5.74	66.1	11,244,158	10,885,764	3.55	3.67	90.4	2.83
2019	56,294	1,969	1.91	54.59	5.51	53.6	11,149,544	10,786,472	2.89	2.99	84.3	2.49
Year 2018												
January	7,009	248	2.38	67.41	5.31	53.2	836,690	809,817	5.06	5.23	88.7	3.59
February	7,769	277	2.43	68.09	5.49	72.4	734,114	711,064	3.61	3.73	88.8	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	89.5	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
Year to Date												
2018	22,619	806	2.45	68.86	5.45	68.6	2,376,599	2,300,446	3.98	4.11	88.9	3.02
2019	13,659	477	2.24	64.15	5.94	43.6	2,453,907	2,373,179	3.70	3.83	85.1	2.88
2020	20,277	713	1.47	41.78	5.25	79.3	2,698,004	2,607,696	2.39	2.48	84.7	2.22
Rolling 12 Months Ending in March												
2019	76,162	2,681	2.51	71.28	5.86	60.0	11,321,466	10,958,496	3.49	3.61	89.5	2.80
2020	62,912	2,205	1.70	48.38	5.33	63.4	11,393,641	11,020,989	2.60	2.69	84.3	2.34

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

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

W = Withheld to avoid disclosure of individual company data.

**Notes:**

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

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

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

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

- See Glossary for definitions.

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

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

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		(Dollars per Sulfur Percent by Weight)	Percentage of Consumption	Receipts		Average Cost		(Dollars per 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
Year to Date												
2018	2,022,679	105,748	2.09	39.98	1.15	92.2	30,578	5,081	13.68	82.41	0.43	75.3
2019	1,948,804	100,892	2.15	41.54	1.23	94.3	18,865	3,102	13.30	80.86	0.44	83.2
2020	1,604,174	84,449	1.97	37.33	1.12	115.9	15,315	2,535	12.25	74.02	0.47	73.3
Rolling 12 Months Ending in March												
2019	8,277,161	431,108	2.12	40.72	1.20	92.1	72,337	11,918	14.40	87.42	0.37	77.3
2020	7,574,615	394,367	2.04	39.17	1.16	107.5	61,838	10,201	13.12	79.53	0.47	69.3

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

**Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2010 - March 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)	Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2010	103,152	3,628	2.38	67.65	5.03	109.1	3,395,962	3,327,919	5.43	5.54	101.1	2.99
2011	99,208	3,445	3.08	88.73	5.17	99.9	3,571,348	3,507,613	5.00	5.09	101.8	3.08
2012	72,782	2,521	2.30	66.40	5.46	119.8	4,083,579	4,003,457	3.74	3.81	97.6	2.86
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
2015	115,929	4,069	1.77	50.44	5.23	130.1	4,717,748	4,565,040	3.52	3.64	96.0	2.67
2016	99,706	3,538	1.52	42.85	5.38	103.1	5,075,337	4,907,538	3.15	3.26	97.0	2.54
2017	90,481	3,224	2.15	60.31	5.55	117.6	4,794,383	4,640,827	3.62	3.74	96.8	2.68
2018	83,211	2,940	2.56	72.34	5.74	106.8	5,553,558	5,379,459	3.68	3.80	96.2	2.80
2019	54,266	1,896	1.92	54.88	5.50	91.0	5,436,200	5,262,798	3.06	3.16	87.6	2.53
Year 2018												
January	7,009	248	2.38	67.41	5.31	83.4	423,606	410,310	5.20	5.37	95.5	3.41
February	7,769	277	2.43	68.09	5.49	117.9	359,760	348,729	3.81	3.93	95.0	2.79
March	7,841	281	2.54	70.89	5.54	141.5	397,572	384,900	3.46	3.57	96.4	2.64
April	6,564	232	2.56	72.38	6.09	119.0	377,302	365,948	3.30	3.40	97.5	2.63
May	4,344	152	2.41	68.58	6.09	108.3	452,870	438,567	3.24	3.35	94.8	2.63
June	7,382	260	2.73	77.61	5.97	96.2	525,751	509,192	3.28	3.39	97.2	2.67
July	8,147	287	2.73	77.48	5.73	100.4	632,132	612,044	3.27	3.38	95.1	2.69
August	8,183	288	2.82	80.03	5.67	105.4	607,246	588,293	3.33	3.44	96.5	2.68
Sept	7,493	263	3.05	86.74	5.59	101.2	535,618	518,216	3.28	3.39	97.0	2.68
October	5,415	191	2.55	72.24	5.80	120.4	464,777	450,302	3.57	3.68	97.8	2.74
November	6,524	229	2.23	63.55	5.88	116.4	390,167	378,446	4.26	4.39	94.9	2.93
December	6,541	232	2.04	57.52	5.91	96.0	386,756	374,513	4.92	5.08	96.2	3.16
Year 2019												
January	5,447	192	2.08	59.13	5.93	73.8	406,718	394,288	4.19	4.32	90.4	2.93
February	4,486	155	2.27	65.75	5.78	69.4	379,192	364,901	3.79	3.94	89.0	2.82
March	3,725	130	2.43	69.63	6.15	66.9	386,643	374,986	3.66	3.77	89.5	2.81
April	3,159	111	2.71	76.93	5.65	101.5	359,063	348,044	3.09	3.18	87.9	2.54
May	4,631	162	2.24	63.78	5.41	73.8	422,966	410,771	2.94	3.03	90.7	2.49
June	3,740	130	2.18	62.61	5.15	85.7	491,914	476,866	2.76	2.84	88.1	2.44
July	5,723	199	2.01	57.76	5.22	86.8	592,859	573,479	2.65	2.74	84.6	2.38
August	6,693	235	1.72	48.82	5.15	115.7	604,271	584,200	2.55	2.64	84.4	2.31
Sept	3,034	105	1.68	48.71	5.58	56.6	519,620	503,066	2.77	2.86	85.9	2.40
October	1,738	60	1.51	43.76	5.45	92.3	456,258	441,488	2.71	2.80	86.1	2.35
November	6,654	232	1.46	41.78	5.38	227.7	392,163	379,687	3.16	3.26	89.3	2.51
December	5,236	183	1.14	32.50	5.44	132.2	424,532	411,022	3.16	3.27	90.2	2.49
Year 2020												
January	8,421	295	1.53	43.68	5.34	144.1	445,637	431,393	2.87	2.97	88.3	2.40
February	6,913	244	1.47	41.75	4.99	164.5	436,651	422,625	2.66	2.74	89.0	2.33
March	4,942	174	1.36	38.61	5.46	82.4	439,598	425,006	2.36	2.44	88.7	2.19
Year to Date												
2018	22,619	806	2.45	68.86	5.45	110.3	1,180,938	1,143,939	4.19	4.32	95.6	2.96
2019	13,659	477	2.24	64.15	5.94	70.4	1,172,553	1,134,175	3.89	4.02	89.6	2.86
2020	20,277	713	1.47	41.78	5.25	126.4	1,321,886	1,279,024	2.63	2.72	88.7	2.31
Rolling 12 Months Ending in March												
2019	74,251	2,610	2.53	71.92	5.86	96.7	5,545,173	5,369,695	3.62	3.74	94.8	2.78
2020	60,884	2,132	1.70	48.43	5.32	108.2	5,585,533	5,407,646	2.79	2.88	87.5	2.40

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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.

- 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

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

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		(Dollars per Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		(Dollars per 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
Year to Date												
2018	680,323	36,383	1.92	35.99	1.67	89.4	24,623	4,118	13.73	82.37	0.45	73.1
2019	683,050	35,965	1.87	35.63	1.77	93.8	5,477	918	13.19	78.68	0.50	61.3
2020	526,172	28,231	1.78	33.20	1.75	114.0	2,798	476	12.97	76.18	0.54	54.6
Rolling 12 Months Ending in March												
2019	2,851,789	151,597	1.88	35.32	1.72	95.4	28,553	4,823	14.87	87.95	0.44	84.9
2020	2,444,735	129,313	1.78	33.72	1.73	103.5	16,632	2,835	14.48	84.97	0.51	64.0

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**Notes:**

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

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

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

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

**Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2010 - March 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)	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	94.7	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	93.8	2.80
March	0	0	--	--	--	0.0	346,290	334,497	2.87	2.97	93.7	2.46
April	0	0	--	--	--	0.0	319,774	309,352	2.96	3.06	94.2	2.51
May	0	0	--	--	--	0.0	377,388	365,397	2.79	2.89	94.9	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	94.2	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
Year to Date												
2018	0	0	--	--	--	0.0	1,002,201	968,798	3.84	3.97	93.5	3.12
2019	0	0	--	--	--	0.0	1,077,222	1,040,968	3.53	3.65	90.6	2.85
2020	0	0	--	--	--	0.0	1,171,293	1,129,835	2.12	2.20	90.3	2.02
Rolling 12 Months Ending in March												
2019	0	0	--	--	--	0.0	4,964,233	4,799,862	3.33	3.45	94.0	2.78
2020	0	0	--	--	--	0.0	5,001,988	4,830,946	2.36	2.44	89.4	2.17

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

	Coal						Petroleum Liquids					
	Receipts		Average Cost		(Dollars per Sulfur Percent by Weight)	Percentage of Consumption	Receipts		Average Cost		(Dollars per Sulfur Percent by Weight)	Percentage of Consumption
Period	(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
Year to Date												
2018	130	6	2.92	66.44	3.13	3.0	0	0	--	--	--	0.0
2019	113	5	2.90	65.75	2.96	3.0	0	0	--	--	--	0.0
2020	84	4	2.96	67.52	2.95	2.8	0	0	--	--	--	0.0
Rolling 12 Months Ending in March												
2019	272	12	2.93	66.24	2.96	2.2	0	0	--	--	--	0.0
2020	165	7	2.96	67.60	3.02	1.5	0	0	--	--	--	0.0

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**Notes:**

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

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

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

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- 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 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2010 - March 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	
Year to Date													
2018	0	0	--	--	--	0.0	2,321	2,252	3.64	3.76	6.8	3.61	
2019	0	0	--	--	--	0.0	2,389	2,308	3.38	3.49	6.7	3.35	
2020	0	0	--	--	--	0.0	2,238	2,147	3.10	3.23	6.4	3.10	
Rolling 12 Months Ending in March													
2019	0	0	--	--	--	0.0	9,158	8,879	3.42	3.52	6.5	3.40	
2020	0	0	--	--	--	0.0	9,277	8,926	3.20	3.32	6.7	3.19	

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

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

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		(Dollars per Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		(Dollars per 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
Year to Date												
2018	45,637	2,188	2.48	51.78	1.27	63.0	829	132	12.35	77.29	1.29	16.1
2019	38,943	1,875	2.60	53.92	1.26	61.7	479	78	13.43	81.93	1.43	12.3
2020	36,892	1,790	2.52	52.03	1.18	63.6	542	89	12.24	75.01	1.29	23.3
Rolling 12 Months Ending in March												
2019	164,036	7,911	2.50	51.87	1.30	67.0	1,969	318	13.92	86.25	1.41	14.7
2020	145,486	7,071	2.53	52.13	1.16	64.2	1,748	285	12.83	78.70	1.43	16.2

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

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

W = Withheld to avoid disclosure of individual company data.

**Notes:**

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.

**Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2010 - March 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)	Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2010	35,866	1,269	2.46	69.38	4.90	100.5	1,166,768	1,135,917	4.64	4.77	110.4	4.24
2011	37,981	1,351	W	W	5.03	108.3	1,331,977	1,296,628	4.28	4.40	122.0	W
2012	23,861	858	2.62	72.96	5.86	42.2	834,245	813,288	2.97	3.05	70.8	W
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	2.56	69.67	5.83	23.2	742,347	718,360	4.54	4.69	62.7	4.12
2015	8,189	304	1.73	46.72	5.50	24.1	765,964	740,975	2.83	2.93	60.6	2.82
2016	3,664	135	2.00	54.12	5.84	11.2	744,034	721,358	2.65	2.74	59.6	2.68
2017	2,356	85	1.59	44.08	5.84	8.1	803,435	778,741	3.18	3.28	62.0	3.06
2018	1,911	71	1.75	47.47	5.74	7.1	792,297	769,790	3.39	3.49	58.6	3.25
2019	2,028	73	1.69	46.99	5.81	7.8	795,998	772,508	2.83	2.91	57.3	2.80
Year 2018												
January	0	0	--	--	--	0.0	69,164	67,045	3.59	3.70	58.1	3.42
February	0	0	--	--	--	0.0	60,810	58,990	3.41	3.52	58.6	3.26
March	0	0	--	--	--	0.0	61,164	59,423	2.85	2.94	56.5	2.81
April	0	0	--	--	--	0.0	61,184	59,457	2.92	3.01	58.4	2.87
May	0	0	--	--	--	0.0	63,410	61,557	2.99	3.08	58.8	2.92
June	0	0	--	--	--	0.0	65,879	64,032	3.14	3.23	59.8	3.03
July	160	6	1.70	45.10	5.83	6.8	68,296	66,523	3.03	3.11	57.4	2.93
August	260	10	1.78	46.99	5.55	12.2	69,386	67,341	3.12	3.21	58.1	3.03
Sept	664	25	1.78	47.54	6.02	31.0	67,825	66,022	3.12	3.20	60.1	3.04
October	477	17	1.76	48.96	5.45	20.6	66,419	64,687	3.75	3.85	59.0	3.56
November	172	6	1.69	46.62	5.85	8.4	71,469	69,556	3.97	4.08	61.6	3.75
December	178	6	1.70	47.00	5.53	7.3	67,289	65,157	4.70	4.85	56.6	4.31
Year 2019												
January	0	0	--	--	--	0.0	72,247	70,154	3.77	3.88	58.2	3.59
February	0	0	--	--	--	0.0	63,912	61,868	3.45	3.56	58.1	3.34
March	0	0	--	--	--	0.0	65,584	63,706	3.13	3.22	57.2	3.07
April	0	0	--	--	--	0.0	63,841	62,075	2.85	2.93	58.4	2.84
May	0	0	--	--	--	0.0	65,305	63,475	2.75	2.83	58.1	2.73
June	0	0	--	--	--	0.0	63,184	61,402	2.63	2.71	56.8	2.63
July	43	2	1.71	46.96	5.81	1.6	67,946	65,986	2.49	2.57	57.8	2.49
August	615	23	1.75	46.99	5.75	29.3	68,127	66,022	2.38	2.45	57.6	2.39
Sept	743	26	1.63	47.00	5.56	26.1	64,141	62,097	2.56	2.65	56.7	2.56
October	627	23	1.72	47.00	6.17	32.6	63,390	61,514	2.46	2.54	55.6	2.49
November	0	0	--	--	--	0.0	67,713	65,714	2.77	2.86	56.8	2.76
December	0	0	--	--	--	0.0	70,607	68,496	2.62	2.70	56.2	2.65
Year 2020												
January	0	0	--	--	--	0.0	71,557	69,397	2.36	2.44	56.1	2.41
February	0	0	--	--	--	0.0	65,225	63,315	2.12	2.19	56.4	2.19
March	0	0	--	--	--	0.0	65,805	63,979	2.00	2.05	56.0	2.12
Year to Date												
2018	0	0	--	--	--	0.0	191,139	185,458	3.30	3.40	57.7	3.17
2019	0	0	--	--	--	0.0	201,742	195,728	3.46	3.57	57.8	3.34
2020	0	0	--	--	--	0.0	202,587	196,690	2.17	2.23	56.2	2.24
Rolling 12 Months Ending in March												
2019	1,911	71	1.75	47.47	5.74	7.3	802,901	780,060	3.43	3.53	58.6	3.29
2020	2,028	73	1.70	47.00	5.82	8.3	796,843	773,471	2.50	2.58	56.9	2.52

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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.

- See Glossary for definitions.

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

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

- See the Technical Notes for fuel conversion factors.

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	March 2020	March 2019	Percentage Change	Electric Utilities		Independent Power Producers		March 2020	March 2019	March 2020	March 2019
New England	28	8	252.0%	24	0	4	8	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	4	8	-47.0%	0	0	4	8	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	24	0	--	24	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	853	1,889	-55.0%	31	0	810	1,877	0	0	11	11
New Jersey	31	58	-46.0%	0	0	31	58	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	822	1,831	-55.0%	31	0	779	1,820	0	0	11	11
East North Central	7,558	9,095	-17.0%	4,200	4,916	3,196	4,013	0	0	161	166
Illinois	2,019	2,541	-21.0%	377	332	1,481	2,044	0	0	161	166
Indiana	1,815	2,772	-35.0%	1,603	2,558	212	214	0	0	0	0
Michigan	941	1,040	-9.4%	941	1,040	0	0	0	0	0	0
Ohio	1,612	2,041	-21.0%	108	286	1,504	1,755	0	0	0	0
Wisconsin	1,170	701	67.0%	1,170	701	0	0	0	0	0	0
West North Central	7,862	7,013	12.0%	7,625	6,787	0	0	0	2	237	224
Iowa	1,219	848	44.0%	1,045	684	0	0	0	0	174	165
Kansas	704	707	-0.5%	704	707	0	0	0	0	0	0
Minnesota	536	766	-30.0%	536	766	0	0	0	0	0	0
Missouri	2,584	1,756	47.0%	2,584	1,753	0	0	0	2	0	0
Nebraska	1,022	893	14.0%	959	834	0	0	0	0	64	59
North Dakota	1,687	1,911	-12.0%	1,687	1,911	0	0	0	0	0	0
South Dakota	110	132	-17.0%	110	132	0	0	0	0	0	0
South Atlantic	3,817	6,142	-38.0%	3,330	5,346	429	715	0	0	59	81
Delaware	0	12	-100.0%	0	0	0	12	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	365	618	-41.0%	354	609	0	0	0	0	11	10
Georgia	518	1,077	-52.0%	507	1,062	0	0	0	0	11	16
Maryland	76	333	-77.0%	0	0	76	314	0	0	0	19
North Carolina	685	1,125	-39.0%	664	1,091	2	12	0	0	19	22
South Carolina	475	553	-14.0%	475	553	0	0	0	0	0	0
Virginia	164	275	-40.0%	148	227	0	34	0	0	17	15
West Virginia	1,534	2,148	-29.0%	1,182	1,804	352	344	0	0	0	0
East South Central	3,528	4,272	-17.0%	3,152	3,904	311	309	0	0	65	60
Alabama	830	943	-12.0%	830	943	0	0	0	0	0	0
Kentucky	1,929	2,684	-28.0%	1,929	2,684	0	0	0	0	0	0
Mississippi	387	405	-4.5%	76	96	311	309	0	0	0	0
Tennessee	382	240	59.0%	317	180	0	0	0	0	65	60
West South Central	5,104	6,573	-22.0%	2,477	3,323	2,605	3,229	0	0	22	22
Arkansas	759	853	-11.0%	554	684	198	162	0	0	7	7
Louisiana	261	471	-45.0%	261	406	0	65	0	0	0	0
Oklahoma	129	313	-59.0%	114	298	0	0	0	0	15	15
Texas	3,955	4,936	-20.0%	1,548	1,936	2,407	3,001	0	0	0	0
Mountain	5,460	6,370	-14.0%	4,798	5,427	662	942	0	0	0	0
Arizona	681	1,319	-48.0%	681	1,319	0	0	0	0	0	0
Colorado	796	1,166	-32.0%	796	1,166	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	600	812	-26.0%	26	27	574	786	0	0	0	0
Nevada	54	159	-66.0%	24	86	30	74	0	0	0	0
New Mexico	548	488	12.0%	548	488	0	0	0	0	0	0
Utah	1,145	784	46.0%	1,127	745	18	39	0	0	0	0
Wyoming	1,636	1,641	-0.3%	1,596	1,597	40	44	0	0	0	0
Pacific Contiguous	406	476	-15.0%	107	75	233	335	0	0	65	66
California	65	66	-1.0%	0	0	0	0	0	0	65	66
Oregon	107	75	43.0%	107	75	0	0	0	0	0	0
Washington	233	335	-30.0%	0	0	233	335	0	0	0	0
Pacific Noncontiguous	96	157	-39.0%	37	36	59	121	0	0	0	0
Alaska	37	36	2.8%	37	36	0	0	0	0	0	0
Hawaii	59	121	-51.0%	0	0	59	121	0	0	0	0
U.S. Total	34,712	41,993	-17.0%	25,781	29,813	8,311	11,549	0	2	621	629

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W = Withheld to avoid disclosure of individual company data.

Notes:

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

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Electric Utilities		Independent Power Producers								
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	52	24	116.0%	32	0	20	24	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	20	24	-18.0%	0	0	20	24	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	32	0	--	32	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	3,393	5,363	-37.0%	31	0	3,341	5,352	0	0	21	11
New Jersey	113	181	-37.0%	0	0	113	181	0	0	0	0
New York	0	69	-100.0%	0	0	0	69	0	0	0	0
Pennsylvania	3,280	5,114	-36.0%	31	0	3,228	5,102	0	0	21	11
East North Central	23,928	29,024	-18.0%	13,320	16,151	10,116	12,409	0	0	492	464
Illinois	6,641	9,118	-27.0%	1,024	1,660	5,126	6,994	0	0	492	464
Indiana	6,120	7,805	-22.0%	5,485	7,275	636	531	0	0	0	0
Michigan	3,173	3,300	-3.9%	3,173	3,300	0	0	0	0	0	0
Ohio	4,911	5,604	-12.0%	556	719	4,354	4,885	0	0	0	0
Wisconsin	3,083	3,196	-3.6%	3,083	3,196	0	0	0	0	0	0
West North Central	26,529	24,479	8.4%	25,775	23,739	0	0	4	5	751	735
Iowa	4,119	3,144	31.0%	3,577	2,596	0	0	0	0	542	548
Kansas	2,805	2,540	10.0%	2,805	2,540	0	0	0	0	0	0
Minnesota	1,874	2,493	-25.0%	1,874	2,493	0	0	0	0	0	0
Missouri	8,429	7,191	17.0%	8,425	7,186	0	0	4	5	0	0
Nebraska	3,299	2,886	14.0%	3,090	2,699	0	0	0	0	209	187
North Dakota	5,644	5,839	-3.3%	5,644	5,839	0	0	0	0	0	0
South Dakota	360	385	-6.6%	360	385	0	0	0	0	0	0
South Atlantic	12,493	19,341	-35.0%	11,143	16,993	1,202	2,112	0	0	148	236
Delaware	0	71	-100.0%	0	0	0	71	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,529	2,329	-34.0%	1,518	2,306	0	0	0	0	11	23
Georgia	1,828	3,798	-52.0%	1,805	3,763	0	0	0	0	23	36
Maryland	367	919	-60.0%	0	0	367	860	0	0	0	58
North Carolina	2,264	2,932	-23.0%	2,186	2,877	17	15	0	0	61	40
South Carolina	1,496	2,326	-36.0%	1,493	2,319	0	0	0	0	3	8
Virginia	398	718	-45.0%	348	547	0	101	0	0	50	70
West Virginia	4,610	6,247	-26.0%	3,792	5,183	817	1,065	0	0	0	0
East South Central	11,054	13,109	-16.0%	10,116	12,312	766	634	0	0	172	162
Alabama	2,853	3,285	-13.0%	2,853	3,285	0	0	0	0	0	0
Kentucky	6,055	7,809	-22.0%	6,055	7,809	0	0	0	0	0	0
Mississippi	921	970	-5.1%	155	337	766	634	0	0	0	0
Tennessee	1,224	1,044	17.0%	1,052	882	0	0	0	0	172	162
West South Central	18,290	24,543	-25.0%	8,677	13,347	9,569	11,115	0	0	45	81
Arkansas	2,796	4,175	-33.0%	2,155	3,565	626	589	0	0	15	22
Louisiana	1,171	1,634	-28.0%	876	1,242	295	392	0	0	0	0
Oklahoma	415	1,609	-74.0%	380	1,535	4	14	0	0	30	60
Texas	13,908	17,125	-19.0%	5,265	7,004	8,643	10,121	0	0	0	0
Mountain	16,783	20,844	-19.0%	14,809	17,899	1,973	2,946	0	0	0	0
Arizona	2,176	4,105	-47.0%	2,176	4,105	0	0	0	0	0	0
Colorado	3,208	3,693	-13.0%	3,208	3,693	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1,737	2,590	-33.0%	54	77	1,684	2,513	0	0	0	0
Nevada	186	479	-61.0%	36	289	150	190	0	0	0	0
New Mexico	1,826	1,919	-4.8%	1,826	1,919	0	0	0	0	0	0
Utah	2,990	2,733	9.4%	2,972	2,620	18	112	0	0	0	0
Wyoming	4,660	5,326	-13.0%	4,538	5,196	122	130	0	0	0	0
Pacific Contiguous	1,684	1,728	-2.5%	459	349	1,065	1,193	0	0	161	186
California	161	186	-13.0%	0	0	0	0	0	0	161	186
Oregon	459	349	31.0%	459	349	0	0	0	0	0	0
Washington	1,065	1,193	-11.0%	0	0	1,065	1,193	0	0	0	0
Pacific Noncontiguous	266	282	-5.7%	87	102	179	180	0	0	0	0
Alaska	87	102	-15.0%	87	102	0	0	0	0	0	0
Hawaii	179	180	-0.5%	0	0	179	180	0	0	0	0
U.S. Total	114,473	138,736	-17.0%	84,449	100,892	28,231	35,965	4	5	1,790	1,875

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Notes:

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

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

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

**Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, March 2020 and 2019  
(Thousand Barrels)**

Census Division and State				Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	7	10	-32.0%	0	1	7	9	0	0	0	0
Connecticut	2	2	44.0%	0	0	2	2	0	0	0	0
Maine	4	7	-41.0%	0	0	4	7	0	0	0	0
Massachusetts	0	0	-100.0%	0	0	0	0	0	0	0	0
New Hampshire	0	1	-75.0%	0	1	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	21	130	-84.0%	0	108	14	16	0	0	6	6
New Jersey	0	0	-100.0%	0	0	0	0	0	0	0	0
New York	1	111	-99.0%	0	108	1	3	0	0	0	0
Pennsylvania	20	19	3.0%	0	0	13	13	0	0	6	6
East North Central	102	72	42.0%	65	59	36	10	0	0	1	2
Illinois	3	6	-48.0%	0	1	3	6	0	0	0	0
Indiana	43	22	98.0%	43	22	0	0	0	0	0	0
Michigan	15	7	111.0%	15	7	0	0	0	0	1	0
Ohio	34	29	17.0%	1	23	32	4	0	0	1	2
Wisconsin	6	7	-16.0%	6	7	0	0	0	0	0	0
West North Central	63	40	57.0%	63	40	0	0	0	0	0	0
Iowa	12	15	-22.0%	12	15	0	0	0	0	0	0
Kansas	21	0	--	21	0	0	0	0	0	0	0
Minnesota	1	4	-75.0%	1	4	0	0	0	0	0	0
Missouri	11	14	-20.0%	11	14	0	0	0	0	0	0
Nebraska	1	0	--	1	0	0	0	0	0	0	0
North Dakota	12	7	77.0%	12	7	0	0	0	0	0	0
South Dakota	5	0	--	5	0	0	0	0	0	0	0
South Atlantic	81	192	-58.0%	59	173	1	7	0	0	21	12
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	19	101	-82.0%	16	98	0	0	0	0	3	4
Georgia	20	18	12.0%	13	10	1	1	0	0	6	6
Maryland	0	5	-96.0%	0	0	0	5	0	0	0	0
North Carolina	11	18	-39.0%	8	16	0	0	0	0	3	1
South Carolina	16	10	63.0%	9	10	0	0	0	0	7	0
Virginia	3	8	-62.0%	1	6	0	1	0	0	2	1
West Virginia	13	33	-61.0%	13	33	0	0	0	0	0	0
East South Central	18	25	-29.0%	15	25	0	0	0	0	3	0
Alabama	1	2	-42.0%	1	2	0	0	0	0	0	0
Kentucky	10	14	-32.0%	10	14	0	0	0	0	0	0
Mississippi	2	4	-58.0%	2	4	0	0	0	0	0	0
Tennessee	5	5	2.8%	3	5	0	0	0	0	3	0
West South Central	24	26	-8.3%	18	15	6	11	0	0	0	0
Arkansas	7	7	-9.9%	6	5	1	2	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	11	1	NM	11	1	0	0	0	0	0	0
Texas	7	18	-62.0%	2	10	5	9	0	0	0	0
Mountain	32	21	51.0%	31	20	1	1	0	0	0	0
Arizona	15	7	116.0%	15	7	0	0	0	0	0	0
Colorado	1	2	-35.0%	1	2	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	1	-100.0%	0	0	0	1	0	0	0	0
Nevada	2	2	-19.0%	2	2	0	0	0	0	0	0
New Mexico	4	5	-26.0%	4	5	0	0	0	0	0	0
Utah	5	2	231.0%	4	2	1	0	0	0	0	0
Wyoming	5	3	80.0%	5	3	0	0	0	0	0	0
Pacific Contiguous	0	7	-100.0%	0	6	0	1	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	7	-100.0%	0	6	0	1	0	0	0	0
Pacific Noncontiguous	767	719	6.7%	603	564	164	156	0	0	0	0
Alaska	3	2	112.0%	3	2	0	0	0	0	0	0
Hawaii	764	718	6.4%	600	562	164	156	0	0	0	0
U.S. Total	1,115	1,243	-10.0%	855	1,012	229	210	0	0	31	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) March 2020 and 2019  
(Thousand Barrels)**

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Electric Utilities		Independent Power Producers								
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	23	186	-88.0%	2	6	21	179	0	0	0	0
Connecticut	5	6	-21.0%	0	0	5	6	0	0	0	0
Maine	14	123	-88.0%	0	0	14	123	0	0	0	0
Massachusetts	2	51	-96.0%	0	0	2	51	0	0	0	0
New Hampshire	2	6	-70.0%	2	6	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	56	616	-91.0%	0	345	38	254	0	0	18	18
New Jersey	0	22	-99.0%	0	0	0	22	0	0	0	0
New York	5	425	-99.0%	0	345	5	80	0	0	0	0
Pennsylvania	51	170	-70.0%	0	0	33	151	0	0	18	18
East North Central	257	234	9.8%	168	134	85	88	0	0	4	12
Illinois	14	26	-46.0%	1	1	13	25	0	0	0	0
Indiana	105	57	85.0%	105	57	0	0	0	0	0	0
Michigan	49	33	47.0%	48	31	0	0	0	0	2	2
Ohio	71	103	-31.0%	4	37	65	56	0	0	3	10
Wisconsin	18	16	14.0%	11	8	7	8	0	0	0	0
West North Central	147	141	4.4%	147	141	0	0	0	0	0	0
Iowa	22	30	-26.0%	22	30	0	0	0	0	0	0
Kansas	41	17	138.0%	41	17	0	0	0	0	0	0
Minnesota	5	11	-53.0%	5	11	0	0	0	0	0	0
Missouri	29	44	-35.0%	29	44	0	0	0	0	0	0
Nebraska	1	6	-90.0%	1	6	0	0	0	0	0	0
North Dakota	44	33	33.0%	44	33	0	0	0	0	0	0
South Dakota	5	0	--	5	0	0	0	0	0	0	0
South Atlantic	306	445	-31.0%	241	363	4	36	0	0	62	46
Delaware	0	1	-100.0%	0	0	0	1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	36	132	-73.0%	26	115	0	0	0	0	10	17
Georgia	69	59	17.0%	52	42	1	1	0	0	16	16
Maryland	2	24	-91.0%	0	0	2	24	0	0	0	0
North Carolina	70	83	-15.0%	54	77	0	0	0	0	16	6
South Carolina	31	21	47.0%	21	20	0	0	0	0	9	1
Virginia	21	56	-63.0%	10	39	1	10	0	0	10	7
West Virginia	77	69	11.0%	77	69	0	0	0	0	0	0
East South Central	68	86	-20.0%	64	75	0	8	0	0	5	2
Alabama	1	14	-91.0%	1	6	0	8	0	0	0	0
Kentucky	39	42	-9.1%	39	42	0	0	0	0	0	0
Mississippi	3	6	-46.0%	3	6	0	0	0	0	0	0
Tennessee	25	23	11.0%	20	20	0	0	0	0	5	2
West South Central	63	44	44.0%	45	25	18	18	0	0	0	0
Arkansas	18	16	18.0%	16	8	2	8	0	0	0	0
Louisiana	4	0	--	4	0	0	0	0	0	0	0
Oklahoma	12	4	183.0%	12	4	0	0	0	0	0	0
Texas	28	24	20.0%	13	13	16	11	0	0	0	0
Mountain	120	106	14.0%	116	99	4	7	0	0	0	0
Arizona	34	40	-16.0%	34	40	0	0	0	0	0	0
Colorado	2	2	-3.1%	2	2	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3	6	-54.0%	0	0	3	6	0	0	0	0
Nevada	5	7	-37.0%	4	7	0	1	0	0	0	0
New Mexico	11	11	2.6%	11	11	0	0	0	0	0	0
Utah	41	29	44.0%	40	29	1	0	0	0	0	0
Wyoming	25	10	136.0%	25	10	0	0	0	0	0	0
Pacific Contiguous	2	9	-76.0%	0	6	2	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	2	9	-76.0%	0	6	2	3	0	0	0	0
Pacific Noncontiguous	2,058	2,233	-7.9%	1,753	1,909	305	324	0	0	0	0
Alaska	9	4	106.0%	9	4	0	0	0	0	0	0
Hawaii	2,049	2,229	-8.1%	1,744	1,905	305	324	0	0	0	0
U.S. Total	3,100	4,099	-24.0%	2,535	3,102	476	918	0	0	89	78

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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, March 2020 and 2019  
(Thousand Tons)**

Census Division and State				Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 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	49	5	949.0%	49	5	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	42	0	--	42	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	7	5	53.0%	7	5	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	39	-100.0%	0	39	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	39	-100.0%	0	39	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	125	86	45.0%	125	86	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	125	86	45.0%	125	86	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	174	130	34.0%	174	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) March 2020 and 2019 (Thousand Tons)**

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Electric Utilities		Independent Power Producers								
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 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	114	40	186.0%	114	40	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	97	29	232.0%	97	29	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	17	11	59.0%	17	11	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	188	115	64.0%	188	115	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	188	115	64.0%	188	115	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	411	322	28.0%	411	322	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	411	322	28.0%	411	322	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	713	477	49.0%	713	477	0	0	0	0	0	0

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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

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

Petroleum Coke includes petroleum coke-derived synthesis gas.

See the Technical Notes for fuel conversion factors.

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	March 2020	March 2019	Percentage Change	Electric Utilities		Independent Power Producers		March 2020	March 2019	March 2020	March 2019
New England	18,594	23,063	-19.0%	0	2	18,594	23,061	0	0	0	0
Connecticut	11,095	9,673	15.0%	0	0	11,095	9,673	0	0	0	0
Maine	213	634	-66.0%	0	0	213	634	0	0	0	0
Massachusetts	3,553	8,713	-59.0%	0	0	3,553	8,713	0	0	0	0
New Hampshire	1,262	1,556	-19.0%	0	2	1,262	1,554	0	0	0	0
Rhode Island	2,471	2,486	-0.6%	0	0	2,471	2,486	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	98,750	90,331	9.3%	5,575	6,029	92,234	83,482	0	0	941	820
New Jersey	15,233	19,069	-20.0%	0	0	15,233	19,069	0	0	0	0
New York	23,059	23,510	-1.9%	5,575	6,029	16,813	16,794	0	0	670	687
Pennsylvania	60,459	47,751	27.0%	0	0	60,188	47,619	0	0	271	133
East North Central	89,300	78,259	14.0%	31,111	26,376	56,292	49,961	537	655	1,359	1,267
Illinois	8,375	5,003	67.0%	1,909	298	6,465	4,705	0	0	1	0
Indiana	17,346	15,497	12.0%	7,213	6,304	10,133	9,193	0	0	0	0
Michigan	20,345	18,166	12.0%	5,221	4,286	14,025	12,633	537	655	562	592
Ohio	30,150	28,600	5.4%	5,176	5,601	24,442	22,532	0	0	532	467
Wisconsin	13,083	10,993	19.0%	11,593	9,887	1,226	899	0	0	264	207
West North Central	11,604	13,366	-13.0%	8,911	11,401	2,006	1,345	184	157	503	463
Iowa	3,102	4,709	-34.0%	2,599	4,254	0	0	0	0	503	455
Kansas	2,102	932	126.0%	2,102	932	0	0	0	0	0	0
Minnesota	2,187	3,755	-42.0%	2,092	3,737	95	9	0	1	0	8
Missouri	3,734	3,549	5.2%	1,638	2,057	1,911	1,336	184	156	0	0
Nebraska	152	275	-45.0%	152	275	0	0	0	0	0	0
North Dakota	328	145	126.0%	328	145	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	219,043	194,951	12.0%	183,283	162,584	32,432	29,262	0	0	3,328	3,105
Delaware	1,008	2,178	-54.0%	0	0	1,008	2,178	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	106,324	91,398	16.0%	102,142	89,558	3,863	1,440	0	0	320	400
Georgia	24,876	23,258	7.0%	18,139	17,057	5,897	5,486	0	0	840	715
Maryland	8,526	10,340	-18.0%	1,998	3,646	6,528	6,443	0	0	0	252
North Carolina	25,864	24,739	4.5%	21,152	19,933	4,427	4,542	0	0	284	264
South Carolina	14,381	11,483	25.0%	14,055	11,069	111	344	0	0	216	70
Virginia	36,204	30,644	18.0%	25,781	21,161	9,419	8,695	0	0	1,005	788
West Virginia	1,858	911	104.0%	17	159	1,178	135	0	0	663	616
East South Central	69,647	74,384	-6.4%	47,184	46,978	20,010	25,078	0	0	2,452	2,328
Alabama	29,547	30,820	-4.1%	9,629	9,744	19,918	21,076	0	0	0	0
Kentucky	3,995	8,643	-54.0%	3,913	8,215	83	428	0	0	0	0
Mississippi	26,407	23,019	15.0%	26,398	19,446	9	3,574	0	0	0	0
Tennessee	9,697	11,902	-19.0%	7,245	9,574	0	0	0	0	2,452	2,328
West South Central	219,910	200,938	9.4%	73,210	56,539	93,807	90,854	0	0	52,893	53,545
Arkansas	8,398	8,821	-4.8%	6,973	7,319	1,229	1,220	0	0	197	281
Louisiana	44,228	38,195	16.0%	26,659	18,008	1,212	2,063	0	0	16,357	18,124
Oklahoma	23,800	18,981	25.0%	15,548	11,903	7,770	6,524	0	0	482	555
Texas	143,483	134,941	6.3%	24,030	19,309	83,597	81,047	0	0	35,857	34,585
Mountain	58,671	55,245	6.2%	50,583	45,533	8,050	9,712	0	0	38	0
Arizona	20,716	21,990	-5.8%	16,709	16,837	4,006	5,152	0	0	0	0
Colorado	12,067	9,171	32.0%	10,291	7,296	1,776	1,875	0	0	0	0
Idaho	921	188	390.0%	921	188	0	0	0	0	0	0
Montana	194	158	23.0%	194	158	0	0	0	0	0	0
Nevada	13,840	12,043	15.0%	13,840	12,043	0	0	0	0	0	0
New Mexico	6,872	5,884	17.0%	4,605	3,202	2,267	2,682	0	0	0	0
Utah	3,695	5,603	-34.0%	3,657	5,603	0	0	0	0	38	0
Wyoming	366	208	76.0%	365	205	1	3	0	0	0	0
Pacific Contiguous	60,959	49,951	22.0%	25,130	19,490	33,365	28,284	0	0	2,465	2,178
California	42,653	35,615	20.0%	15,735	13,691	24,454	19,745	0	0	2,465	2,178
Oregon	11,989	10,778	11.0%	4,633	3,941	7,356	6,837	0	0	0	0
Washington	6,317	3,558	78.0%	4,762	1,857	1,555	1,702	0	0	0	0
Pacific Noncontiguous	19	54	-65.0%	19	54	0	0	0	0	0	0
Alaska	19	54	-65.0%	19	54	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	846,496	780,542	8.4%	425,006	374,986	356,790	341,038	722	812	63,979	63,706

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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 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) March 2020 and 2019 (Million Cubic Feet)**

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Electric Utilities		Independent Power Producers								
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	71,848	70,143	2.4%	3	20	71,845	70,123	0	0	0	0
Connecticut	36,621	30,487	20.0%	0	0	36,621	30,487	0	0	0	0
Maine	983	2,201	-55.0%	0	0	983	2,201	0	0	0	0
Massachusetts	21,571	28,266	-24.0%	0	14	21,571	28,252	0	0	0	0
New Hampshire	4,754	3,422	39.0%	3	6	4,751	3,416	0	0	0	0
Rhode Island	7,920	5,767	37.0%	0	0	7,920	5,767	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	316,851	282,691	12.0%	19,769	19,731	294,270	260,279	0	0	2,812	2,682
New Jersey	47,657	59,913	-20.0%	0	0	47,657	59,913	0	0	0	0
New York	79,123	76,659	3.2%	19,769	19,731	57,385	54,940	0	0	1,968	1,987
Pennsylvania	190,070	146,120	30.0%	0	0	189,227	145,426	0	0	843	694
East North Central	278,384	234,580	19.0%	98,031	77,183	174,890	151,414	1,639	1,842	3,824	4,141
Illinois	25,545	15,167	68.0%	5,920	838	19,618	14,325	0	0	7	4
Indiana	52,984	47,441	12.0%	21,901	18,596	31,084	28,845	0	0	0	0
Michigan	70,195	54,967	28.0%	20,924	11,896	46,067	39,408	1,639	1,842	1,564	1,820
Ohio	91,005	84,903	7.2%	13,943	16,017	75,559	67,214	0	0	1,503	1,672
Wisconsin	38,656	32,102	20.0%	35,344	29,836	2,562	1,622	0	0	750	644
West North Central	38,656	37,936	1.9%	31,140	32,342	5,711	3,686	509	465	1,295	1,443
Iowa	11,768	13,457	-13.0%	10,473	12,047	0	0	0	0	1,295	1,410
Kansas	4,422	3,216	38.0%	4,422	3,216	0	0	0	0	0	0
Minnesota	9,569	10,889	-12.0%	9,284	10,775	284	80	0	2	0	33
Missouri	11,770	9,489	24.0%	5,835	5,420	5,427	3,606	508	463	0	0
Nebraska	345	481	-28.0%	345	481	0	0	0	0	0	0
North Dakota	781	403	94.0%	781	403	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	645,857	580,781	11.0%	539,440	490,607	97,016	81,151	0	0	9,401	9,023
Delaware	3,635	4,549	-20.0%	0	0	3,635	4,549	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	292,308	259,941	12.0%	281,707	254,149	9,697	4,786	0	0	903	1,006
Georgia	85,066	78,479	8.4%	64,884	60,720	17,980	15,642	0	0	2,202	2,118
Maryland	23,673	25,755	-8.1%	6,124	9,305	17,549	15,742	0	0	0	708
North Carolina	83,424	75,210	11.0%	69,305	61,636	13,261	13,070	0	0	858	504
South Carolina	43,186	36,343	19.0%	42,509	35,305	229	723	0	0	449	315
Virginia	110,585	97,936	13.0%	74,879	69,058	32,764	26,207	0	0	2,942	2,671
West Virginia	3,981	2,568	55.0%	31	434	1,902	431	0	0	2,048	1,702
East South Central	223,425	208,820	7.0%	152,944	136,476	63,321	65,305	0	0	7,160	7,039
Alabama	84,553	81,013	4.4%	25,350	26,425	59,202	54,588	0	0	0	0
Kentucky	18,738	23,367	-20.0%	18,458	22,244	280	1,123	0	0	0	0
Mississippi	87,176	71,004	23.0%	83,337	61,410	3,839	9,595	0	0	0	0
Tennessee	32,959	33,435	-1.4%	25,799	26,396	0	0	0	0	7,160	7,039
West South Central	678,357	625,540	8.4%	212,945	176,254	300,425	284,837	0	0	164,987	164,449
Arkansas	26,631	28,215	-5.6%	22,338	23,816	3,574	3,588	0	0	719	811
Louisiana	129,537	115,761	12.0%	71,393	53,882	5,859	6,843	0	0	52,285	55,036
Oklahoma	78,099	64,014	22.0%	47,489	39,183	29,264	23,519	0	0	1,346	1,312
Texas	444,090	417,550	6.4%	71,725	59,372	261,728	250,887	0	0	110,637	107,290
Mountain	185,186	166,218	11.0%	155,669	141,087	29,392	25,109	0	0	125	22
Arizona	73,065	62,740	16.0%	54,374	49,892	18,691	12,848	0	0	0	0
Colorado	31,186	28,729	8.6%	26,984	24,331	4,202	4,398	0	0	0	0
Idaho	3,633	2,907	25.0%	3,633	2,907	0	0	0	0	0	0
Montana	570	689	-17.0%	570	689	0	0	0	0	0	0
Nevada	40,166	36,094	11.0%	40,166	36,094	0	0	0	0	0	0
New Mexico	21,215	18,464	15.0%	14,724	10,608	6,491	7,856	0	0	0	0
Utah	14,363	15,996	-10.0%	14,238	15,973	0	0	0	0	125	22
Wyoming	989	599	65.0%	982	593	8	6	0	0	0	0
Pacific Contiguous	169,061	166,283	1.7%	69,010	60,290	92,963	99,064	0	0	7,087	6,929
California	121,139	121,497	-0.3%	44,819	41,422	69,233	73,146	0	0	7,087	6,929
Oregon	32,401	32,591	-0.6%	12,859	11,609	19,542	20,982	0	0	0	0
Washington	15,521	12,195	27.0%	11,332	7,259	4,189	4,936	0	0	0	0
Pacific Noncontiguous	70	186	-62.0%	70	186	0	0	0	0	0	0
Alaska	70	186	-62.0%	70	186	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	2,607,696	2,373,179	9.9%	1,279,024	1,134,175	1,129,835	1,040,968	2,147	2,308	196,690	195,728

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:

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019
New England	W	W	W	3.17	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	3.17	--	--	3.17	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.90	2.00	-5.0%	2.92	--	1.86	2.00
New Jersey	W	W	W	--	--	W	W
New York	--	--	--	--	--	--	--
Pennsylvania	W	W	W	2.92	--	W	W
East North Central	1.91	2.00	-4.5%	2.05	2.14	1.74	1.83
Illinois	W	W	W	1.67	1.89	W	W
Indiana	W	W	W	2.13	2.16	W	W
Michigan	2.01	2.14	-6.1%	2.01	2.14	--	--
Ohio	1.76	1.88	-6.4%	1.86	2.01	1.76	1.86
Wisconsin	2.09	2.26	-7.5%	2.09	2.26	--	--
West North Central	1.56	1.63	-4.3%	1.56	1.63	--	--
Iowa	1.50	1.59	-5.7%	1.50	1.59	--	--
Kansas	1.64	1.65	-0.6%	1.64	1.65	--	--
Minnesota	1.96	2.08	-5.8%	1.96	2.08	--	--
Missouri	1.58	1.70	-7.1%	1.58	1.70	--	--
Nebraska	1.25	1.17	6.8%	1.25	1.17	--	--
North Dakota	1.60	1.53	4.6%	1.60	1.53	--	--
South Dakota	1.62	1.78	-9.0%	1.62	1.78	--	--
South Atlantic	2.46	2.63	-6.5%	2.54	2.65	1.86	2.45
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.61	2.92	-11.0%	2.61	2.92	--	--
Georgia	2.82	2.74	2.9%	2.82	2.74	--	--
Maryland	W	2.70	W	--	--	W	2.70
North Carolina	W	W	W	2.57	2.90	W	W
South Carolina	3.11	3.41	-8.8%	3.11	3.41	--	--
Virginia	2.56	W	W	2.56	2.86	--	W
West Virginia	W	W	W	2.19	2.12	W	W
East South Central	W	W	W	1.92	2.10	W	W
Alabama	1.94	2.42	-20.0%	1.94	2.42	--	--
Kentucky	1.89	1.96	-3.6%	1.89	1.96	--	--
Mississippi	W	W	W	2.87	3.30	W	W
Tennessee	1.86	2.10	-11.0%	1.86	2.10	--	--
West South Central	1.86	1.90	-2.1%	2.06	2.18	1.67	1.60
Arkansas	W	W	W	1.97	1.99	W	W
Louisiana	2.22	W	W	2.22	3.25	--	W
Oklahoma	1.56	1.79	-13.0%	1.56	1.79	--	--
Texas	W	W	W	2.10	2.07	W	W
Mountain	W	W	W	1.92	2.09	W	W
Arizona	2.11	2.62	-19.0%	2.11	2.62	--	--
Colorado	1.83	1.81	1.1%	1.83	1.81	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.29	1.94	W	W
Nevada	W	W	W	2.82	2.89	W	W
New Mexico	2.44	1.74	40.0%	2.44	1.74	--	--
Utah	2.08	2.03	2.5%	2.08	2.03	--	--
Wyoming	W	W	W	1.52	1.91	W	W
Pacific Contiguous	W	W	W	2.19	2.19	W	W
California	--	--	--	--	--	--	--
Oregon	2.19	2.19	0.0%	2.19	2.19	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.64	3.41	W	W
Alaska	3.64	3.41	6.7%	3.64	3.41	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	1.92	2.07	-7.2%	1.97	2.14	1.78	1.88

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:

See Glossary for definitions. Values are preliminary.

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

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

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	W	W	W	3.16	--	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	3.16	--	--	3.16	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.80	2.07	-13.0%	2.92	--	1.79	2.07
New Jersey	W	W	W	--	--	W	W
New York	--	W	W	--	--	--	W
Pennsylvania	W	W	W	2.92	--	W	W
East North Central	1.92	2.01	-4.5%	2.04	2.13	1.76	1.85
Illinois	W	1.83	W	1.69	2.00	W	1.79
Indiana	W	W	W	2.12	2.16	W	W
Michigan	2.01	2.08	-3.4%	2.01	2.08	--	--
Ohio	1.78	W	W	1.85	1.88	1.77	W
Wisconsin	2.08	2.25	-7.6%	2.08	2.25	--	--
West North Central	1.56	1.64	-4.9%	1.56	1.64	--	--
Iowa	1.52	1.58	-3.8%	1.52	1.58	--	--
Kansas	1.60	1.66	-3.6%	1.60	1.66	--	--
Minnesota	1.99	2.07	-3.9%	1.99	2.07	--	--
Missouri	1.58	1.70	-7.1%	1.58	1.70	--	--
Nebraska	1.24	1.21	2.5%	1.24	1.21	--	--
North Dakota	1.55	1.55	0.0%	1.55	1.55	--	--
South Dakota	1.93	1.93	0.0%	1.93	1.93	--	--
South Atlantic	2.47	2.68	-7.8%	2.52	2.72	2.04	2.40
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	2.59	2.90	-11.0%	2.59	2.90	--	--
Georgia	2.75	2.73	0.7%	2.75	2.73	--	--
Maryland	2.61	2.75	-5.1%	--	--	2.61	2.75
North Carolina	W	W	W	2.62	3.24	W	W
South Carolina	3.11	3.26	-4.6%	3.11	3.26	--	--
Virginia	2.49	W	W	2.49	2.80	--	W
West Virginia	W	W	W	2.13	2.11	W	W
East South Central	W	W	W	1.93	2.10	W	W
Alabama	2.01	2.32	-13.0%	2.01	2.32	--	--
Kentucky	1.87	1.96	-4.6%	1.87	1.96	--	--
Mississippi	W	W	W	2.75	3.18	W	W
Tennessee	1.96	2.29	-14.0%	1.96	2.29	--	--
West South Central	1.82	1.92	-5.2%	2.00	2.12	1.65	1.67
Arkansas	W	W	W	1.89	2.03	W	W
Louisiana	W	W	W	2.73	2.95	W	W
Oklahoma	W	W	W	1.57	1.80	W	W
Texas	W	W	W	1.95	2.09	W	W
Mountain	W	W	W	1.96	2.14	W	W
Arizona	2.17	2.64	-18.0%	2.17	2.64	--	--
Colorado	1.71	1.79	-4.5%	1.71	1.79	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	2.29	1.97	W	W
Nevada	W	W	W	2.66	2.94	W	W
New Mexico	2.54	2.41	5.4%	2.54	2.41	--	--
Utah	2.09	1.99	5.0%	2.09	1.99	--	--
Wyoming	W	W	W	1.69	1.90	W	W
Pacific Contiguous	W	W	W	2.18	2.17	W	W
California	--	--	--	--	--	--	--
Oregon	2.18	2.17	0.5%	2.18	2.17	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.81	3.46	W	W
Alaska	3.81	3.46	10.0%	3.81	3.46	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	1.92	2.08	-7.7%	1.97	2.15	1.78	1.87

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

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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.

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, March 2020 and 2019  
(Dollars per MMBtu)**

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019
New England	11.46	13.46	-15.0%	17.91	17.51	11.16	12.88
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	17.91	17.51	2.3%	17.91	17.51	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	8.98	13.54	-34.0%	--	13.27	8.98	15.46
New Jersey	--	W	W	--	--	--	W
New York	W	W	W	--	13.27	W	W
Pennsylvania	W	W	W	--	--	W	W
East North Central	W	15.58	W	9.03	15.58	W	15.60
Illinois	W	W	W	--	15.97	W	W
Indiana	9.64	15.41	-37.0%	9.64	15.41	--	--
Michigan	7.97	15.16	-47.0%	7.97	15.16	--	--
Ohio	W	W	W	10.22	15.97	W	W
Wisconsin	7.01	15.20	-54.0%	7.01	15.20	--	--
West North Central	9.55	15.24	-37.0%	9.55	15.24	--	--
Iowa	9.72	15.47	-37.0%	9.72	15.47	--	--
Kansas	9.81	--	--	9.81	--	--	--
Minnesota	11.41	15.60	-27.0%	11.41	15.60	--	--
Missouri	9.01	15.33	-41.0%	9.01	15.33	--	--
Nebraska	13.12	--	--	13.12	--	--	--
North Dakota	9.46	14.38	-34.0%	9.46	14.38	--	--
South Dakota	8.82	--	--	8.82	--	--	--
South Atlantic	9.99	W	W	10.01	15.93	9.20	W
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	9.88	16.19	-39.0%	9.88	16.19	--	--
Georgia	W	14.73	W	9.03	14.73	W	--
Maryland	W	W	W	--	--	W	W
North Carolina	9.40	15.16	-38.0%	9.40	15.16	--	--
South Carolina	10.18	15.67	-35.0%	10.18	15.67	--	--
Virginia	W	W	W	15.18	15.78	W	W
West Virginia	11.02	16.02	-31.0%	11.02	16.02	--	--
East South Central	9.44	14.83	-36.0%	9.44	14.83	--	--
Alabama	9.48	15.49	-39.0%	9.48	15.49	--	--
Kentucky	9.24	14.99	-38.0%	9.24	14.99	--	--
Mississippi	10.73	14.53	-26.0%	10.73	14.53	--	--
Tennessee	9.39	14.33	-34.0%	9.39	14.33	--	--
West South Central	W	W	W	9.19	13.70	W	W
Arkansas	W	W	W	9.52	15.08	W	W
Louisiana	--	--	--	--	--	--	--
Oklahoma	8.59	15.92	-46.0%	8.59	15.92	--	--
Texas	W	W	W	11.60	12.86	W	W
Mountain	W	W	W	13.88	15.91	W	W
Arizona	14.61	15.43	-5.3%	14.61	15.43	--	--
Colorado	11.62	17.06	-32.0%	11.62	17.06	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	W	W	--	--	--	W
Nevada	W	W	W	15.77	14.89	W	W
New Mexico	15.33	15.36	-0.2%	15.33	15.36	--	--
Utah	W	15.59	W	13.36	15.59	W	--
Wyoming	11.17	18.09	-38.0%	11.17	18.09	--	--
Pacific Contiguous	--	W	W	--	16.52	--	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	W	W	--	16.52	--	W
Pacific Noncontiguous	W	W	W	10.49	13.82	W	W
Alaska	12.13	15.54	-22.0%	12.13	15.54	--	--
Hawaii	W	W	W	10.48	13.81	W	W
U.S. Total	10.47	14.43	-27.0%	10.36	14.34	10.89	14.88

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	13.16	W	W	17.38	17.71	12.81	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	17.38	17.71	-1.9%	17.38	17.71	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	11.80	12.76	-7.5%	--	12.15	11.80	13.61
New Jersey	W	W	W	--	--	W	W
New York	W	12.67	W	--	12.15	W	14.99
Pennsylvania	11.46	W	W	--	--	11.46	W
East North Central	W	14.85	W	11.33	14.64	W	15.15
Illinois	13.78	W	W	13.43	15.97	13.79	W
Indiana	11.48	14.73	-22.0%	11.48	14.73	--	--
Michigan	11.13	13.17	-15.0%	11.13	13.17	--	--
Ohio	W	14.61	W	12.81	15.68	W	13.88
Wisconsin	W	W	W	10.04	14.76	W	W
West North Central	11.37	14.43	-21.0%	11.37	14.43	--	--
Iowa	11.36	14.74	-23.0%	11.36	14.74	--	--
Kansas	11.42	14.66	-22.0%	11.42	14.66	--	--
Minnesota	12.74	14.95	-15.0%	12.74	14.95	--	--
Missouri	11.40	14.28	-20.0%	11.40	14.28	--	--
Nebraska	13.12	14.52	-9.6%	13.12	14.52	--	--
North Dakota	11.46	14.04	-18.0%	11.46	14.04	--	--
South Dakota	8.82	--	--	8.82	--	--	--
South Atlantic	12.95	14.82	-13.0%	12.97	14.92	11.91	13.72
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	11.31	15.93	-29.0%	11.31	15.93	--	--
Georgia	W	W	W	12.67	14.20	W	W
Maryland	W	W	W	--	--	W	W
North Carolina	13.16	14.52	-9.4%	13.16	14.52	--	--
South Carolina	12.91	14.94	-14.0%	12.91	14.94	--	--
Virginia	W	W	W	14.35	12.84	W	W
West Virginia	13.43	15.33	-12.0%	13.43	15.33	--	--
East South Central	12.28	W	W	12.28	14.22	--	W
Alabama	9.91	W	W	9.91	14.90	--	W
Kentucky	12.27	14.32	-14.0%	12.27	14.32	--	--
Mississippi	11.64	14.04	-17.0%	11.64	14.04	--	--
Tennessee	12.55	13.88	-9.6%	12.55	13.88	--	--
West South Central	11.63	W	W	11.58	14.49	11.78	W
Arkansas	W	W	W	11.55	14.66	W	W
Louisiana	14.54	--	--	14.54	--	--	--
Oklahoma	9.18	15.26	-40.0%	9.18	15.26	--	--
Texas	W	W	W	13.13	14.13	W	W
Mountain	14.83	W	W	14.79	16.15	15.82	W
Arizona	14.70	14.92	-1.5%	14.70	14.92	--	--
Colorado	12.13	17.06	-29.0%	12.13	17.06	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	16.48	14.66	W	W
New Mexico	16.01	17.79	-10.0%	16.01	17.79	--	--
Utah	W	17.61	W	15.16	17.61	W	--
Wyoming	13.66	15.96	-14.0%	13.66	15.96	--	--
Pacific Contiguous	W	W	W	--	16.52	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	16.52	W	W
Pacific Noncontiguous	W	W	W	12.17	12.84	W	W
Alaska	14.64	15.54	-5.8%	14.64	15.54	--	--
Hawaii	W	W	W	12.16	12.83	W	W
U.S. Total	12.36	13.27	-6.9%	12.25	13.30	12.97	13.19

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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, March 2020 and 2019  
(Dollars per MMBtu)**

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.29	1.89	-32.0%	1.29	1.89	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.20	--	--	1.20	--	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.87	1.89	-1.1%	1.87	1.89	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	--	2.86	--	--	2.86	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	--	2.86	--	--	2.86	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.38	2.27	-39.0%	1.38	2.27	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.38	2.27	-39.0%	1.38	2.27	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.36	2.43	-44.0%	1.36	2.43	--	--

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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) March 2020 and 2019  
(Dollars per MMBtu)**

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	1.30	1.65	-21.0%	1.30	1.65	--	--
Illinois	--	--	--	--	--	--	--
Indiana	--	--	--	--	--	--	--
Michigan	1.20	1.57	-24.0%	1.20	1.57	--	--
Ohio	--	--	--	--	--	--	--
Wisconsin	1.87	1.89	-1.1%	1.87	1.89	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.87	2.69	-30.0%	1.87	2.69	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.87	2.69	-30.0%	1.87	2.69	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	--	--	--	--	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	--	--	--	--	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.34	2.15	-38.0%	1.34	2.15	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.34	2.15	-38.0%	1.34	2.15	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.47	2.24	-34.0%	1.47	2.24	--	--

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2020	March 2019	Percentage Change	March 2020	March 2019	March 2020	March 2019
New England	W	W	W	--	11.00	W	W
Connecticut	2.33	3.98	-41.0%	--	--	2.33	3.98
Maine	--	W	W	--	--	--	W
Massachusetts	W	5.07	W	--	--	W	5.07
New Hampshire	--	W	W	--	11.00	--	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.80	3.20	-44.0%	2.57	4.02	1.74	3.13
New Jersey	2.12	3.58	-41.0%	--	--	2.12	3.58
New York	2.12	3.78	-44.0%	2.57	4.02	1.95	3.68
Pennsylvania	1.58	2.78	-43.0%	--	--	1.58	2.78
East North Central	1.80	3.12	-42.0%	1.94	3.27	1.72	3.04
Illinois	W	W	W	1.77	3.37	W	W
Indiana	1.82	W	W	1.92	3.30	1.74	W
Michigan	1.82	3.16	-42.0%	1.94	3.42	1.77	3.07
Ohio	1.69	2.91	-42.0%	1.64	3.04	1.70	2.88
Wisconsin	W	3.31	W	2.12	3.31	W	--
West North Central	W	W	W	2.01	3.46	W	W
Iowa	1.64	2.55	-36.0%	1.64	2.55	--	--
Kansas	2.03	5.68	-64.0%	2.03	5.68	--	--
Minnesota	W	W	W	2.37	3.86	W	W
Missouri	W	W	W	1.73	3.59	W	W
Nebraska	4.29	3.86	11.0%	4.29	3.86	--	--
North Dakota	2.73	4.38	-38.0%	2.73	4.38	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.68	3.88	-31.0%	2.79	3.98	1.96	3.21
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	2.92	4.19	W	W
Georgia	W	W	W	2.24	3.45	W	W
Maryland	2.31	3.35	-31.0%	2.17	3.31	2.36	3.37
North Carolina	W	W	W	3.31	4.04	W	W
South Carolina	2.64	3.47	-24.0%	2.64	3.47	--	--
Virginia	2.19	3.67	-40.0%	2.36	3.89	1.63	3.04
West Virginia	W	3.34	W	1.82	3.34	W	3.33
East South Central	2.26	3.24	-30.0%	2.34	3.29	1.99	3.13
Alabama	W	W	W	2.29	3.24	W	W
Kentucky	W	W	W	3.14	3.58	W	W
Mississippi	W	W	W	2.17	3.27	W	W
Tennessee	2.58	3.11	-17.0%	2.58	3.11	--	--
West South Central	1.76	2.93	-40.0%	1.77	3.01	1.75	2.87
Arkansas	W	W	W	1.84	3.15	W	W
Louisiana	W	W	W	1.93	3.16	W	W
Oklahoma	W	W	W	1.75	3.52	W	W
Texas	1.72	2.77	-38.0%	1.58	2.49	1.77	2.85
Mountain	2.00	3.42	-42.0%	1.94	3.41	2.98	3.49
Arizona	W	W	W	1.64	2.22	W	W
Colorado	W	W	W	2.42	3.98	W	W
Idaho	2.40	40.19	-94.0%	2.40	40.19	--	--
Montana	0.97	2.87	-66.0%	0.97	2.87	--	--
Nevada	2.25	4.22	-47.0%	2.25	4.22	--	--
New Mexico	0.88	1.44	-39.0%	0.88	1.44	--	--
Utah	2.00	4.07	-51.0%	2.00	4.07	--	--
Wyoming	W	W	W	1.67	2.96	W	W
Pacific Contiguous	2.37	4.78	-50.0%	2.43	4.85	2.31	4.72
California	2.50	4.42	-43.0%	2.67	4.91	2.35	4.02
Oregon	W	W	W	1.74	3.82	W	W
Washington	W	W	W	2.44	6.64	W	W
Pacific Noncontiguous	7.87	7.72	1.9%	7.87	7.72	--	--
Alaska	7.87	7.72	1.9%	7.87	7.72	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.16	3.48	-38.0%	2.36	3.66	1.87	3.25

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

See Glossary for definitions. Values are preliminary.

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

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	March 2020 YTD	March 2019 YTD	Percentage Change	March 2020 YTD	March 2019 YTD	March 2020 YTD	March 2019 YTD
New England	W	W	W	11.36	11.01	W	W
Connecticut	3.03	5.43	-44.0%	--	--	3.03	5.43
Maine	W	W	W	--	--	W	W
Massachusetts	5.16	W	W	--	10.99	5.16	W
New Hampshire	W	W	W	11.36	11.07	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.11	3.65	-42.0%	3.45	5.42	2.00	3.50
New Jersey	2.30	3.95	-42.0%	--	--	2.30	3.95
New York	2.61	4.59	-43.0%	3.45	5.42	2.27	4.24
Pennsylvania	1.83	3.09	-41.0%	--	--	1.83	3.09
East North Central	1.97	3.13	-37.0%	2.14	3.34	1.87	3.02
Illinois	W	W	W	1.92	4.08	W	W
Indiana	2.02	W	W	2.19	3.26	1.91	W
Michigan	2.00	3.15	-37.0%	2.12	3.39	1.94	3.08
Ohio	1.81	2.95	-39.0%	1.80	3.10	1.81	2.92
Wisconsin	W	3.47	W	2.30	3.47	W	--
West North Central	W	W	W	2.20	3.50	W	W
Iowa	1.93	3.17	-39.0%	1.93	3.17	--	--
Kansas	2.39	4.41	-46.0%	2.39	4.41	--	--
Minnesota	W	W	W	2.41	3.72	W	W
Missouri	W	W	W	1.93	3.34	W	W
Nebraska	5.64	3.79	49.0%	5.64	3.79	--	--
North Dakota	2.83	5.07	-44.0%	2.83	5.07	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.96	4.15	-29.0%	3.09	4.25	2.11	3.40
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.16	4.42	W	W
Georgia	W	W	W	2.35	3.55	W	W
Maryland	2.48	W	W	2.45	4.26	2.48	W
North Carolina	W	W	W	3.36	4.27	W	W
South Carolina	2.73	3.66	-25.0%	2.73	3.66	--	--
Virginia	3.08	W	W	3.47	4.52	1.78	W
West Virginia	W	3.26	W	2.09	3.22	W	3.30
East South Central	2.40	3.35	-28.0%	2.47	3.41	2.19	3.19
Alabama	W	W	W	2.44	3.40	W	W
Kentucky	W	W	W	3.32	3.90	W	W
Mississippi	W	W	W	2.29	3.31	W	W
Tennessee	2.45	3.23	-24.0%	2.45	3.23	--	--
West South Central	1.89	2.98	-37.0%	1.92	3.03	1.86	2.94
Arkansas	W	W	W	2.01	3.06	W	W
Louisiana	W	W	W	2.11	3.19	W	W
Oklahoma	W	W	W	1.93	3.17	W	W
Texas	1.82	2.90	-37.0%	1.71	2.78	1.86	2.94
Mountain	2.36	3.72	-37.0%	2.32	3.68	2.71	4.10
Arizona	W	W	W	2.03	2.83	W	W
Colorado	W	W	W	2.66	3.66	W	W
Idaho	2.25	8.11	-72.0%	2.25	8.11	--	--
Montana	1.46	2.42	-40.0%	1.46	2.42	--	--
Nevada	2.81	4.50	-38.0%	2.81	4.50	--	--
New Mexico	1.08	2.15	-50.0%	1.08	2.15	--	--
Utah	2.69	4.55	-41.0%	2.69	4.55	--	--
Wyoming	W	W	W	1.83	3.16	W	W
Pacific Contiguous	2.80	5.18	-46.0%	2.90	5.44	2.69	4.95
California	2.95	5.35	-45.0%	3.17	6.01	2.75	4.83
Oregon	W	W	W	2.05	3.53	W	W
Washington	W	W	W	2.97	5.70	W	W
Pacific Noncontiguous	7.87	7.72	1.9%	7.87	7.72	--	--
Alaska	7.87	7.72	1.9%	7.87	7.72	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.41	3.73	-35.0%	2.63	3.89	2.12	3.53

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:

See Glossary for definitions. Values are preliminary.

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

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

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

**Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, March 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	28	2.63	7.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	4	0.60	5.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	24	2.97	8.1	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	633	2.75	10.7	0	--	--	0	--	--
New Jersey	31	1.75	7.6	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	602	2.81	10.8	0	--	--	0	--	--
East North Central	4,222	3.31	10.7	3,336	0.23	4.7	0	--	--
Illinois	768	3.37	21.7	1,251	0.21	4.6	0	--	--
Indiana	1,641	2.88	8.9	174	0.23	4.4	0	--	--
Michigan	184	2.32	7.6	757	0.24	4.9	0	--	--
Ohio	1,596	3.82	8.9	15	0.27	4.5	0	--	--
Wisconsin	31	2.22	7.6	1,139	0.24	4.6	0	--	--
West North Central	60	2.80	9.9	6,115	0.28	4.8	1,687	0.83	10.2
Iowa	50	2.74	9.3	1,169	0.27	4.7	0	--	--
Kansas	10	3.08	12.9	694	0.31	5.0	0	--	--
Minnesota	0	--	--	536	0.36	5.8	0	--	--
Missouri	0	--	--	2,584	0.24	4.7	0	--	--
Nebraska	0	--	--	1,022	0.25	4.7	0	--	--
North Dakota	0	--	--	0	--	--	1,687	0.83	10.2
South Dakota	0	--	--	110	0.76	5.3	0	--	--
South Atlantic	3,579	2.25	9.8	238	0.36	5.1	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	365	2.52	8.0	0	--	--	0	--	--
Georgia	280	2.46	8.3	238	0.36	5.1	0	--	--
Maryland	76	2.09	14.3	0	--	--	0	--	--
North Carolina	685	1.50	9.7	0	--	--	0	--	--
South Carolina	475	1.81	8.6	0	--	--	0	--	--
Virginia	164	0.91	19.7	0	--	--	0	--	--
West Virginia	1,534	2.74	9.9	0	--	--	0	--	--
East South Central	2,167	2.75	9.2	1,050	0.28	5.1	311	0.53	14.6
Alabama	77	0.72	10.7	753	0.29	5.2	0	--	--
Kentucky	1,695	2.95	9.4	234	0.24	4.9	0	--	--
Mississippi	12	0.46	7.8	64	0.28	5.3	311	0.53	14.6
Tennessee	382	2.33	8.2	0	--	--	0	--	--
West South Central	78	2.57	9.7	3,637	0.29	5.1	1,389	1.06	17.9
Arkansas	7	0.43	11.1	752	0.23	4.9	0	--	--
Louisiana	68	2.86	8.8	131	0.23	4.8	62	0.48	15.6
Oklahoma	2	0.46	49.8	126	0.19	4.4	0	--	--
Texas	0	--	--	2,628	0.32	5.2	1,327	1.09	18.0
Mountain	1,306	0.60	13.6	4,110	0.53	8.5	26	0.55	9.5
Arizona	0	--	--	681	0.71	10.5	0	--	--
Colorado	0	--	--	796	0.35	6.3	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	574	0.77	9.9	26	0.55	9.5
Nevada	11	0.37	11.7	43	0.35	6.6	0	--	--
New Mexico	216	0.82	23.2	332	0.77	19.4	0	--	--
Utah	1,079	0.56	12.0	48	1.03	8.1	0	--	--
Wyoming	0	--	--	1,636	0.40	6.2	0	--	--
Pacific Contiguous	65	0.40	10.5	341	0.42	6.8	0	--	--
California	65	0.40	10.5	0	--	--	0	--	--
Oregon	0	--	--	107	0.26	4.9	0	--	--
Washington	0	--	--	233	0.50	7.8	0	--	--
Pacific Noncontiguous	0	--	--	59	0.30	4.0	26	0.13	8.4
Alaska	0	--	--	0	--	--	26	0.13	8.4
Hawaii	0	--	--	59	0.30	4.0	0	--	--
U.S. Total	12,138	2.56	10.4	18,887	0.33	5.7	3,439	0.89	13.6

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:**

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, March 2020**

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	24	2.97	8.1	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	24	2.97	8.1	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	31	3.19	8.5	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	31	3.19	8.5	0	--	--	0	--	--
East North Central	1,818	2.82	8.8	2,382	0.23	4.7	0	--	--
Illinois	65	2.65	11.0	312	0.20	4.6	0	--	--
Indiana	1,430	2.83	8.9	174	0.23	4.4	0	--	--
Michigan	184	2.32	7.6	757	0.24	4.9	0	--	--
Ohio	108	3.80	8.7	0	--	--	0	--	--
Wisconsin	31	2.22	7.6	1,139	0.24	4.6	0	--	--
West North Central	10	3.08	12.9	5,928	0.28	4.9	1,687	0.83	10.2
Iowa	0	--	--	1,045	0.27	4.8	0	--	--
Kansas	10	3.08	12.9	694	0.31	5.0	0	--	--
Minnesota	0	--	--	536	0.36	5.8	0	--	--
Missouri	0	--	--	2,584	0.24	4.7	0	--	--
Nebraska	0	--	--	959	0.25	4.8	0	--	--
North Dakota	0	--	--	0	--	--	1,687	0.83	10.2
South Dakota	0	--	--	110	0.76	5.3	0	--	--
South Atlantic	3,092	2.18	9.5	238	0.36	5.1	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	354	2.58	8.0	0	--	--	0	--	--
Georgia	269	2.53	8.2	238	0.36	5.1	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	664	1.52	9.8	0	--	--	0	--	--
South Carolina	475	1.81	8.6	0	--	--	0	--	--
Virginia	148	0.93	21.6	0	--	--	0	--	--
West Virginia	1,182	2.62	9.2	0	--	--	0	--	--
East South Central	2,102	2.82	9.3	1,050	0.28	5.1	0	--	--
Alabama	77	0.72	10.7	753	0.29	5.2	0	--	--
Kentucky	1,695	2.95	9.4	234	0.24	4.9	0	--	--
Mississippi	12	0.46	7.8	64	0.28	5.3	0	--	--
Tennessee	317	2.64	8.5	0	--	--	0	--	--
West South Central	70	2.81	9.5	1,865	0.27	4.9	542	1.53	20.8
Arkansas	0	--	--	554	0.22	4.6	0	--	--
Louisiana	68	2.86	8.8	131	0.23	4.8	62	0.48	15.6
Oklahoma	2	0.46	49.8	112	0.19	4.5	0	--	--
Texas	0	--	--	1,069	0.32	5.1	479	1.68	21.5
Mountain	1,306	0.60	13.6	3,466	0.50	8.4	26	0.55	9.5
Arizona	0	--	--	681	0.71	10.5	0	--	--
Colorado	0	--	--	796	0.35	6.3	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	26	0.55	9.5
Nevada	11	0.37	11.7	13	0.45	8.3	0	--	--
New Mexico	216	0.82	23.2	332	0.77	19.4	0	--	--
Utah	1,079	0.56	12.0	48	1.03	8.1	0	--	--
Wyoming	0	--	--	1,596	0.40	6.2	0	--	--
Pacific Contiguous	0	--	--	107	0.26	4.9	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	107	0.26	4.9	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	26	0.13	8.4
Alaska	0	--	--	0	--	--	26	0.13	8.4
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	8,453	2.26	9.9	15,036	0.32	5.7	2,281	0.97	12.5

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 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, March 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	4	0.60	5.4	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	4	0.60	5.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	591	2.73	10.8	0	--	--	0	--	--
New Jersey	31	1.75	7.6	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	560	2.79	11.0	0	--	--	0	--	--
East North Central	2,295	3.69	12.3	902	0.21	4.5	0	--	--
Illinois	595	3.44	26.3	886	0.21	4.5	0	--	--
Indiana	212	3.21	8.9	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	1,488	3.82	8.9	15	0.27	4.5	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	429	2.95	12.5	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	76	2.09	14.3	0	--	--	0	--	--
North Carolina	2	0.69	5.8	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	352	3.15	12.2	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	311	0.53	14.6
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	311	0.53	14.6
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	1,757	0.31	5.2	848	0.80	16.2
Arkansas	0	--	--	198	0.23	5.7	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	1,559	0.32	5.2	848	0.80	16.2
Mountain	0	--	--	644	0.72	9.4	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	574	0.77	9.9	0	--	--
Nevada	0	--	--	30	0.31	5.8	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	40	0.36	5.3	0	--	--
Pacific Contiguous	0	--	--	233	0.50	7.8	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	233	0.50	7.8	0	--	--
Pacific Noncontiguous	0	--	--	59	0.30	4.0	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	59	0.30	4.0	0	--	--
U.S. Total	3,319	3.41	12.0	3,596	0.37	5.9	1,158	0.74	15.8

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:**

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, March 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, March 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	11	2.57	8.3	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	11	2.57	8.3	0	--	--	0	--	--
East North Central	109	3.50	8.8	52	0.22	5.6	0	--	--
Illinois	109	3.50	8.8	52	0.22	5.6	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	50	2.74	9.3	188	0.24	4.1	0	--	--
Iowa	50	2.74	9.3	124	0.26	3.9	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	64	0.21	4.4	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	59	0.80	7.6	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	11	0.78	7.5	0	--	--	0	--	--
Georgia	11	0.90	9.6	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	19	0.81	7.1	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	17	0.74	7.1	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	65	0.97	6.8	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	65	0.97	6.8	0	--	--	0	--	--
West South Central	7	0.43	11.1	15	0.20	4.3	0	--	--
Arkansas	7	0.43	11.1	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	15	0.20	4.3	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	65	0.40	10.5	0	--	--	0	--	--
California	65	0.40	10.5	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	366	1.80	8.6	255	0.24	4.4	0	--	--

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

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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

See Glossary for definitions. Values for 2019 and 2020 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

## Chapter 5

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

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

Period	Residential	Commercial	Industrial	Transportation	All Sectors
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	369,887	325,719	236,604	1,999	934,209
2019	361,400	319,869	228,156	2,064	911,489
2020	339,667	312,686	230,519	1,939	884,810
<b>Rolling 12 Months Ending in March</b>					
2019	1,460,606	1,375,905	992,225	7,730	3,836,465
2020	1,413,414	1,347,362	954,512	7,572	3,722,859

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 - March 2020 (Million Dollars)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	46,462	34,354	16,044	190	97,050
2019	45,826	33,353	15,198	203	94,580
2020	43,810	32,356	14,718	184	91,068
<b>Rolling 12 Months Ending in March</b>					
2019	188,396	146,425	68,373	756	403,950
2020	185,086	143,455	64,553	731	393,825

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 - March 2020 (Cents per Kilowatthour)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	12.56	10.55	6.78	9.52	10.39
2019	12.68	10.43	6.66	9.81	10.38
2020	12.90	10.35	6.38	9.50	10.29
<b>Rolling 12 Months Ending in March</b>					
2019	12.90	10.64	6.89	9.78	10.53
2020	13.09	10.65	6.76	9.65	10.58

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, March 2020 and 2019 (Thousand Megawatthours)**

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	3,613	3,908	3,943	4,162	1,229	1,335	43	60	8,828	9,464
Connecticut	937	1,044	906	977	220	248	13	27	2,076	2,296
Maine	424	440	335	370	243	290	0	0	1,001	1,100
Massachusetts	1,490	1,622	1,911	2,014	455	467	28	31	3,884	4,134
New Hampshire	373	387	334	353	152	151	0	0	859	890
Rhode Island	213	235	307	288	48	65	3	2	570	589
Vermont	176	180	151	160	111	115	0	0	437	455
Middle Atlantic	9,649	11,024	11,494	12,637	5,880	5,894	288	332	27,311	29,887
New Jersey	1,851	2,098	2,889	3,102	518	567	25	26	5,283	5,794
New York	3,799	4,051	5,723	5,958	1,314	1,327	230	245	11,065	11,581
Pennsylvania	4,000	4,875	2,882	3,577	4,048	4,000	33	61	10,963	12,512
East North Central	13,990	15,725	13,730	15,002	14,706	15,308	49	86	42,475	46,121
Illinois	3,234	3,654	3,831	4,089	3,238	3,402	43	79	10,347	11,224
Indiana	2,482	2,792	1,808	1,918	3,330	3,520	2	2	7,621	8,231
Michigan	2,673	2,812	2,809	3,174	2,205	2,392	1	1	7,687	8,379
Ohio	3,818	4,577	3,426	3,838	3,997	4,012	4	4	11,244	12,432
Wisconsin	1,784	1,890	1,856	1,984	1,935	1,981	0	0	5,576	5,855
West North Central	8,135	9,237	7,898	8,499	7,281	7,124	4	5	23,318	24,864
Iowa	1,129	1,354	953	1,076	1,911	1,854	0	0	3,994	4,285
Kansas	893	981	1,143	1,210	802	872	0	0	2,838	3,063
Minnesota	1,837	2,002	1,810	1,960	1,709	1,748	2	2	5,359	5,712
Missouri	2,550	2,880	2,240	2,437	923	906	2	2	5,716	6,226
Nebraska	827	997	748	781	848	780	0	0	2,423	2,558
North Dakota	462	522	601	598	858	751	0	0	1,921	1,871
South Dakota	435	500	403	436	230	213	0	0	1,068	1,149
South Atlantic	25,873	27,196	23,854	24,353	11,155	11,324	118	110	61,000	62,984
Delaware	379	426	327	342	142	152	0	0	848	920
District of Columbia	167	212	528	644	27	16	25	25	747	898
Florida	8,952	8,567	7,402	7,273	1,356	1,307	7	7	17,717	17,155
Georgia	4,056	4,085	3,438	3,541	2,460	2,597	14	13	9,969	10,236
Maryland	1,963	2,361	2,070	2,305	274	309	54	46	4,362	5,022
North Carolina	4,098	4,507	3,640	3,734	2,193	2,179	1	1	9,931	10,421
South Carolina	2,134	2,130	1,611	1,635	2,142	2,136	0	0	5,888	5,901
Virginia	3,279	3,833	4,302	4,241	1,291	1,375	16	17	8,889	9,466
West Virginia	846	1,073	536	638	1,268	1,253	0	0	2,650	2,965
East South Central	8,695	9,190	6,667	6,930	7,784	7,917	0	0	23,146	24,037
Alabama	2,203	2,280	1,627	1,649	2,647	2,729	0	0	6,478	6,658
Kentucky	1,962	2,251	1,409	1,562	2,252	2,280	0	0	5,623	6,093
Mississippi	1,319	1,322	1,000	994	1,372	1,356	0	0	3,691	3,671
Tennessee	3,211	3,336	2,631	2,725	1,513	1,553	0	0	7,355	7,614
West South Central	14,978	15,914	14,929	14,193	15,869	14,990	15	15	45,791	45,112
Arkansas	1,390	1,541	849	891	1,369	1,380	0	0	3,607	3,811
Louisiana	2,111	2,117	1,831	1,809	2,737	2,684	1	1	6,681	6,611
Oklahoma	1,581	1,830	1,370	1,394	1,724	1,528	0	0	4,675	4,752
Texas	9,895	10,426	10,879	10,099	10,039	9,398	14	14	30,827	29,937
Mountain	6,864	7,125	7,409	7,597	6,663	6,579	14	14	20,950	21,316
Arizona	1,962	2,006	2,047	2,122	1,034	1,090	1	1	5,043	5,219
Colorado	1,480	1,545	1,629	1,704	1,338	1,278	8	9	4,456	4,536
Idaho	741	784	504	509	519	530	0	0	1,764	1,823
Montana	478	576	409	428	375	381	0	0	1,263	1,385
Nevada	763	746	912	898	1,036	1,012	1	1	2,712	2,656
New Mexico	473	496	718	708	760	673	0	0	1,951	1,877
Utah	701	691	885	915	785	727	4	4	2,376	2,338
Wyoming	266	281	304	312	815	888	0	0	1,385	1,482
Pacific Contiguous	11,774	12,448	12,552	13,062	6,545	6,353	73	67	30,943	31,929
California	6,321	6,718	8,836	9,133	3,680	3,440	61	57	18,898	19,348
Oregon	1,826	1,901	1,340	1,352	974	914	2	2	4,141	4,169
Washington	3,628	3,829	2,376	2,578	1,891	1,998	10	7	7,904	8,413
Pacific Noncontiguous	402	374	457	453	397	375	0	0	1,256	1,202
Alaska	193	178	231	228	112	106	0	0	536	512
Hawaii	209	196	226	225	285	269	0	0	720	690
U.S. Total	103,973	112,140	102,933	106,889	77,509	77,198	604	689	285,019	296,916

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 March 2020 and 2019 (Thousand Megawatthours)**

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2020 YTD	March 2019 YTD								
New England	11,699	12,404	12,153	12,752	3,708	3,815	139	153	27,699	29,123
Connecticut	3,103	3,356	2,848	2,960	689	727	43	51	6,683	7,094
Maine	1,308	1,387	1,018	1,126	652	727	0	0	2,978	3,240
Massachusetts	4,831	5,062	6,067	6,233	1,412	1,392	89	95	12,399	12,782
New Hampshire	1,198	1,248	977	1,067	454	457	0	0	2,629	2,772
Rhode Island	697	753	771	876	156	167	8	7	1,631	1,802
Vermont	562	597	472	491	344	345	0	0	1,378	1,433
Middle Atlantic	32,152	35,252	35,935	38,603	17,957	17,666	913	1,055	86,958	92,575
New Jersey	6,098	6,655	8,850	9,241	1,557	1,670	73	79	16,577	17,646
New York	12,077	12,737	17,800	18,443	3,979	4,137	719	782	34,574	36,099
Pennsylvania	13,978	15,859	9,286	10,919	12,421	11,858	122	194	35,806	38,830
East North Central	46,422	50,040	43,116	44,553	43,956	44,839	202	202	133,696	139,634
Illinois	10,811	11,663	11,917	12,333	10,073	10,322	184	181	32,984	34,499
Indiana	8,322	9,089	5,556	5,776	10,034	10,095	5	6	23,917	24,965
Michigan	8,356	8,804	9,001	9,301	6,767	7,048	2	2	24,126	25,155
Ohio	13,216	14,436	10,938	11,296	11,390	11,599	11	13	35,555	37,344
Wisconsin	5,718	6,048	5,703	5,846	5,692	5,775	0	0	17,113	17,670
West North Central	27,585	29,939	24,714	25,603	21,738	21,117	13	15	74,050	76,674
Iowa	3,860	4,240	3,051	3,184	5,811	5,572	0	0	12,723	12,996
Kansas	3,041	3,309	3,509	3,684	2,534	2,621	0	0	9,084	9,614
Minnesota	5,932	6,281	5,562	5,690	5,021	5,038	6	8	16,521	17,017
Missouri	8,969	9,749	7,150	7,495	2,695	2,673	7	7	18,821	19,923
Nebraska	2,774	3,060	2,330	2,399	2,487	2,326	0	0	7,591	7,786
North Dakota	1,576	1,743	1,854	1,848	2,508	2,240	0	0	5,938	5,831
South Dakota	1,432	1,556	1,258	1,303	682	647	0	0	3,373	3,506
South Atlantic	83,672	88,250	71,390	72,088	33,006	33,004	362	339	188,431	193,680
Delaware	1,211	1,369	1,004	1,029	455	455	0	0	2,670	2,852
District of Columbia	575	658	1,747	1,896	59	45	85	78	2,467	2,677
Florida	25,963	26,030	21,231	20,987	3,969	3,774	20	21	51,184	50,813
Georgia	13,486	13,687	10,588	10,641	7,414	7,575	41	42	31,528	31,944
Maryland	6,806	7,807	6,577	6,961	813	886	155	141	14,352	15,795
North Carolina	14,268	15,077	11,229	11,202	6,339	6,224	4	4	31,841	32,508
South Carolina	7,277	7,285	4,927	4,816	6,242	6,442	0	0	18,446	18,543
Virginia	11,045	12,845	12,321	12,637	4,044	4,005	56	52	27,466	29,539
West Virginia	3,042	3,492	1,765	1,919	3,671	3,599	0	0	8,478	9,009
East South Central	29,043	30,553	20,666	21,029	23,320	23,444	0	0	73,029	75,026
Alabama	7,416	7,635	4,970	5,030	8,012	8,051	0	0	20,398	20,716
Kentucky	6,719	7,261	4,482	4,614	6,691	6,770	0	0	17,893	18,644
Mississippi	4,312	4,485	2,971	3,016	4,078	4,014	0	0	11,361	11,514
Tennessee	10,595	11,172	8,243	8,369	4,539	4,610	0	0	23,377	24,151
West South Central	48,647	51,657	43,906	43,200	46,452	44,850	46	47	139,050	139,753
Arkansas	4,636	4,933	2,606	2,709	4,131	4,117	0	0	11,372	11,759
Louisiana	6,812	7,060	5,417	5,489	8,599	8,504	3	3	20,830	21,056
Oklahoma	5,401	5,938	4,185	4,472	5,029	4,581	0	0	14,615	14,991
Texas	31,799	33,726	31,698	30,531	28,693	27,647	43	44	92,233	91,947
Mountain	22,526	23,122	22,480	22,632	19,971	19,230	44	49	65,022	65,032
Arizona	6,548	6,700	6,226	6,323	3,215	3,237	3	2	15,991	16,262
Colorado	4,709	4,751	4,912	4,976	3,962	3,740	27	32	13,610	13,499
Idaho	2,479	2,564	1,593	1,602	1,588	1,529	0	0	5,661	5,694
Montana	1,548	1,704	1,264	1,310	1,094	1,161	0	0	3,906	4,175
Nevada	2,444	2,529	2,767	2,581	2,986	2,838	2	2	8,199	7,949
New Mexico	1,661	1,689	2,101	2,087	2,275	1,996	0	0	6,037	5,773
Utah	2,280	2,289	2,682	2,800	2,327	2,134	13	13	7,302	7,236
Wyoming	858	896	934	952	2,524	2,595	0	0	4,317	4,443
Pacific Contiguous	36,659	39,002	36,934	38,037	19,239	19,096	219	206	93,051	96,341
California	19,760	21,207	25,410	26,194	10,622	10,283	184	179	55,976	57,863
Oregon	5,639	5,988	4,138	4,136	2,882	2,809	7	7	12,666	12,941
Washington	11,260	11,807	7,386	7,707	5,735	6,003	28	20	24,409	25,537
Pacific Noncontiguous	1,262	1,181	1,393	1,373	1,171	1,097	0	0	3,826	3,650
Alaska	622	579	720	709	330	300	0	0	1,672	1,588
Hawaii	640	602	673	663	841	797	0	0	2,154	2,062
U.S. Total	339,667	361,400	312,686	319,869	230,519	228,156	1,939	2,064	884,810	911,489

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.

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	783	845	633	702	154	176	5	5	1,574	1,728
Connecticut	218	235	156	170	30	34	2	3	406	442
Maine	70	79	43	50	22	29	0	0	134	158
Massachusetts	340	368	310	347	63	70	3	2	716	787
New Hampshire	71	78	52	57	20	21	0	0	142	156
Rhode Island	50	54	48	52	7	10	0	0	105	117
Vermont	35	31	25	25	12	12	0	0	71	68
Middle Atlantic	1,501	1,681	1,360	1,459	369	393	32	35	3,262	3,569
New Jersey	299	335	349	373	53	58	2	2	702	767
New York	652	682	763	770	69	73	27	29	1,511	1,554
Pennsylvania	550	664	248	317	247	262	3	5	1,048	1,247
East North Central	1,870	2,066	1,384	1,531	950	1,078	4	6	4,207	4,682
Illinois	426	468	344	364	215	229	3	5	989	1,067
Indiana	302	343	196	209	220	263	0	0	718	815
Michigan	429	428	323	360	156	177	0	0	909	966
Ohio	450	556	320	384	218	259	0	0	988	1,200
Wisconsin	263	271	200	214	141	149	0	0	604	635
West North Central	926	1,015	728	780	518	522	0	0	2,173	2,317
Iowa	140	156	94	99	118	113	0	0	352	368
Kansas	113	126	117	124	58	65	0	0	288	315
Minnesota	236	258	181	201	128	140	0	0	545	600
Missouri	255	274	180	195	54	56	0	0	489	525
Nebraska	87	98	66	68	70	68	0	0	223	233
North Dakota	46	50	53	52	73	63	0	0	172	165
South Dakota	49	53	37	40	18	17	0	0	103	110
South Atlantic	3,097	3,229	2,216	2,295	658	713	9	9	5,980	6,247
Delaware	49	53	32	35	10	12	0	0	91	100
District of Columbia	22	29	64	76	2	1	2	3	91	109
Florida	1,042	1,015	691	696	97	100	1	1	1,831	1,811
Georgia	462	463	334	347	124	144	1	1	921	954
Maryland	267	317	205	239	21	24	4	3	496	585
North Carolina	478	514	326	325	128	136	0	0	932	975
South Carolina	273	272	165	169	118	123	0	0	555	564
Virginia	402	449	349	349	85	99	1	1	837	898
West Virginia	101	118	51	58	73	75	0	0	226	251
East South Central	992	1,034	718	742	419	449	0	0	2,129	2,224
Alabama	281	289	186	192	142	159	0	0	609	640
Kentucky	211	232	146	151	114	120	0	0	471	503
Mississippi	152	152	105	107	81	80	0	0	338	339
Tennessee	347	361	282	292	83	89	0	0	711	742
West South Central	1,684	1,753	1,179	1,167	813	807	1	1	3,677	3,728
Arkansas	141	148	72	78	74	81	0	0	286	307
Louisiana	192	197	157	163	128	144	0	0	477	504
Oklahoma	156	177	97	107	70	78	0	0	323	362
Texas	1,196	1,231	853	819	542	504	1	1	2,591	2,555
Mountain	794	827	673	702	383	411	1	1	1,851	1,941
Arizona	239	248	196	210	55	66	0	0	490	523
Colorado	178	187	159	169	95	93	1	1	433	450
Idaho	71	76	38	39	27	29	0	0	136	144
Montana	54	62	42	43	18	28	0	0	115	134
Nevada	92	91	70	70	48	50	0	0	210	211
New Mexico	59	62	68	69	41	39	0	0	167	170
Utah	71	70	72	73	44	46	0	0	187	190
Wyoming	28	30	28	30	56	59	0	0	112	119
Pacific Contiguous	1,843	1,863	1,709	1,680	604	553	7	6	4,164	4,101
California	1,295	1,298	1,376	1,329	455	386	5	5	3,132	3,017
Oregon	200	203	120	122	57	63	0	0	378	388
Washington	348	362	213	229	92	105	1	1	654	697
Pacific Noncontiguous	112	107	114	115	93	90	0	0	319	312
Alaska	43	40	45	46	18	17	0	0	107	103
Hawaii	69	67	69	69	75	72	0	0	212	208
U.S. Total	13,602	14,420	10,715	11,174	4,961	5,191	59	64	29,337	30,849

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2020 YTD	March 2019 YTD								
New England	2,545	2,671	1,972	2,146	472	513	16	17	5,006	5,347
Connecticut	711	745	485	518	94	103	7	8	1,296	1,375
Maine	219	245	129	151	59	73	0	0	407	468
Massachusetts	1,107	1,154	1,000	1,061	198	208	8	8	2,313	2,431
New Hampshire	236	251	153	176	59	63	0	0	448	490
Rhode Island	163	175	129	161	24	28	1	1	318	367
Vermont	109	100	76	78	38	37	0	0	223	215
Middle Atlantic	4,973	5,355	4,199	4,466	1,139	1,188	99	117	10,410	11,125
New Jersey	960	1,062	1,051	1,107	154	170	6	7	2,171	2,346
New York	2,100	2,197	2,353	2,401	212	233	84	95	4,749	4,927
Pennsylvania	1,913	2,096	795	957	774	785	9	15	3,491	3,853
East North Central	6,081	6,466	4,290	4,519	2,861	3,153	14	14	13,246	14,153
Illinois	1,384	1,454	1,050	1,097	650	695	13	12	3,097	3,259
Indiana	996	1,094	600	621	669	748	1	1	2,266	2,464
Michigan	1,328	1,329	1,027	1,048	483	519	0	0	2,838	2,896
Ohio	1,539	1,732	999	1,121	639	751	1	1	3,178	3,606
Wisconsin	833	856	614	632	420	440	0	0	1,867	1,928
West North Central	3,030	3,206	2,241	2,298	1,508	1,506	1	1	6,780	7,012
Iowa	462	489	295	298	352	346	0	0	1,109	1,132
Kansas	371	391	351	353	179	194	0	0	901	938
Minnesota	753	801	550	571	373	389	1	1	1,677	1,761
Missouri	861	905	570	595	160	162	0	0	1,592	1,663
Nebraska	278	295	201	205	184	178	0	0	664	678
North Dakota	148	161	158	159	207	188	0	0	513	508
South Dakota	157	164	116	118	52	50	0	0	325	331
South Atlantic	9,870	10,328	6,611	6,804	1,970	2,052	27	27	18,478	19,211
Delaware	152	168	96	103	32	35	0	0	279	307
District of Columbia	73	87	209	233	5	4	8	8	295	332
Florida	3,040	3,096	1,991	2,023	290	291	2	2	5,322	5,412
Georgia	1,499	1,494	1,020	1,019	378	409	2	2	2,898	2,924
Maryland	915	1,038	659	731	63	71	11	11	1,648	1,850
North Carolina	1,620	1,707	975	982	372	381	0	0	2,968	3,070
South Carolina	904	903	499	493	349	371	0	0	1,752	1,767
Virginia	1,326	1,479	1,000	1,048	264	276	5	4	2,595	2,807
West Virginia	341	356	163	171	217	214	0	0	721	741
East South Central	3,266	3,393	2,222	2,251	1,271	1,335	0	0	6,759	6,979
Alabama	927	944	572	576	439	454	0	0	1,938	1,974
Kentucky	712	746	455	452	342	365	0	0	1,510	1,562
Mississippi	489	501	317	323	239	242	0	0	1,045	1,066
Tennessee	1,139	1,202	877	900	251	274	0	0	2,266	2,377
West South Central	5,374	5,621	3,463	3,506	2,348	2,356	3	3	11,187	11,486
Arkansas	461	464	216	234	216	240	0	0	894	938
Louisiana	613	641	471	486	395	430	0	0	1,479	1,557
Oklahoma	506	552	300	331	213	228	0	0	1,019	1,111
Texas	3,793	3,965	2,475	2,455	1,524	1,457	3	3	7,795	7,880
Mountain	2,573	2,662	2,021	2,083	1,145	1,180	4	5	5,742	5,930
Arizona	778	821	589	627	172	197	0	0	1,539	1,644
Colorado	560	570	471	488	276	270	2	3	1,309	1,331
Idaho	240	248	117	121	83	85	0	0	440	455
Montana	174	184	131	132	54	75	0	0	358	390
Nevada	294	302	211	203	143	142	0	0	649	647
New Mexico	205	210	201	203	121	111	0	0	527	524
Utah	231	231	214	220	129	128	1	1	575	580
Wyoming	91	96	87	89	168	173	0	0	346	358
Pacific Contiguous	5,751	5,797	4,991	4,938	1,726	1,651	20	18	12,488	12,405
California	4,072	4,048	3,968	3,893	1,282	1,168	16	16	9,338	9,125
Oregon	611	640	368	369	171	181	1	1	1,150	1,191
Washington	1,068	1,109	656	676	273	302	3	2	2,000	2,089
Pacific Noncontiguous	348	327	346	343	278	263	0	0	972	933
Alaska	139	128	141	140	56	51	0	0	336	318
Hawaii	209	199	205	203	221	213	0	0	636	615
U.S. Total	43,810	45,826	32,356	33,353	14,718	15,198	184	203	91,068	94,580

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

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

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

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

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Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.

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

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	21.67	21.63	16.04	16.86	12.53	13.20	11.70	8.67	17.83	18.26
Connecticut	23.30	22.51	17.19	17.40	13.64	13.85	14.77	10.25	19.56	19.26
Maine	16.53	18.06	12.74	13.59	8.92	9.85	--	--	13.42	14.39
Massachusetts	22.80	22.67	16.23	17.22	13.88	14.97	9.85	6.48	18.42	19.03
New Hampshire	18.97	20.16	15.43	16.22	12.94	13.60	--	--	16.53	17.49
Rhode Island	23.25	23.14	15.58	18.01	15.48	16.21	16.90	19.92	18.44	19.86
Vermont	19.60	17.05	16.42	15.79	10.85	10.85	--	--	16.29	15.04
Middle Atlantic	15.55	15.25	11.84	11.55	6.27	6.67	11.12	10.70	11.94	11.94
New Jersey	16.14	15.95	12.08	12.01	10.14	10.19	8.39	8.42	13.29	13.24
New York	17.17	16.84	13.33	12.93	5.24	5.53	11.89	11.67	13.66	13.42
Pennsylvania	13.75	13.62	8.62	8.85	6.11	6.55	7.82	7.77	9.56	9.97
East North Central	13.37	13.14	10.08	10.21	6.46	7.04	7.84	6.99	9.90	10.15
Illinois	13.17	12.81	8.99	8.90	6.63	6.74	7.82	6.85	9.55	9.50
Indiana	12.19	12.29	10.83	10.88	6.60	7.48	10.77	10.94	9.43	9.91
Michigan	16.05	15.22	11.51	11.35	7.08	7.41	11.22	10.12	11.82	11.53
Ohio	11.78	12.15	9.34	10.01	5.45	6.45	6.21	7.24	8.78	9.65
Wisconsin	14.73	14.35	10.79	10.80	7.28	7.54	13.23	13.86	10.83	10.84
West North Central	11.39	10.99	9.22	9.18	7.12	7.32	7.62	8.00	9.32	9.32
Iowa	12.40	11.52	9.86	9.19	6.19	6.12	--	--	8.82	8.60
Kansas	12.68	12.84	10.24	10.28	7.22	7.47	--	--	10.15	10.30
Minnesota	12.85	12.91	10.00	10.27	7.46	8.01	9.03	9.81	10.17	10.50
Missouri	9.99	9.51	8.05	8.01	5.89	6.13	6.44	6.22	8.56	8.43
Nebraska	10.55	9.80	8.81	8.72	8.22	8.66	--	--	9.20	9.12
North Dakota	10.00	9.53	8.81	8.75	8.48	8.43	--	--	8.95	8.84
South Dakota	11.18	10.64	9.24	9.09	7.63	7.86	--	--	9.68	9.54
South Atlantic	11.97	11.88	9.29	9.42	5.90	6.30	7.52	8.08	9.80	9.92
Delaware	12.95	12.50	9.78	10.26	6.96	7.74	--	--	10.72	10.88
District of Columbia	13.03	13.66	12.19	11.80	8.18	8.42	9.59	10.55	12.14	12.15
Florida	11.64	11.84	9.34	9.57	7.17	7.61	8.11	8.53	10.33	10.56
Georgia	11.40	11.33	9.70	9.79	5.05	5.54	4.46	5.05	9.24	9.32
Maryland	13.59	13.44	9.90	10.38	7.62	7.92	7.07	7.51	11.38	11.64
North Carolina	11.68	11.41	8.96	8.71	5.84	6.23	7.87	8.49	9.39	9.36
South Carolina	12.79	12.75	10.22	10.35	5.49	5.75	--	--	9.43	9.55
Virginia	12.27	11.70	8.10	8.23	6.59	7.20	8.14	8.04	9.42	9.49
West Virginia	11.98	10.97	9.60	9.16	5.76	5.94	--	--	8.52	8.46
East South Central	11.41	11.25	10.77	10.70	5.39	5.67	--	--	9.20	9.25
Alabama	12.77	12.68	11.43	11.63	5.36	5.84	--	--	9.41	9.62
Kentucky	10.76	10.29	10.33	9.67	5.07	5.28	--	--	8.37	8.25
Mississippi	11.54	11.51	10.53	10.78	5.87	5.88	--	--	9.16	9.23
Tennessee	10.81	10.82	10.70	10.71	5.45	5.75	--	--	9.67	9.75
West South Central	11.24	11.01	7.90	8.22	5.12	5.38	6.80	6.74	8.03	8.26
Arkansas	10.13	9.59	8.46	8.77	5.38	5.88	9.48	10.37	7.93	8.06
Louisiana	9.08	9.29	8.59	9.02	4.66	5.36	8.47	9.14	7.13	7.62
Oklahoma	9.84	9.66	7.08	7.70	4.07	5.08	--	--	6.91	7.61
Texas	12.09	11.81	7.84	8.11	5.39	5.36	6.68	6.57	8.41	8.53
Mountain	11.56	11.61	9.09	9.25	5.75	6.24	9.39	9.31	8.84	9.11
Arizona	12.16	12.34	9.59	9.88	5.31	6.06	8.31	8.58	9.71	10.03
Colorado	12.04	12.10	9.76	9.92	7.12	7.29	8.61	8.89	9.72	9.92
Idaho	9.64	9.66	7.47	7.71	5.16	5.47	--	--	7.70	7.90
Montana	11.32	10.78	10.36	10.10	4.89	7.47	--	--	9.10	9.66
Nevada	12.12	12.27	7.68	7.78	4.61	4.92	7.83	7.41	7.76	7.95
New Mexico	12.47	12.58	9.44	9.73	5.34	5.78	--	--	8.57	9.07
Utah	10.16	10.17	8.11	7.94	5.57	6.34	11.43	10.57	7.88	8.11
Wyoming	10.71	10.83	9.36	9.54	6.82	6.66	--	--	8.12	8.06
Pacific Contiguous	15.66	14.96	13.62	12.86	9.23	8.71	8.99	8.38	13.46	12.84
California	20.49	19.32	15.57	14.55	12.37	11.21	8.83	8.21	16.57	15.59
Oregon	10.95	10.66	8.99	9.02	5.87	6.91	9.40	9.05	9.12	9.30
Washington	9.60	9.46	8.96	8.88	4.86	5.24	9.86	9.44	8.27	8.28
Pacific Noncontiguous	27.92	28.51	24.93	25.47	23.40	23.92	--	--	25.40	25.93
Alaska	22.32	22.53	19.54	20.19	16.35	16.33	--	--	19.88	20.21
Hawaii	33.10	33.93	30.44	30.80	26.15	26.91	--	--	29.51	30.18
U.S. Total	13.08	12.86	10.41	10.45	6.40	6.72	9.77	9.28	10.29	10.39

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

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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 March 2020 and 2019 (Cents per Kilowatthour)**

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2020 YTD	March 2019 YTD								
New England	21.75	21.53	16.23	16.83	12.74	13.44	11.58	11.30	18.07	18.36
Connecticut	22.91	22.21	17.02	17.50	13.65	14.22	15.40	16.13	19.40	19.39
Maine	16.73	17.63	12.68	13.44	9.07	9.99	--	--	13.67	14.46
Massachusetts	22.92	22.80	16.48	17.03	14.02	14.92	9.28	8.15	18.66	19.02
New Hampshire	19.67	20.10	15.67	16.51	13.06	13.87	--	--	17.04	17.69
Rhode Island	23.42	23.30	16.78	18.43	15.62	17.04	17.05	19.35	19.51	20.34
Vermont	19.41	16.81	16.19	15.80	10.92	10.84	--	--	16.19	15.03
Middle Atlantic	15.47	15.19	11.68	11.57	6.35	6.72	10.83	11.09	11.97	12.02
New Jersey	15.74	15.96	11.87	11.98	9.89	10.17	8.37	8.60	13.09	13.29
New York	17.39	17.25	13.22	13.02	5.32	5.63	11.72	12.18	13.74	13.65
Pennsylvania	13.69	13.21	8.56	8.77	6.23	6.62	7.07	7.68	9.75	9.92
East North Central	13.10	12.92	9.95	10.14	6.51	7.03	7.01	7.00	9.91	10.14
Illinois	12.80	12.47	8.81	8.90	6.45	6.74	6.93	6.83	9.39	9.45
Indiana	11.97	12.04	10.80	10.74	6.67	7.41	10.38	10.84	9.47	9.87
Michigan	15.90	15.10	11.41	11.27	7.13	7.36	10.78	10.19	11.77	11.51
Ohio	11.65	12.00	9.13	9.93	5.61	6.48	6.13	7.00	8.94	9.66
Wisconsin	14.57	14.16	10.76	10.81	7.38	7.62	13.88	13.20	10.91	10.91
West North Central	10.98	10.71	9.07	8.98	6.94	7.13	7.82	8.03	9.16	9.15
Iowa	11.98	11.53	9.66	9.35	6.05	6.21	--	--	8.72	8.71
Kansas	12.20	11.83	10.00	9.58	7.07	7.40	--	--	9.92	9.76
Minnesota	12.69	12.74	9.90	10.04	7.43	7.71	9.36	9.63	10.15	10.35
Missouri	9.60	9.29	7.97	7.93	5.95	6.08	6.34	6.30	8.46	8.35
Nebraska	10.02	9.64	8.64	8.55	7.42	7.63	--	--	8.74	8.71
North Dakota	9.39	9.23	8.50	8.61	8.26	8.40	--	--	8.63	8.71
South Dakota	10.97	10.56	9.22	9.02	7.64	7.67	--	--	9.65	9.45
South Atlantic	11.80	11.70	9.26	9.44	5.97	6.22	7.55	7.95	9.81	9.92
Delaware	12.56	12.27	9.54	10.06	6.95	7.79	--	--	10.46	10.76
District of Columbia	12.70	13.22	11.97	12.31	8.15	8.48	9.35	10.40	11.95	12.42
Florida	11.71	11.89	9.38	9.64	7.30	7.71	8.06	8.39	10.40	10.65
Georgia	11.11	10.92	9.63	9.58	5.10	5.39	4.41	4.67	9.19	9.15
Maryland	13.44	13.29	10.02	10.50	7.76	8.00	7.12	7.46	11.48	11.71
North Carolina	11.36	11.32	8.68	8.77	5.87	6.12	7.77	8.30	9.32	9.45
South Carolina	12.42	12.40	10.12	10.23	5.59	5.76	--	--	9.50	9.53
Virginia	12.01	11.51	8.12	8.29	6.54	6.90	8.12	8.05	9.45	9.50
West Virginia	11.21	10.19	9.25	8.93	5.91	5.94	--	--	8.51	8.22
East South Central	11.25	11.11	10.75	10.70	5.45	5.69	--	--	9.26	9.30
Alabama	12.50	12.36	11.51	11.44	5.48	5.64	--	--	9.50	9.53
Kentucky	10.60	10.27	10.16	9.80	5.11	5.39	--	--	8.44	8.38
Mississippi	11.33	11.18	10.68	10.71	5.86	6.03	--	--	9.20	9.26
Tennessee	10.75	10.76	10.64	10.76	5.52	5.94	--	--	9.69	9.84
West South Central	11.05	10.88	7.89	8.12	5.05	5.25	6.76	6.70	8.05	8.22
Arkansas	9.95	9.40	8.30	8.64	5.23	5.84	11.12	11.13	7.86	7.98
Louisiana	9.00	9.08	8.70	8.85	4.59	5.05	8.97	9.02	7.10	7.39
Oklahoma	9.38	9.29	7.16	7.41	4.24	4.98	--	--	6.97	7.41
Texas	11.93	11.76	7.81	8.04	5.31	5.27	6.61	6.53	8.45	8.57
Mountain	11.42	11.51	8.99	9.20	5.73	6.14	9.16	9.51	8.83	9.12
Arizona	11.89	12.25	9.45	9.91	5.35	6.07	8.30	8.84	9.63	10.11
Colorado	11.88	12.00	9.59	9.81	6.96	7.21	8.53	9.25	9.61	9.86
Idaho	9.67	9.68	7.36	7.59	5.22	5.57	--	--	7.77	7.99
Montana	11.25	10.78	10.33	10.05	4.90	6.47	--	--	9.17	9.35
Nevada	12.04	11.95	7.64	7.86	4.80	5.00	7.84	7.38	7.92	8.14
New Mexico	12.32	12.44	9.59	9.71	5.30	5.55	--	--	8.72	9.07
Utah	10.14	10.10	7.97	7.84	5.52	5.98	10.88	10.57	7.87	8.01
Wyoming	10.59	10.66	9.27	9.39	6.66	6.68	--	--	8.00	8.07
Pacific Contiguous	15.69	14.86	13.51	12.98	8.97	8.65	8.90	8.89	13.42	12.88
California	20.61	19.09	15.61	14.86	12.07	11.36	8.75	8.83	16.68	15.77
Oregon	10.83	10.69	8.89	8.92	5.93	6.45	9.29	9.03	9.08	9.20
Washington	9.48	9.39	8.88	8.78	4.76	5.03	9.77	9.38	8.19	8.18
Pacific Noncontiguous	27.55	27.66	24.87	24.97	23.71	24.00	--	--	25.40	25.55
Alaska	22.30	22.02	19.60	19.69	17.03	16.90	--	--	20.10	20.01
Hawaii	32.66	33.11	30.50	30.62	26.33	26.67	--	--	29.51	29.82
U.S. Total	12.90	12.68	10.35	10.43	6.38	6.66	9.50	9.81	10.29	10.38

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 - March 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
Rolling 12 Months Ending in March					
2019	134,191,011	18,610,776	855,951	83	153,657,820
2020	135,664,055	18,666,692	926,666	82	155,257,495

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:  
March 2020 and 2019**

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	6,455,440	6,447,985	908,099	905,952	19,383	20,096	6	6	7,382,928	7,374,039
Connecticut	1,519,022	1,509,380	154,824	154,350	4,104	4,187	3	3	1,677,953	1,667,920
Maine	727,351	721,302	101,896	98,914	2,770	3,063	0	0	832,017	823,279
Massachusetts	2,823,960	2,828,006	423,310	426,009	7,544	7,786	2	2	3,254,816	3,261,803
New Hampshire	630,809	625,736	108,943	108,172	3,129	3,144	0	0	742,881	737,052
Rhode Island	438,156	447,896	59,717	61,257	1,695	1,775	1	1	499,569	510,929
Vermont	316,142	315,665	59,409	57,250	141	141	0	0	375,692	373,056
Middle Atlantic	16,332,151	16,243,509	2,384,529	2,360,270	32,839	28,951	19	20	18,749,538	18,632,750
New Jersey	3,614,964	3,590,645	529,608	524,185	11,677	11,669	6	6	4,156,255	4,126,505
New York	7,267,849	7,232,926	1,133,884	1,116,138	6,498	6,589	8	8	8,408,239	8,355,661
Pennsylvania	5,449,338	5,419,938	721,037	719,947	14,664	10,693	5	6	6,185,044	6,150,584
East North Central	20,501,464	20,363,438	2,534,928	2,511,085	47,209	46,481	10	10	23,083,611	22,921,014
Illinois	5,361,380	5,333,542	625,849	618,882	3,955	3,988	3	3	5,991,187	5,956,415
Indiana	2,910,358	2,882,326	361,051	353,000	15,924	15,079	1	1	3,287,334	3,250,406
Michigan	4,441,765	4,407,427	553,137	551,303	NM	NM	2	2	5,000,391	4,964,232
Ohio	5,035,698	5,008,822	633,452	629,910	16,961	16,980	2	2	5,686,113	5,655,714
Wisconsin	2,752,263	2,731,321	361,439	357,990	NM	NM	2	2	3,118,586	3,094,247
West North Central	9,700,904	9,611,245	1,484,340	1,470,239	112,208	110,559	3	3	11,297,455	11,192,046
Iowa	1,418,524	1,406,658	248,740	246,236	NM	NM	0	0	1,674,027	1,659,633
Kansas	1,295,341	1,282,624	238,468	235,457	24,889	24,801	0	0	1,558,698	1,542,882
Minnesota	2,454,988	2,431,000	295,565	293,408	NM	NM	1	1	2,758,797	2,732,520
Missouri	2,858,232	2,835,840	387,947	384,443	6,495	6,648	2	2	3,252,676	3,226,933
Nebraska	875,926	866,122	162,472	161,721	53,805	52,475	0	0	1,092,203	1,080,318
North Dakota	387,878	382,615	75,480	74,443	8,945	8,769	0	0	472,303	465,827
South Dakota	410,015	406,386	75,668	74,531	NM	NM	0	0	488,751	483,933
South Atlantic	28,673,006	28,249,381	3,866,555	3,817,455	78,050	78,003	13	13	32,617,624	32,144,852
Delaware	440,154	433,805	55,669	55,136	565	568	0	0	496,388	489,509
District of Columbia	287,492	280,375	26,571	26,449	1	1	3	3	314,067	306,828
Florida	9,623,709	9,480,908	1,258,987	1,244,871	20,270	20,236	2	2	10,902,968	10,746,017
Georgia	4,510,674	4,434,703	594,918	586,493	19,347	19,220	1	1	5,124,940	5,040,417
Maryland	2,370,700	2,349,639	256,720	255,015	8,822	8,772	5	5	2,636,247	2,613,431
North Carolina	4,700,823	4,619,857	714,819	702,256	9,692	9,735	1	1	5,425,335	5,331,849
South Carolina	2,371,630	2,325,158	376,877	370,115	4,171	4,156	0	0	2,752,678	2,699,429
Virginia	3,508,309	3,464,655	435,986	431,986	3,809	3,788	1	1	3,948,105	3,900,430
West Virginia	859,515	860,281	146,008	145,134	11,373	11,527	0	0	1,016,896	1,016,942
East South Central	8,634,047	8,530,377	1,425,567	1,407,481	21,960	22,023	0	0	10,081,574	9,959,881
Alabama	2,300,240	2,273,096	374,674	370,387	8,155	8,155	0	0	2,683,069	2,651,638
Kentucky	2,030,523	2,014,074	309,979	306,005	5,355	5,484	0	0	2,345,857	2,325,563
Mississippi	1,350,175	1,324,681	241,061	239,469	7,594	7,548	0	0	1,598,830	1,571,698
Tennessee	2,953,109	2,918,526	499,853	491,620	856	836	0	0	3,453,818	3,410,982
West South Central	16,587,006	16,390,806	2,261,965	2,238,714	329,218	290,416	6	6	19,178,195	18,919,942
Arkansas	1,420,658	1,404,418	194,964	193,698	31,405	29,812	2	2	1,647,029	1,627,930
Louisiana	2,140,268	2,105,650	298,810	292,704	18,456	18,341	1	1	2,457,535	2,416,696
Oklahoma	1,819,316	1,799,855	290,759	278,064	19,305	18,562	0	0	2,129,380	2,096,481
Texas	11,206,764	11,080,883	1,477,432	1,474,248	260,052	223,701	3	3	12,944,251	12,778,835
Mountain	10,103,601	9,941,862	1,422,514	1,406,443	88,849	86,251	5	5	11,614,969	11,434,561
Arizona	2,883,692	2,839,558	328,856	324,484	NM	6,376	2	2	3,218,520	3,170,420
Colorado	2,392,432	2,356,409	371,460	366,299	NM	14,099	1	1	2,778,716	2,736,808
Idaho	774,068	755,142	113,758	111,659	28,676	28,455	0	0	916,502	895,256
Montana	523,908	517,278	113,452	111,614	NM	NM	0	0	643,656	635,097
Nevada	1,218,594	1,196,113	168,149	166,693	NM	NM	1	1	1,390,134	1,366,075
New Mexico	918,323	909,580	141,242	140,538	NM	8,509	0	0	1,068,280	1,058,627
Utah	1,114,260	1,091,644	127,238	126,265	10,616	9,535	1	1	1,252,115	1,227,445
Wyoming	278,324	276,138	58,359	58,891	10,363	9,804	0	0	347,046	344,833
Pacific Contiguous	18,956,095	18,712,060	2,386,864	2,343,081	204,572	199,501	20	19	21,547,551	21,254,661
California	14,036,734	13,835,306	1,740,883	1,701,872	149,955	144,932	13	12	15,927,585	15,682,122
Oregon	1,796,845	1,772,100	243,296	241,360	26,295	26,176	2	2	2,066,438	2,039,638
Washington	3,122,516	3,104,654	402,6							

## Chapter 6

### Capacity

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

				As of End of February 2020	Activity During March 2020 as Reported to EIA		As of End of March 2020	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
									Planned Capacity Additions		Reductions		Planned Net Change		Capacity			
Technology		Capacity Source	Total In-Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	At End of Next Month	At End of Next 12 Months	
..... Onshore Wind (Summer Capacity)	Utility Scale Facilities		104,379.0	1,562.4	51.9	105,889.5	1,510.5	2,334.3	9,282.5	1,950.3	22,250.0	0.0	0.0	1,950.3	22,250.0	107,839.8	128,139.5	
..... 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		104,408.3	1,562.4	51.9	105,918.8	1,510.5	2,334.3	9,282.5	1,950.3	22,262.0	0.0	0.0	1,950.3	22,262.0	107,869.1	128,180.8	
.... Solar Photovoltaic	Utility Scale Facilities		37,110.1	334.9	6.5	37,438.5	328.4	1,867.3	6,083.2	885.2	12,596.7	0.0	0.0	885.2	12,596.7	38,323.7	50,035.2	
.... Solar Thermal without Energy Storage	Utility Scale Facilities		1,352.5	0.0	0.0	1,352.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,352.5	1,352.5	
.... Solar Thermal with Energy Storage	Utility Scale Facilities		405.6	0.0	0.0	405.6	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	405.6	405.6	
.... Solar Subtotal	Utility Scale Facilities		38,868.2	334.9	6.5	39,196.6	328.4	1,867.5	6,083.4	885.2	12,596.7	0.0	0.0	885.2	12,596.7	40,081.8	51,793.3	
.... Conventional Hydroelectric	Utility Scale Facilities		79,735.0	62.4	9.8	79,787.6	52.6	41.3	-107.4	0.0	305.1	0.0	3.4	0.0	301.7	79,787.6	80,089.3	
.... Wood/Wood Waste Biomass	Utility Scale Facilities		8,402.9	0.0	0.0	8,402.9	0.0	-86.0	-87.5	0.0	12.0	0.0	20.0	0.0	-8.0	8,402.9	8,394.9	
.... Landfill Gas	Utility Scale Facilities		1,986.8	1.6	2.7	1,985.7	-1.1	-50.2	-71.2	0.0	3.4	0.0	75.9	0.0	-72.5	1,985.7	1,913.2	
.... Municipal Solid Waste	Utility Scale Facilities		2,125.7	0.0	0.0	2,125.7	0.0	-63.6	-73.6	0.0	0.0	0.0	0.0	0.0	0.0	2,125.7	2,125.7	
.... Other Waste Biomass	Utility Scale Facilities		733.0	0.0	0.0	733.0	0.0	-1.0	-7.4	0.0	52.8	0.0	2.0	0.0	50.8	733.0	783.8	
.... Biomass Sources Subtotal	Utility Scale Facilities		13,248.4	1.6	2.7	13,247.3	-1.1	-200.8	-239.7	0.0	68.2	0.0	97.9	0.0	-29.7	13,247.3	13,217.6	
.... Geothermal	Utility Scale Facilities		2,557.7	0.0	0.0	2,557.7	0.0	98.6	106.5	0.0	89.9	0.0	0.0	0.0	89.9	2,557.7	2,647.6	
... Renewable Sources Subtotal	Utility Scale Facilities		238,817.6	1,961.3	70.9	240,708.0	1,890.4	4,140.9	15,125.3	2,835.5	35,321.9	0.0	101.3	2,835.5	35,220.6	243,543.5	275,928.6	
..... Natural Gas Fired Combined Cycle	Utility Scale Facilities		270,982.3	1,868.9	214.9	272,636.3	1,654.0	2,099.7	6,723.4	2,218.1	4,566.1	0.0	29.0	2,218.1	4,537.1	274,854.4	277,173.4	
..... Natural Gas Fired Combustion Turbine	Utility Scale Facilities		129,035.7	30.5	224.1	128,842.1	-193.6	-34.7	964.7	365.0	1,115.4	0.0	454.5	365.0	660.9	129,207.1	129,503.0	
..... Natural Gas Steam Turbine	Utility Scale Facilities		70,137.2	452.6	42.1	70,547.7	410.5	-1,404.6	-3,462.4	0.0	18.2	0.0	1,799.3	0.0	-1,781.1	70,547.7	68,766.6	
..... Natural Gas Internal Combustion Engine	Utility Scale Facilities		5,029.2	95.2	0.6	5,123.8	94.6	192.5	237.2	0.0	129.4	2.7	31.1	-2.7	98.3	5,121.1	5,222.1	
..... Natural Gas with Compressed Air Storage	Utility Scale Facilities		110.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.0	110.0	
..... Other Natural Gas	Utility Scale Facilities		190.0	14.7	0.0	204.7	14.7	26.9	29.7	0.0	14.8	0.0	0.0	0.0	14.8	204.7	219.5	
.... Natural Gas Subtotal	Utility Scale Facilities		475,484.4	2,461.9	481.7	477,464.6	1,980.2	879.8	4,492.6	2,583.1	5,843.9	2.7	2,313.9	2,580.4	3,530.0	480,045.0	480,994.6	
.... Conventional Steam Coal	Utility Scale Facilities		226,439.5	7.0	1,403.4	225,043.1	-1,396.4	-3,442.3	-12,527.8	20.0	41.0	0.0	6,357.4	20.0	-6,316.4	225,063.1	218,726.7	
.... 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		227,195.5	7.0	1,403.4	225,799.1	-1,396.4	-3,442.3	-12,527.8	20.0	41.0	0.0	6,357.4	20.0	-6,316.4	225,819.1	219,482.7	
.... Petroleum Coke	Utility Scale Facilities		1,452.4	0.0	0.0	1,452.4	0.0	-12.8	-79.8	0.0	0.0	0.0	0.0	0.0	0.0	1,452.4	1,452.4	
.... Petroleum Liquids	Utility Scale Facilities		30,535.1	49.0	282.4	30,301.7	-233.4	-330.6	-501.7	5.0	9.7	0.0	27.1	5.0	-17.4	30,306.7	30,284.3	
.... Other Gases	Utility Scale Facilities		2,548.9	0.0	6.4	2,542.5	-6.4	-6.4	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	2,542.5	2,542.5	
... Fossil Fuels Subtotal	Utility Scale Facilities		737,216.3	2,517.9	2,173.9	737,560.3	344.0	-2,912.3	-8,618.1	2,608.1	5,894.6	2.7	8,698.4	2,605.4	-2,803.8	740,165.7	734,756.5	
..... Hydroelectric Pumped Storage	Utility Scale Facilities		22,880.9	1.2	0.0	22,882.1	1.2	3.9	82.9	0.0	173.3	0.0	0.0	0.0	173.3	22,882.1	23,055.4	
..... Flywheels	Utility Scale Facilities		47.0	0.0	0.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0	47.0	
..... Batteries	Utility Scale Facilities		1,015.2	20.8	0.0	1,036.0	20.8	20.8	108.5	15.4	569.0	0.0	0.0	15.4	569.0	1,051.4	1,605.0	
... Energy Storage Subtotal	Utility Scale Facilities		23,943.1	22.0	0.0	23,965.1	22.0	24.7	191.4	15.4	742.3	0.0	0.0	15.4	742.3	23,980.5	24,707.4	
... Nuclear	Utility Scale Facilities		98,119.0	0.0	0.0	98,119.0	0.0	48.8	-1,272.6	0.0	20.0	1,016.1	1,617.5	-1,016.1	-1,597.5	97,102.9	96,521.5	
... All Other	Utility Scale Facilities		1,736.6	0.0	5.0	1,731.6	-5.0	236.1	284.0	0.0	0.0	0.0	0.0	0.0	0.0	1,731.6	1,731.6	
<b>TOTAL</b>	<b>UTILITY SCALE FACILITIES</b>		<b>1,099,832.6</b>	<b>4,501.2</b>	<b>2,249.8</b>	<b>1,102,084.0&lt;/</b>												

## NOTES:

Planned Capacity Additions reflect plans to begin operating new units and plans to upgrade existing units.

Planned Capacity Additions reflect plans to begin operating new units and Planned Capacity Reductions reflect plans to retire or derate existing units.

**Actual Capacity Additions** reflect new units, upgrades to existing units, corrections to previously reported capacities, and additions not previously reported.

Actual Capacity Additions reflect new units, upgrades 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 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.'

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 6.1.A. Estimated Net Summer Solar Photovoltaic Capacity From Utility and Small Scale Facilities (Megawatts)**  
**2008 - March 2020**

Period	Utility Solar Photovoltaic	Estimated Small Scale Solar Photovoltaic	Estimated Total Solar Photovoltaic
<b>Annual Totals</b>			
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
<b>Year 2018</b>			
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
<b>Year 2019</b>			
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
<b>Year 2020</b>			
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

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 - March 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

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, March 2020 and 2019 (Megawatts)**

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	6,012.3	5,937.5	24,221.4	23,144.3	1,797.4	1,797.4	67.3	37.8	3,323.5	3,997.1	48.0	48.0	35,469.9	34,962.1
Connecticut	457.7	420.8	7,874.8	7,273.4	29.4	29.4	1.6	1.6	2,073.1	2,073.1	26.0	26.0	10,462.6	9,824.3
Maine	2,230.5	2,347.1	2,499.3	2,478.8	0.0	0.0	16.2	16.2	0.0	0.0	22.0	22.0	4,768.0	4,864.1
Massachusetts	1,511.8	1,423.3	9,576.7	9,124.6	1,768.0	1,768.0	38.6	17.0	0.0	673.6	0.0	0.0	12,895.1	13,006.5
New Hampshire	956.5	928.1	2,289.9	2,289.9	0.0	0.0	0.0	0.0	1,250.4	1,250.4	0.0	0.0	4,496.8	4,468.4
Rhode Island	171.1	150.2	1,835.1	1,832.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,006.2	1,982.3
Vermont	684.7	668.0	145.6	145.5	0.0	0.0	10.9	3.0	0.0	0.0	0.0	0.0	841.2	816.5
Middle Atlantic	11,635.2	11,379.8	72,335.9	72,765.7	3,383.3	3,380.6	143.5	143.5	17,956.6	18,697.9	11.2	11.2	105,465.7	106,378.7
New Jersey	1,117.6	1,032.7	12,232.9	12,449.3	420.0	420.0	42.1	42.1	3,467.1	3,500.2	11.2	11.2	17,290.9	17,455.5
New York	7,542.8	7,485.7	25,999.1	26,894.7	1,411.3	1,408.6	53.0	53.0	5,396.3	5,400.7	0.0	0.0	40,402.5	41,242.7
Pennsylvania	2,974.8	2,861.4	34,103.9	33,421.7	1,552.0	1,552.0	48.4	48.4	9,093.2	9,797.0	0.0	0.0	47,772.3	47,680.5
East North Central	13,759.3	12,914.2	109,233.0	112,227.7	2,231.0	2,152.0	194.7	189.7	19,007.1	19,001.8	187.1	187.1	144,612.2	146,672.5
Illinois	5,734.1	4,966.6	27,062.2	29,056.5	0.0	0.0	132.7	132.7	11,582.4	11,582.4	78.0	78.0	44,589.4	45,816.2
Indiana	2,686.3	2,658.0	23,840.9	23,876.4	0.0	0.0	28.0	23.0	0.0	0.0	88.0	88.0	26,643.2	26,645.4
Michigan	3,013.1	2,993.9	20,175.1	20,287.2	2,231.0	2,152.0	1.0	1.0	4,089.6	4,089.6	0.0	0.0	29,509.8	29,523.7
Ohio	1,197.9	1,058.3	25,208.7	25,946.3	0.0	0.0	33.0	33.0	2,134.0	2,134.0	0.0	0.0	28,573.6	29,171.6
Wisconsin	1,127.9	1,237.4	12,946.1	13,061.3	0.0	0.0	0.0	0.0	1,201.1	1,195.8	21.1	21.1	15,296.2	15,515.6
West North Central	33,830.9	29,899.9	58,834.9	59,185.3	657.0	657.0	20.1	20.1	5,443.4	5,443.4	22.8	22.8	98,809.1	95,228.5
Iowa	10,681.7	8,968.5	9,829.4	9,808.2	0.0	0.0	1.1	1.1	601.4	601.4	0.0	0.0	21,113.6	19,379.2
Kansas	6,355.4	5,684.7	8,853.5	9,028.9	0.0	0.0	0.0	0.0	1,225.0	1,225.0	0.8	0.8	16,434.7	15,939.4
Minnesota	5,325.9	5,220.4	10,239.6	10,149.5	0.0	0.0	16.0	16.0	1,657.0	1,657.0	16.7	16.7	17,255.2	17,059.6
Missouri	1,579.0	1,579.0	17,427.1	17,672.0	657.0	657.0	2.2	2.2	1,190.0	1,190.0	0.0	0.0	20,855.3	21,100.2
Nebraska	2,495.7	2,332.9	6,196.6	6,201.8	0.0	0.0	0.0	0.0	770.0	770.0	0.0	0.0	9,462.3	9,304.7
North Dakota	4,198.3	3,637.6	4,601.2	4,633.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	8,804.8	8,276.5
South Dakota	3,194.9	2,476.8	1,687.5	1,691.3	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	4,883.2	4,168.9
South Atlantic	23,293.1	20,590.1	161,004.7	161,949.1	7,906.4	7,905.2	76.5	76.5	24,688.6	24,706.6	468.9	408.7	217,438.2	215,636.2
Delaware	50.9	47.4	3,322.6	3,330.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,373.5	3,377.8
District of Columbia	20.4	17.9	20.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	34.4
Florida	3,966.8	3,161.6	53,334.7	52,369.4	0.0	0.0	14.0	14.0	3,626.0	3,626.0	312.9	348.7	61,254.4	59,519.7
Georgia	4,771.8	4,018.6	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	36,798.0	36,997.3
Maryland	1,248.7	1,200.5	11,726.6	11,965.4	0.0	0.0	7.0	7.0	1,707.8	1,725.8	6.0	6.0	14,696.1	14,904.7
North Carolina	7,359.3	6,822.6	22,079.1	22,127.1	86.0	86.0	1.0	1.0	5,149.6	5,149.6	54.0	54.0	34,729.0	34,240.3
South Carolina	2,613.6	2,221.5	11,764.1	12,161.3	2,716.0	2,716.0	4.0	4.0	6,576.2	6,576.2	0.0	0.0	23,673.9	23,679.0
Virginia	2,231.3	2,069.7	18,918.3	19,140.4	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	96.0	0.0	28,054.6	28,019.1
West Virginia	1,030.3	1,030.3	13,737.9	13,784.1	0.0	0.0	49.5	49.5	0.0	0.0	0.0	0.0	14,817.7	14,863.9
East South Central	8,896.0	8,814.0	61,825.9	64,009.0	1,616.3	1,616.3	1.0	1.0	11,449.1	11,294.1	1.4	1.4	83,789.7	85,735.8
Alabama	4,103.8	4,086.1	19,627.9	20,660.7	0.0	0.0	1.0	1.0	5,525.4	5,370.4	0.0	0.0	29,258.1	30,118.2
Kentucky	1,247.6	1,245.2	17,308.3	18,290.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,555.9	19,535.5
Mississippi	520.5	463.0	12,647.4	12,867.7	0.0	0.0	0.0	0.0	1,401.0	1,401.0	1.4	1.4	14,570.3	14,733.1
Tennessee	3,024.1	3,019.7	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	21,349.0
West South Central	43,826.8	39,181.4	139,796.1	139,040.3	286.0	286.0	151.6	99.8	8,910.7	8,910.7	735.6	512.5	193,706.8	188,030.7
Arkansas	1,642.7	1,697.1	11,257.3	11,242.4	28.0	28.0	12.0	0.0	1,817.8	1,817.8	0.0	0.0	14,757.8	14,785.3
Louisiana	615.0	615.5	22,075.2	20,005.5	0.0	0.0	0.5	0.5	2,					

**Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, March 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	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	1,462.8	1,424.8	1,174.9	1,015.3	0.0	0.0	1,957.6	1,960.1	1,417.0	1,537.3	0.0	0.0	6,012.3	5,937.5	2,699.3	2,249.1	3,874.2	3,264.4	3,874.2	3,264.4
Connecticut	1.0	1.0	137.4	95.0	0.0	0.0	119.4	122.2	199.9	202.6	0.0	0.0	457.7	420.8	534.1	425.2	671.5	520.2	671.5	520.2
Maine	921.6	921.6	5.6	5.6	0.0	0.0	734.0	733.0	569.3	686.9	0.0	0.0	2,230.5	2,347.1	57.2	47.5	62.8	53.1	62.8	53.1
Massachusetts	105.7	96.1	854.9	775.3	0.0	0.0	266.3	267.0	284.9	284.9	0.0	0.0	1,511.8	1,423.3	1,691.2	1,488.0	2,546.1	2,263.3	2,546.1	2,263.3
New Hampshire	211.5	183.1	0.0	0.0	0.0	0.0	504.0	504.0	241.0	241.0	0.0	0.0	956.5	928.1	106.4	85.9	106.4	85.9	106.4	85.9
Rhode Island	72.8	72.8	55.5	34.6	0.0	0.0	2.7	2.7	40.1	40.1	0.0	0.0	171.1	150.2	186.8	94.1	242.3	128.7	242.3	128.7
Vermont	150.2	150.2	121.5	104.8	0.0	0.0	331.2	331.2	81.8	81.8	0.0	0.0	684.7	668.0	123.5	108.3	245.0	213.1	245.0	213.1
Middle Atlantic	3,453.3	3,467.3	1,474.3	1,159.9	0.0	0.0	5,474.1	5,473.2	1,233.5	1,279.4	0.0	0.0	11,635.2	11,379.8	3,748.3	3,116.0	5,222.6	4,275.9	5,222.6	4,275.9
New Jersey	7.6	7.6	888.8	785.5	0.0	0.0	12.3	12.3	208.9	227.3	0.0	0.0	1,117.6	1,032.7	1,736.3	1,493.2	2,625.1	2,278.7	2,625.1	2,278.7
New York	1,985.7	2,089.7	494.6	310.6	0.0	0.0	4,562.2	4,561.3	500.3	524.1	0.0	0.0	7,542.8	7,485.7	1,613.4	1,295.2	2,108.0	1,605.8	2,108.0	1,605.8
Pennsylvania	1,460.0	1,370.0	90.9	63.8	0.0	0.0	899.6	899.6	524.3	528.0	0.0	0.0	2,974.8	2,861.4	398.6	327.6	489.5	391.4	489.5	391.4
East North Central	11,178.9	10,332.1	540.3	469.9	0.0	0.0	878.8	859.9	1,161.3	1,252.3	0.0	0.0	13,759.3	12,914.2	723.1	433.1	1,263.4	903.0	1,263.4	903.0
Illinois	5,568.2	4,803.7	43.6	40.6	0.0	0.0	34.1	34.1	88.2	88.2	0.0	0.0	5,734.1	4,966.6	250.4	96.7	294.0	137.3	294.0	137.3
Indiana	2,309.8	2,309.8	245.3	217.0	0.0	0.0	60.4	60.4	70.8	70.8	0.0	0.0	2,686.3	2,658.0	104.0	79.1	349.3	296.1	349.3	296.1
Michigan	2,137.7	2,061.8	102.0	100.2	0.0	0.0	273.4	269.9	500.0	562.0	0.0	0.0	3,013.1	2,993.9	105.2	70.0	207.2	170.2	207.2	170.2
Ohio	843.5	718.4	109.0	88.2	0.0	0.0	101.9	101.9	143.5	149.8	0.0	0.0	1,197.9	1,058.3	171.6	122.5	280.6	210.7	280.6	210.7
Wisconsin	319.7	438.4	40.4	23.9	0.0	0.0	409.0	393.6	358.8	381.5	0.0	0.0	1,127.9	1,237.4	91.8	64.9	132.2	88.8	132.2	88.8
West North Central	29,088.3	25,269.0	1,030.3	876.0	0.0	0.0	3,296.7	3,296.7	415.6	458.2	0.0	0.0	33,830.9	29,899.9	456.3	353.4	1,486.6	1,229.4	1,486.6	1,229.4
Iowa	10,498.7	8,791.8	16.0	8.9	0.0	0.0	146.4	146.4	20.6	21.4	0.0	0.0	10,681.7	8,968.5	126.4	98.5	142.4	107.4	142.4	107.4
Kansas	6,329.2	5,658.5	10.2	10.2	0.0	0.0	7.0	7.0	9.0	9.0	0.0	0.0	6,355.4	5,684.7	27.2	21.2	37.4	31.4	37.4	31.4
Minnesota	3,850.9	3,850.5	922.7	775.8	0.0	0.0	205.9	205.9	346.4	388.2	0.0	0.0	5,325.9	5,220.4	75.7	63.2	998.4	839.0	998.4	839.0
Missouri	954.3	954.3	62.1	62.1	0.0	0.0	548.5	548.5	14.1	14.1	0.0	0.0	1,579.0	1,579.0	214.4	161.1	276.5	223.2	276.5	223.2
Nebraska	2,180.8	2,018.3	18.3	18.0	0.0	0.0	280.9	280.9	15.7	15.7	0.0	0.0	2,495.7	2,332.9	11.3	8.3	29.6	26.3	29.6	26.3
North Dakota	3,678.5	3,117.8	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	4,198.3	3,637.6	0.5	0.4	0.5	0.4	0.5	0.4
South Dakota	1,595.9	877.8	1.0	1.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	3,194.9	2,476.8	0.8	0.7	1.8	1.7	1.8	1.7
South Atlantic	1,086.3	1,086.3	10,670.0	8,085.6	0.0	0.0	7,201.2	7,224.4	4,335.6	4,193.8	0.0	0.0	23,293.1	20,590.1	2,222.5	1,813.8	12,892.5	9,899.4	12,892.5	9,899.4
Delaware	2.0	2.0	36.7	33.2	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	50.9	47.4	87.9	81.0	124.6	114.2	124.6	114.2
District of Columbia	0.0	0.0	8.4	5.9	0.0	0.0	0.0	0.0	12.0	12.0	0.0	0.0	20.4	17.9	69.0	48.6	77.4	54.5	77.4	54.5
Florida	0.0	0.0	2,739.2	1,926.3	0.0	0.0	43.5	54.5	1,184.1	1,180.8	0.0	0.0	3,966.8	3,161.6	546.9	342.6	3,286.1	2,268.9	3,286.1	2,268.9
Georgia	0.0	0.0	1,681.0	1,022.0	0.0	0.0	2,031.0	2,047.2	1,059.8	949.4	0.0	0.0	4,771.8	4,018.6	NM	NM	1,196.0	NM	1,196.0	NM
Maryland	190.0	190.0	327.8	279.6	0.0	0.0	590.0	590.0	140.9	140.9	0									

**Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, March 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	
	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019	March 2020	March 2019
New England	14,288.1	13,638.1	1,596.8	1,154.0	1,104.1	1,116.3	917.3	917.3	0.0	0.0	6,315.1	6,318.6	0.0	0.0	24,221.4	23,144.3
Connecticut	3,991.6	3,413.4	579.2	563.0	885.7	878.7	383.4	383.4	0.0	0.0	2,034.9	2,034.9	0.0	0.0	7,874.8	7,273.4
Maine	1,285.6	1,284.3	144.3	144.3	12.5	12.5	0.0	0.0	0.0	0.0	1,056.9	1,037.7	0.0	0.0	2,499.3	2,478.8
Massachusetts	5,962.7	5,895.2	857.1	430.5	180.5	199.7	0.0	0.0	0.0	0.0	2,576.4	2,599.2	0.0	0.0	9,576.7	9,124.6
New Hampshire	1,258.0	1,258.0	3.8	3.8	0.0	0.0	533.9	533.9	0.0	0.0	494.2	494.2	0.0	0.0	2,289.9	2,289.9
Rhode Island	1,790.2	1,787.2	12.4	12.4	25.4	25.4	0.0	0.0	0.0	0.0	7.1	7.1	0.0	0.0	1,835.1	1,832.1
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	145.6	145.5	0.0	0.0	145.6	145.5
Middle Atlantic	34,383.5	32,615.0	7,894.3	7,900.5	14,094.7	14,449.3	10,456.8	12,106.7	11.6	78.6	5,364.3	5,484.9	130.7	130.7	72,335.9	72,765.7
New Jersey	8,579.0	8,541.5	2,844.3	2,826.3	59.9	46.9	463.0	609.0	11.6	11.6	246.1	385.0	29.0	29.0	12,232.9	12,449.3
New York	8,918.9	8,877.9	3,177.6	3,165.7	9,699.6	9,675.0	652.1	1,631.5	0.0	0.0	3,550.9	3,544.6	0.0	0.0	25,999.1	26,894.7
Pennsylvania	16,885.6	15,195.6	1,872.4	1,908.5	4,335.2	4,727.4	9,341.7	9,866.2	0.0	67.0	1,567.3	1,555.3	101.7	101.7	34,103.9	33,421.7
East North Central	21,656.7	21,659.3	26,672.0	26,676.5	5,733.7	5,743.3	51,506.3	54,352.3	247.6	247.6	2,331.8	2,455.8	1,084.9	1,092.9	109,233.0	112,227.7
Illinois	3,580.2	3,580.2	10,530.4	10,510.1	1,626.7	1,629.8	10,615.5	12,626.0	0.0	0.0	672.9	673.9	36.5	36.5	27,062.2	29,056.5
Indiana	3,866.0	3,828.0	3,281.3	3,355.1	730.3	730.0	15,245.7	15,245.7	0.0	0.0	98.3	98.3	619.3	619.3	23,840.9	23,876.4
Michigan	4,394.3	4,413.6	3,849.5	3,874.0	2,561.0	2,558.5	8,608.3	8,680.4	47.2	47.2	464.8	463.5	250.0	20,175.1	20,287.2	
Ohio	7,037.8	7,026.4	5,652.7	5,575.1	185.6	114,960.0	12,246.0	142.0	515.5	584.6	179.1	187.1	25,208.7	25,946.3		
Wisconsin	2,778.4	2,811.1	3,358.1	3,362.2	630.1	639.9	5,540.8	5,554.2	58.4	58.4	580.3	635.5	0.0	0.0	12,946.1	13,061.3
West North Central	6,864.1	6,642.1	11,565.9	11,733.4	3,669.8	3,807.3	32,820.0	33,079.3	39.5	39.5	3,867.2	3,875.3	8.4	8.4	58,834.9	59,185.3
Iowa	1,829.0	1,781.0	1,226.8	1,259.4	548.9	539.2	5,364.8	5,371.7	39.5	39.5	820.4	817.4	0.0	0.0	9,829.4	9,808.2
Kansas	266.0	266.0	2,152.6	2,156.8	1,185.6	1,361.9	4,679.8	4,679.8	0.0	0.0	569.5	564.4	0.0	0.0	8,853.5	9,028.9
Minnesota	2,346.0	2,172.0	2,544.8	2,668.8	423.8	381.6	4,157.9	4,157.9	0.0	0.0	767.1	769.2	0.0	0.0	10,239.6	10,149.5
Missouri	1,794.9	1,794.9	3,390.7	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	17,427.1	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	321.3	321.8	0.0	0.0	6,196.6	6,201.8
North Dakota	0.0	0.0	408.0	408.0	111.6	111.6	4,010.0	4,042.4	0.0	0.0	63.2	63.2	8.4	8.4	4,601.2	4,633.6
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	474.0	474.0	0.0	0.0	220.2	224.0	0.0	0.0	1,687.5	1,691.3
South Atlantic	61,794.6	60,543.9	31,919.7	32,002.3	7,257.1	6,885.1	51,055.1	53,283.8	142.8	142.8	8,700.4	8,956.2	135.0	135.0	161,004.7	161,949.1
Delaware	1,504.0	1,511.0	316.4	317.2	843.1	843.1	410.0	410.0	0.0	0.0	114.1	114.1	135.0	135.0	3,322.6	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	31,868.2	30,971.5	7,825.7	7,743.1	2,503.2	2,493.2	7,782.0	7,804.0	59.0	59.0	3,296.6	3,298.6	0.0	0.0	53,334.7	52,369.4
Georgia	8,009.5	7,992.9	7,803.2	7,791.0	842.9	842.9	8,416.0	9,398.5	83.8	83.8	945.4	945.4	0.0	0.0	26,100.8	27,054.5
Maryland	2,845.7	2,849.1	1,939.2	1,994.0	1,416.1	1,513.1	4,270.0	4,330.0	0.0	0.0	1,255.6	1,279.2	0.0	0.0	11,726.6	11,965.4
North Carolina	5,514.2	5,068.0	6,050.7	6,050.7	1.0	1.0	10,011.2	10,504.8	0.0	0.0	502.0	502.6	0.0	0.0	22,079.1	22,127.1
South Carolina	3,185.0	3,185.0	2,625.2	2,754.9	950.0	546.0	4,769.0	5,212.0	0.0	0.0	234.9	463.4	0.0	0.0	11,764.1	12,161.3
Virginia	8,868.0	8,966.4	4,245.3	4,245.3	585.3	530.3	2,878.9	3,056.5	0.0	0.0	2,340.8	2,341.9	0.0	0.0	18,918.3	19,140.4
West Virginia	0.0	0.0	1,093.4	1,089.6	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	13,784.1
East South Central	21,772.3	21,746.2	12,744.1	12,626.1	4,298.6	4,593.1	22,884.4	24,906.8	0.0	0.0	106.7	117.0	19.8	19.8	61,825.9	64,009.0
Alabama	9,729.8	9,699.0	2,575.8	2,532.2	1,975.6	2,028.4	5,284.3	6,338.7	0.0	0.0	42.6	42.6	19.8	19.8	19,627.9	20,660.7
Kentucky	1,763.0	1,763.0	4,962.6	4,976.6	2											

**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	Paudling Wind Farm IV LLC	IPP	Timber Road IV	OH	62944	TRIV	125.1	Onshore Wind Turbine	WND	WT
2020	1	62964	Prawer Community Solar LLC	IPP	Prawer Project CSG	MN	63176	TC3	1.0	Solar Photovoltaic	SUN	PV
2020	1	16191	Robbins Lumber Inc	Industrial	Robbins Lumber	ME	50230	WEG	8.5	Wood/Wood Waste Biomass	WDS	ST
2020	1	60975	SR Innovation, LLC	IPP	SR Innovation - NIKE PV	TN	61332	NIKE2	1.7	Solar Photovoltaic	SUN	PV
2020	1	62966	STAG St. Paul Community Solar LLC	IPP	STAG St. Paul Project CSG	MN	63178	TC3	1.0	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	Mtn. Solar 3 CSG	CO	63379	X0134	1.5	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	USS Cheyenne Solar LLC CSG	MN	63145	CHYNE	1.0	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	USS Greenhouse Solar LLC CSG	MN	63143	GRHSE	1.0	Solar Photovoltaic	SUN	PV
2020	1	60531	Standard Solar	IPP	USS Turkey Solar LLC CSG	MN	63148	TURKY	1.0	Solar Photovoltaic	SUN	PV
2020	1	62906	Syncharpha Questa I, LLC	IPP	Syncharpha 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	Duis Solar, LLC	OR	63330	ORDUS	10.0	Solar Photovoltaic	SUN	PV
2020	2	62627	Alchemy Renewable Energy	IPP	Firwood Solar, LLC	OR	63331	ORFWD	10.0	Solar Photovoltaic	SUN	PV
2020	2	16873	City of Sebewaing - (MI)	Electric Utility	Pine Street	MI	7806	7	4.4	Natural Gas Internal Combustion Engine	NG	IC
2020	2	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV
2020	2	60496	Enerparc Inc.	IPP	Baker City Solar	OR	61854	BAKER	15.0	Solar Photovoltaic	SUN	PV
2020	2	63143	Falls Creek Garden LLC	IPP	Falls Creek Garden	MN	63394	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	2	62856	Forefront Power, LLC	IPP	Howell CSG	NY	63107	1725	2.0	Solar Photovoltaic	SUN	PV

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

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	3	9417	Interstate Power and Light Co	Electric Utility	Golden Plains	IA	62081	1	199.8	Onshore Wind Turbine	WND	WT
2020	3	62085	Mesquite Star LLC	IPP	Mesquite Star	TX	62587	MESQ	418.9	Onshore Wind Turbine	WND	WT
2020	3	63175	Mud Garden LLC	IPP	Mud Garden Solar	MN	63427	CGS	1.0	Solar Photovoltaic	SUN	PV
2020	3	63185	Neighborhood Power Corp.	IPP	St Louis Solar	OR	63456	W9319	2.2	Solar Photovoltaic	SUN	PV
2020	3	62837	Novel DeCook Solar LLC CSG	IPP	Novel DeCook Solar CSG	MN	62979	DECO	1.0	Solar Photovoltaic	SUN	PV
2020	3	61758	Prevailing Wind Park, LLC	IPP	Prevailing Wind Park	SD	62247	PWPSPD	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

## 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

## 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	4	61012	AES Distributed Energy	IPP	Cronin Road Solar 1, LLC	MA	63011	CRONI	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2020	4	61012	AES Distributed Energy	IPP	Cycz Solar Project	MA	63472	BATT	1.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.3
2020	4	61012	AES Distributed Energy	IPP	Cycz Solar Project	MA	63472	CYCZ	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	4	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	4	61012	AES Distributed Energy	IPP	Lane Ave Solar LLC	MA	63041	HANRA	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2020	4	61012	AES Distributed Energy	IPP	McDougle-Mitchell Solar Project	MA	63470	BATT	2.9	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.9
2020	4	61012	AES Distributed Energy	IPP	McDougle-Mitchell Solar Project	MA	63470	MCDMT	4.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.5
2020	4	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	4	61012	AES Distributed Energy	IPP	Partridge Solar Project	MA	63435	BATT	1.3	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.3
2020	4	61012	AES Distributed Energy	IPP	Partridge Solar Project	MA	63435	PRTDG	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	4	61012	AES Distributed Energy	IPP	Ryan Road Solar LLC	MA	63044	ORCHA	4.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.3
2020	4	55918	Acciona Wind Energy USA 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	4	59496	Alteo Clean Energy	IPP	South Peak Wind	MT	62939	41001	80.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	80.0
2020	4	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
2020	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
2020	4	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	MN	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2020	4	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	4	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	4	62900	Caden Energix Rives Road LLC	IPP	Caden Energix Rives Road LLC	VA	63087	ENX01	19.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.7
2020	4	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	4	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	4	10623	City of Lakeland - (FL)	Electric Utility	C D McIntosh Jr	FL	676	GT2	115.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	135.0
2020	4	62855	Clear Creek Wind, LLC	IPP	Clear Creek Wind	MO	63025	V110	22.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	22.0
2020	4	62855	Clear Creek Wind, LLC	IPP	Clear Creek Wind	MO	63025	V120	220.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	220.0
2020	4	56769	Consolidated Edison Development Inc.	IPP	CED Mason City Wind	IA	63521	MCW1	7.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	7.5
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	143.3	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	174.2
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	143.3	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	174.2
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	143.3	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	174.2
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U004	195.4	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	263.3
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U005	195.4	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	263.3
2020	4	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U006	195.4	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	263.3
2020	4	61060	Cypress Creek Renewables	IPP	Huntley	SC	63271	1295	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	75.0
2020	4	62800	De Edison New Jersey LLC	IPP	DG Iron Mountain	NJ	62957	IRNMT	5.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.4
2020	4	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST8	102.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	102.8
2020	4	58135	Ecos Energy LLC	IPP	Plainfield Solar 2	CT	63263	PLFD2	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	4	13478	Entergy New Orleans, LLC	Electric Utility	New Orleans Power	LA	60928	1	250.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	250.0
2020	4	63176	Erin Garden LLC	IPP	Erin Garden Solar	MN	63429	CSG	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	4	6452	Florida Power & Light Co	Electric Utility	Echo River Solar	FL	62490	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2020	4	6452	Florida Power & Light Co	Electric Utility	Hibiscus Solar Energy Center	FL	62206	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2020	4	6452	Florida Power & Light Co	Electric Utility	Okeechobee Solar	FL	62491	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2020	4	6452	Florida Power & Light Co	Electric Utility	Southfork Solar	FL	62493	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2020	4	62856	Frontpoint 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	4	65441	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	4	61944	GSRP	IPP	Chevron - Lost Hills	CA	63545	GEN1	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2020	4	61944	GSRP	IPP	Lafayette 2 - Internal Services Dept	CA	63527	GEN1	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2020	4	61194	Generate Capital	IPP	Washington St Community Solar Farm #3	NY	62473	1035	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2020	4	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	4	63399	Hertzberg Community Solar	IPP	Hertzberg Community (CSG)	MN	63680	HERTZ	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	4	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG1	268.5	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	295.0
2020	4	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	CTG2	268.5	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	295.0
2020	4	60659	Hickory Run Energy, LLC	IPP	Hickory Run Energy Station	PA	61028	STG1	437.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	443.7
2020	4	62046	High Lonesome Wind Power, LLC	IPP	High Lonesome Wind Power, LLC	TX	62562	HILO	449.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	449.5
2020	4	9234	Indiana Municipal Power Agency	Electric Utility	Scottsburg Solar Park	IN	62766	SCCOT	7.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	7.1
2020	4	49893	Inverenergy Services LLC	IPP	Beech Ridge II Wind Energy Center	WV	62482	GEN1	56.2	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	56.2

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	4	61980	Valta Energy	IPP	Mauka FIT One	HI	58662	3501	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2020	4	63173	Zumbro Garden LLC	IPP	Zumbro Solar Garden	MN	63426	CGS	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	5	61012	AES Distributed Energy	IPP	Allis Medina Solar LLC	NY	63129	ALLIS	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	5	61012	AES Distributed Energy	IPP	Beals Medina Solar LLC	NY	63130	BEALS	3.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.5
2020	5	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLSL3	136.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	136.8
2020	5	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLS4A	68.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	68.7
2020	5	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLS4B	68.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	68.7
2020	5	62834	Caden Energix Pamplin LLC	IPP	Caden Energix Pamplin LLC	VA	63083	ENX04	15.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.7
2020	5	2848	California Institute-Technology	Commercial	California Institute of Technology	CA	10262	GEN8	9.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	10.5
2020	5	17568	Cooperative Energy	Electric Utility	Benndale	MS	2068	BENU1	11.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	14.2
2020	5	17568	Cooperative Energy	Electric Utility	Benndale	MS	2068	BENU2	11.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	14.2
2020	5	60370	DG AMP Solar, LLC	IPP	DG AMP Rittman Rd	OH	62941	AMPRR	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6
2020	5	5109	DTE Electric Company	Electric Utility	Polaris Wind Park	MI	62290	1	168.6	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	168.6
2020	5	6455	Duke Energy Florida, LLC	Electric Utility	Debary Solar Power Plant	FL	62542	PV1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2020	5	61420	ENGIE Storage Services NA LLC	Commercial	Pacific Union College BESS	CA	61795	12649	1.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	1.0
2020	5	62852	ESA Hamlet NC LLC	IPP	ESA Hamlet NC , LLC	NC	63377	PGR10	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	5	60496	Enerparc Inc.	IPP	Morgan Solar Center	OR	61855	MORGN	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2020	5	60496	Enerparc Inc.	IPP	Ontario Solar Center	OR	61860	ONTRO	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2020	5	60496	Enerparc Inc.	IPP	Vale Solar Center	OR	61856	VALE	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2020	5	62856	Frontfront Power, LLC	IPP	Fresno Sunnyside High School	CA	63422	BA112	0.3	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	0.3
2020	5	62856	Frontfront Power, LLC	IPP	Reed Road Solar	IL	63071	1822	1.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.3
2020	5	62856	Frontfront Power, LLC	IPP	Square Barn Solar	IL	63070	1820	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.5
2020	5	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	5	61944	GSRP	IPP	Lafayette 2 - MLK Jr. Hospital (MLK)	CA	63623	GEN1	1.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.7
2020	5	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	5	7140	Georgia Power Co	Electric Utility	Moody Air Force Base Solar	GA	62377	1	49.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	49.5
2020	5	62759	Geronimo Energy	IPP	Hydra Community Solar Garden, LLC	MN	63629	HYDRA	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	5	60719	Harvest Ridge Wind Farm	IPP	Broadlands Wind Farm	IL	61161	GEN01	300.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	300.0
2020	5	62046	High Lonesome Wind Power, LLC	IPP	High Lonesome Wind Power, LLC	TX	62562	HILO2	50.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	50.0
2020	5	9234	Indiana Municipal Power Agency	Electric Utility	Gas City Solar Park	IN	62767	SGASC	2.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.5
2020	5	9234	Indiana Municipal Power Agency	Electric Utility	Tell City Solar Park	IN	62790	STEL2	3.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.2
2020	5	62915	Madison Energy Holdings LLC	IPP	Houston/Winona Community Solar One LLC	MN	63534	52827	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	5	62915	Madison Energy Holdings LLC	IPP	Nicollet Community Solar One LLC	MN	63120	52828	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	5	12303	Merck & Co Inc-West Point	Industrial	West Point (PA)	PA	52149	GEN16	1.1	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	1.3
2020	5	56990	NJR Clean Energy Ventures Corporation	IPP	Campus Drive Solar	NJ	63334	CAMPS	3.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.7
2020	5	6183	Oxy Renewable Energy LLC	IPP	Oxy Renewable Energy - Goldsmith	TX	63388	SOLAR	16.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	16.8
2020	5	62009	Palmer Solar LLC	IPP	Palmer Solar	CO	62495	20181	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	60.0
2020	5	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	5	63164	Robin Solar, LLC	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	5	61634	SR Terrell, LLC	IPP	SR Terrell	GA	62058	TERRL	74.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.0
2020	5	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	5	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	5	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	5	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	5	60531	Standard Solar	IPP	USS Christoffer Solar LLC CSG	MN	63152	CHRST	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	5	60531	Standard Solar	IPP	USS Solar Sources LLC CSG	MN	63151	SOURC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	5	60531	Standard Solar	IPP	USS Westeros Solar LLC CSG	MN	63140	USSWS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	5	60970	SunShare Management	IPP	Linden 01 CSG	MN	63179	KANE1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	5	60970	SunShare Management	IPP	Linden 02 CSG	MN	63182	LIND2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	5	60970	SunShare Management	IPP	Linden 03 CSG	MN	63183	LIND3	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	5	62822	Syncarpha Blandford, LLC	IPP	Syncarpha Blandford Hybrid CSG	MA	62975	SYBLB	3.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	3.5
2020	5	62905	Syncarpha Taos I, LLC	IPP	Syncarpha Taos	NM	63123	SYNTA	3.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.1
2020	5	62919	TPE King Solar Holdings1 LLC	IPP	King CSG	RI	63135	KING2	7.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.8
2020	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	6	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	8.9
2020	6	58135	Ecos Energy LLC	IPP	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	6	58135	Ecos Energy LLC	IPP	Dickinson Solar (CT)	CT	63245	DCKN	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	6	58135	Ecos Energy LLC	IPP	Sydney Solar	CT	63244	SYDN	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2020	6	60496	Enparc 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
2020	6	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	6	63081	Eexus North America Management Partners LLC	IPP	Bearcat II Wind Energy LLC	TX	63342	BKII	162.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	162.1
2020	6	62856	Frontfront 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	6	62856	Frontfront Power, LLC	IPP	Harmony Road Solar	IL	63069	1823	1.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.9
2020	6	62856	Frontfront Power, LLC	IPP	Mooseheart School Solar	IL	63073	1817	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2020	6	65441	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	40.0
2020	6	61873	GA Solar 4	IPP	Twiggs Solar	GA	61696	TWIGG	200.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	6	63292	Harmony Florida Solar LLC	IPP	Harmony Solar	FL	63582	HFS	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	6	62638	Helen Solar LLC	IPP	Helen Solar CSG	MN	62706	SC	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2020	6	9234	Indiana Municipal Power Agency	Electric Utility	Crawfordsville Solar Park 4	IN	62776	SCRA4	2.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.3
2020	6	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Whitetail Solar 3	PA	62991	PAWT3	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2020	6	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	6	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	6	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	6	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	6	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	6	61219	Longroad Energy Services LLC	IPP	Prospero Solar	TX	62755	PROSP	300.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	300.0
2020	6	63206	Minke Solar, LLC	IPP	Minke Solar	OR	63465	PGR20	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2020	6	63204	Mohea Solar Energy Center, LLC	IPP	Mohea Solar Energy Center, LLC	SC	63463	PGR14	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	6	63185	Neighborhood Power Corp.	IPP	Dunn Road Solar	OR	63642	W9736	1.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.8
2020	6	62640	Northfield Solar LLC	IPP	Northfield Solar CSG	MN	62708	SC	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	6	62869	Novel Benedix Solar LLC CSG	IPP	Novel Benedix Solar CSG	MN	63010	BNDX	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	6	62864	Novel Haley Solar LLC CSG	IPP	Novel Haley Solar CSG	MN	63005	HALY	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	6	62847	Novel Pederson Solar LLC CSG	IPP	Novel Pederson Solar CSG	MN	62983	PED	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2020	6	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	6	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	6	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	6	63202	Pika Solar, LLC	IPP	Pika Solar	OR	63462	PGR17	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2020	6	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	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82059	124.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	124.0
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82060	79.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	79.0
2020	6	62913	Roundhouse Renewable Energy, LLC	Industrial	Roundhouse Wind Energy Project	WY	63133	82061	23.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	23.0
2020	6	63074	Scout Clean Energy LLC	IPP	Heart of Texas Wind Project	TX	61032	HTX	160.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	160.0
2020	6	17650	Southern Power Co	Electric Utility	Skookumchuck Wind Facility	WA	63205	1	136.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	136.0
2020	6	60531	Standard Solar	IPP	Town of Burrillville Solar	RI	62898	X0042	4.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.2
2020	6	60531	Standard Solar	IPP	USS B&B Solar LLC CSG	MN	63216	BB	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Charot Solar LLC	MN	63171	CHROT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Mayhew Solar LLC CSG	MN	63144	MAYHW	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Milkweed Solar LLC CSG	MN	63142	MLKWD	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Monarch Solar LLC CSG	MN	63147	MNRCH	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2020	6	60531	Standard Solar	IPP	USS Sunrise Solar LLC CSG	MN	63141	SNRSE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	63290	Taylor Creek Solar LLC	IPP	Taylor Creek Solar	FL	63583	TCS	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	6	62955	USS Hancock Solar	IPP	USS Hancock Solar LLC CSG	MN	63167	HNCCK	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	6	62637	Walcott Solar LLC	IPP	Walcott Solar CSG	MN	62707	SC	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	6	62641	Warsaw Solar LLC	IPP	Warsaw Solar CSG	MN	62709	SC	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2020	6	58106	Western Michigan University	Commercial	Western Michigan University Power Plant	MI	58161	EG-10	2.5	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.5
2020	6	58106	Western Michigan University	Commercial	Western Michigan University Power Plant	MI	58161	EG-9	2.5	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	2.5
2020	7	63190	1009 Yadkin Solar, LLC	IPP	1009 Yadkin Solar	NC	63445	1009	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2020	7	61012	AES Distributed Energy	IPP	Randall Solar Project	MA	63475	BATT						

**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	63072	Cerro Gordo Wind Farm	IPP	Cerro Gordo Wind Farm	IA	63287	CGWF	42.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	42.0
2020	8	59550	Croda Inc.	Industrial	Croda Atlas Point CHP	DE	59783	91199	2.0	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	8	61060	Cypress Creek Renewables	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.0
2020	8	61060	Cypress Creek Renewables	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	8	58970	Ecoplexus, Inc	IPP	HWY 158 PV	NC	63566	HW158	9.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	9.0
2020	8	56201	Engie North America	IPP	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	8	60025	Greenbacker Renewable Energy Corporation	IPP	Solar Hagerstown	MD	62912	137	7.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2020	8	49893	Inverenergy 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	Inverenergy 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	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	8	63185	Neighborhood Power Corp.	IPP	Mt Hope Solar	OR	63663	W0053	2.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.5
2020	8	63185	Neighborhood Power Corp.	IPP	River Valley Solar	OR	63665	W0054	1.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.9
2020	8	63185	Neighborhood Power Corp.	IPP	Williams Acres Solar	OR	63664	W0055	2.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.5
2020	8	13484	New York Methodist Hospital	IPP	New York Methodist Hospital	NY	52091	CCHEG	1.5	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	1.5
2020	8	63014	Novel Debra Solar LLC	IPP	Novel Debra Solar LLC CSG	MN	63247	DEBRA	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	8	62848	Novel Jewison Solar LLC CSG	IPP	Novel Jewison Solar CSG	MN	62984	JEWI	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	8	62850	Novel Kanewischer Solar LLC CSG	IPP	Novel Kanewischer Solar CSG	MN	62986	KANE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	63015	Novel Loren Solar LLC	IPP	Novel Loren Solar LLC CSG	MN	63248	LOREN	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	8	62846	Novel Schmoll Farms Solar LLC CSG	IPP	Novel Schmoll Farms Solar CSG	MN	62982	SCHM	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	8	63017	Novel Wayne Solar LLC	IPP	Novel Wayne Solar LLC CSG	MN	63249	WAYNE	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4A	122.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	122.0
2020	8	61521	Pegasus Wind, LLC	IPP	Pegasus Wind	MI	61916	PWEC	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	8	61521	Pegasus Wind, LLC	IPP	Pegasus Wind	MI	61916	PWEC2	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2020	8	61592	Pleimont Solar 1 LLC	IPP	Pleimont Solar 1	VA	62012	PLNM1	75.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	75.0
2020	8	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.7	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.7
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	37.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	41.5
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	37.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	41.5
2020	8	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	37.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	41.5
2020	8	60531	Standard Solar	IPP	USS Cougar Solar LLC CSG	MN	63158	COUGR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS Flower Solar LLC CSG	MN	63159	FLOWR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS Horne North Solar LLC CSG	MN	63154	HORN	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS Horne South Solar LLC CSG	MN	63155	HORNS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS JJ Clay Solar LLC CSG	MN	63156	JJCLY	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	60531	Standard Solar	IPP	USS Verde Solar LLC CSG	MN	63157	VERDE	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62819	Syncarpha Halifax, LLC	IPP	Syncarpha Halifax Hybrid	MA	62973	SYHAS	1.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.7
2020	8	62821	Syncarpha Northampton, LLC	IPP	Syncarpha Northampton Hybrid	MA	62976	SYNOS	3.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.6
2020	8	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	8	59598	Tooele Army Depot	IPP	Tooele Army Depot	UT	59817	PV1	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2020	8	62946	USS All In Solar LLC	IPP	USS All In Solar LLC CSG	MN	63160	ALLIN	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62958	USS Kass Solar LLC	IPP	USS Kass Solar LLC	MN	63170	KASS	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	8	62701	Vista Solar, Inc.	IPP	Guittard Chocolates	CA	63190	GCHOC	1.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.5
2020	8	62701	Vista Solar, Inc.	IPP	Hopkinton Phase 2	RI	63191	HTP2	2.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.5
2020	8	62748	Wildcat I Energy Storage LLC	IPP	Wildcat I Energy Storage LLC	CA	62875	WILD1	3.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	3.0
2020	9	61012	AES Distributed Energy	IPP	Greenwich Solar 1, LLC	NY	63411	RTE40	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2020	9	59474	Bo Energy LLC	IPP	Yeoman Creek	IL	61910	YEOM	8.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	8.8
2020	9	63373	Bitter Ridge Wind Farm, LLC	IPP	Bitter Ridge Wind Farm, LLC	IN	63666	BIT	130.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	130.0
2020	9	62805	Bluestone Farm Solar, LLC	IPP	Bluestone Solar	VA	62950	BLUE1	49.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.9
2020	9	72777	Calpine Corporation	IPP	Buckeye Geothermal Power Plant	CA	57180	1	49.9	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	56.9
2020	9	72777	Calpine Corporation	IPP	Wild Horse Power Plant	CA	57181	1	40.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	48.0
2020	9	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	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	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	9

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2020	9	62821	Syncarpha Northampton, LLC	IPP	Syncarpha Northampton Hybrid	MA	62976	SYNOB	2.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	9	62044	TG High Prairie Wind, LLC	IPP	High Prairie Wind Farm	MO	62563	HPWF	400.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	400.0
2020	9	61534	Techren Solar III LLC	IPP	Techren Solar III LLC	NV	61931	TECH3	25.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	25.0
2020	9	61535	Techren Solar IV LLC	IPP	Techren Solar IV LLC	NV	61932	TECH4	25.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	25.0
2020	9	61890	Tenaska Nobles 2 Power Partners, LLC	IPP	Nobles 2 Wind Project	MN	62364	WT1	250.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.0
2020	9	24211	Tucson Electric Power Co	Electric Utility	Oso Grande Wind Farm	NM	63502	OGW24	33.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.8
2020	9	24211	Tucson Electric Power Co	Electric Utility	Oso Grande Wind Farm	NM	63502	OGW45	216.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	216.0
2020	9	62701	Vista Solar, Inc.	IPP	Bio-Rad	CA	63189	BIORD	2.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.5
2020	10	63193	1045 Tomlin Mill Solar, LLC	IPP	1045 Tomlin Mill Solar	NC	63448	1045	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2020	10	63191	1073 Onslow Solar, LLC	IPP	1073 Onslow Solar	NC	63446	1073	4.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.7
2020	10	61012	AES Distributed Energy	IPP	Middletown Solar 1, LLC	NY	63415	BATT	1.6	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	1.6
2020	10	61012	AES Distributed Energy	IPP	Middletown Solar 1, LLC	NY	63415	CENTR	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2020	10	59474	BQ Energy LLC	IPP	West Valley East	NY	62738	WVE	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	10	59474	BQ Energy LLC	IPP	West Valley West	NY	62737	WWV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	10	2265	Bristol-Myers Squibb Co	IPP	Bristol Myers Squibb Lawrenceville	NJ	58947	TG102	5.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	5.4
2020	10	59319	Cotton Solar, LLC	IPP	Cotton Solar	SC	59572	PV1	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2020	10	61610	Delaware River Solar, LLC	IPP	Big Tree Community Solar Farm	NY	62476	607	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	10	61610	Delaware River Solar, LLC	IPP	Route 19 #1 Community Solar Farm	NY	62500	1258	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	10	61610	Delaware River Solar, LLC	IPP	Route 19 #2 Community Solar Farm	NY	62502	1415	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	10	61610	Delaware River Solar, LLC	IPP	Route 5 & 20 Community Solar Farm	NY	62523	1093	2.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.3
2020	10	61610	Delaware River Solar, LLC	IPP	State Route 64N Community Solar Farm	NY	62520	1089	1.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.2
2020	10	61610	Delaware River Solar, LLC	IPP	Telegraph Rd #1 Community Solar Farm	NY	62496	1268	3.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.8
2020	10	61610	Delaware River Solar, LLC	IPP	Telegraph Rd #2 Community Solar Farm	NY	62498	1413	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	10	57170	EDF Renewable Asset Holdings, Inc.	IPP	Coyote Wind LLC	TX	63655	COY	242.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	242.5
2020	10	56201	Engie North America	IPP	Las Lomas Wind Project	TX	63101	WTG	201.6	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	201.6
2020	10	61853	Innogy Renewables US LLC	IPP	Scioto Ridge Wind Farm	OH	58780	1	249.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	249.8
2020	10	49893	Inverenergy 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	62842	Lightsource Renewable Energy Asset Management, LLC	IPP	Wildflower Solar 1	CA	62988	CAWF1	13.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	13.0
2020	10	61219	Longroad Energy Services LLC	IPP	Weaver Wind	ME	63132	WEAVR	72.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	72.6
2020	10	63394	MSAP 13, LLC	IPP	MSAP 13	NY	63675	TROYL	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	10	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN6	1.2	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	1.2
2020	10	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN7	1.2	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	1.2
2020	10	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	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	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
2020	10	63374	Sanford Airport Solar, LLC	IPP	Sanford Solar	ME	63667	SAS	49.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	49.4
2020	10	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	72.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	75.0
2020	10	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	72.7	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	75.0
2020	10	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	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	10	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	10	62814	Syncarpha Leicester, LLC	IPP	Syncarpha Leicester Hybrid	MA	62972	SYLES	2.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.6
2020	10	62826	Syncarpha Puddon I, LLC	IPP	Syncarpha Puddon I Hybrid	MA	62969	SYP1S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	10	62827	Syncarpha Puddon II, LLC	IPP	Syncarpha Puddon II Hybrid	MA	62970	SYP2S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	10	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
2020	10	61637	TUUSO Energy, LLC	IPP	Fumara Solar Project	WA	62070	FUMAR	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2020	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
2020	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
2020														

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	62759	Geronimo Energy	IPP	Bellflower Solar, LLC	MN	63318	BELLF	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Coral Bells Solar, LLC	MN	63313	CORAL	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Honeysuckle Solar, LLC	MN	63309	HONEY	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Lantana Solar, LLC	MN	63311	LANTA	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Marigold Community Solar Garden, LLC	MN	63308	MGOLD	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62759	Geronimo Energy	IPP	Westport Community Solar, LLC	MN	63307	WESTP	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	60222	Haidi Energy, Inc.	Electric Utility	Hiliangaya Hydro	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	5.0
2020	11	62879	Hickory Grove #1 LLC	IPP	Hickory Grove #1	NY	62831	25	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2020	11	62880	Hickory Grove #2	IPP	Hickory Grove #2	NY	62832	309	1.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.7
2020	11	9234	Indiana Municipal Power Agency	Electric Utility	Richmond Solar Park 4	IN	62791	SRIC4	7.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.1
2020	11	49893	Inverenergy 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	Inverenergy Services LLC	IPP	Lovelock Solar	NV	62934	GEN1	190.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	190.0
2020	11	63128	Jordan Creek Wind Farm, LLC	IPP	Jordan Creek Wind Farm, LLC	IN	63389	JCW	400.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	400.0
2020	11	61219	Longroad Energy Services LLC	IPP	Milford Solar 1	UT	62812	MS1	99.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	99.0
2020	11	61790	McCormick Solar	IPP	McCormick Solar	SC	62279	57	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	11	56990	NJR Clean Energy Ventures Corporation	ACCP NJ 1		NJ	63198	ACCP1	1.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.2
2020	11	62758	Orchard Windfarm, LLC	IPP	Orchard Windfarm, LLC	OR	62935	OCHW	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2020	11	14232	Otter Tail Power Co	Electric Utility	Merricourt Wind Energy Center	ND	57048	1	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	11	14354	PacifiCorp	Electric Utility	Ekola Flats	WY	62591	1	250.9	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	250.9
2020	11	14354	PacifiCorp	Electric Utility	TB Flats	WY	62516	1	503.2	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	503.2
2020	11	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
2020	11	62908	Sand Hill B, LLC	IPP	Sand Hill B	CA	63652	SNDHB	17.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	17.0
2020	11	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
2020	11	61814	Sandler Solar	IPP	Sandler Solar	SC	62298	70	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	11	61829	Shem Solar	IPP	Shem Solar	SC	62308	72	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
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	62824	Syncarpha Northbridge I, LLC	IPP	Syncarpha Northbridge I Hybrid	MA	62977	SYN1S	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2020	11	62826	Syncarpha Puddon I, LLC	IPP	Syncarpha Puddon I Hybrid	MA	62969	SYP1B	4.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	11	62827	Syncarpha Puddon II, LLC	IPP	Syncarpha Puddon II Hybrid	MA	62970	SYP2B	4.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	4.0
2020	11	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
2020	11	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
2020	11	62954	USS Bush Solar LLC	IPP	USS Bush Solar LLC CSG	MN	63166	BUSH	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62973	USS Dot Com Solar LLC	IPP	USS Dot Com Solar LLC CSG	MN	63215	DOTCM	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2020	11	62956	USS Pheasant Solar LLC	IPP	USS Pheasant Solar LLC	MN	63168	PHSNT	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62953	USS Reindeer Solar LLC	IPP	USS Reindeer Solar LLC CSG	MN	63165	RENDR	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	11	62978	USS Water City Solar LLC	IPP	USS Water City Solar LLC CSG	MN	63220	WTRCY	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2020	11	62977	USS Water Fowl Solar LLC	IPP	USS Water Fowl Solar LLC CSG	MN	63219	WTRFL	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2020	11	62976	USS Water Town Solar LLC	IPP	USS Water Town Solar LLC CSG	MN	63218	WTRTN	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2020	11	61865	Wayfair Solar	IPP	Wayfair Solar	SC	62345	89	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	11	61870	Yemassee Solar	IPP	Yemassee Solar	SC	62353	93	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2020	12	62006	7X Energy, Inc.	IPP	Taygete Energy Project LLC	TX	62483	PV1	255.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	255.0
2020	12	57416	Acciona Energy USA Global, LLC	IPP	La Chalupa, LLC	TX	63624	LC	198.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	198.5
2020	12	62627	Alchemy Renewable Energy	IPP	Twittys Creek Solar, LLC	VA	63077	VATC	13.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	13.8
2020	12	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
2020	12	59496	Allete Clean Energy	IPP	Diamond Spring, LLC	OK	63327	46001	303.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	303.0
2020	12	62119	Antelope Expansion 3A, LLC	IPP	Antelope Expansion 3A	CA	62673	ANX3A	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2020	12	62118	Antelope Expansion 3B, LLC	IPP	Antelope Expansion 3B	CA	62674	ANX3B	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2020	12	61949	Assembly Solar I, LLC	IPP	Assembly Solar Project	MI	62422	ASP01	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2020	12	63021	Aurora Wind Project, LLC	IPP	Aurora Wind Project	ND	63258	AURWP	298.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	298.8
2020	12	15399	Avangrid Renewables LLC	IPP	La Joya NM	NM	61044	WT1	306.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	306.2
2020	12	15399	Avangrid Renewables LLC	IPP	Roaring Brook, LLC	NY	61041	WT1	78.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	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	61713	B & K Solar	IPP</										

**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	61302	Depot Solar Center, LLC	IPP	Depot Solar Center, LLC	VA	61691	DEPOT	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2020	12	61709	Desert Harvest, LLC	IPP	Desert Harvest, LLC	CA	62177	DH001	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2020	12	5248	Dominion Energy Inc	Electric Utility	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	62699	PV1	25.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	25.0
2020	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Maiden Creek Solar Power Plant	NC	62688	PV1	69.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	69.3
2020	12	61785	EDP Renewables North America LLC	IPP	Crossing Trails Wind Farm	CO	62489	GEN1	104.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	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	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
2020	12	62667	East Line Solar, LLC	IPP	East Line Solar	AZ	62899	EASTL	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2020	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2020	12	58970	Ecoplexus, Inc	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	12	58135	Ecos Energy LLC	IPP	Weybridge 1 Solar	VT	61038	WEY1	3.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.0
2020	12	5860	Empire District Electric Co	Electric Utility	Kings Point Wind Energy Center	MO	62475	KPW1	149.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	149.4
2020	12	5860	Empire District Electric Co	Electric Utility	Neosho Ridge Wind Energy Center	KS	62481	NRW1	301.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	301.0
2020	12	5860	Empire District Electric Co	Electric Utility	North Fork Ridge Wind Energy Center	MO	62478	NFRW1	149.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	149.4
2020	12	60496	Enerpac 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	Enerpac 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	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	61732	Fairfield Solar	IPP	Fairfield Solar	SC	62212	36	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2020	12	56615	First Solar Project Development	IPP	American Kings Solar, LLC	CA	60777	GEN01	123.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	123.0
2020	12	61733	Fishwater Solar	IPP	Fishwater Solar	SC	62213	37	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
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	Floquist Community Solar LLC	IPP	Floquist Community Solar LLC	MN	63650	TC3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	6452	Florida Power & Light Co	Electric Utility	Egret Solar Center	FL	62925	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Lakeside Solar Center	FL	62922	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Magnolia Springs Solar Center	FL	62915	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Nassau Solar Center	FL	62914	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2020	12	6452	Florida Power & Light Co	Electric Utility	Trailsides 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	61735	Foreman Solar	IPP	Foreman Solar	SC	62215	39	6.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.4
2020	12	61737	GEB Solar	IPP	GEB Solar	SC	62217	40	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.0
2020	12	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
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	61888	Groversville Community Solar LLC	IPP	Groversville Landfill Solar	NY	62357	08158	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
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	(U) Under construction, less than or equal to 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	(L) Regulatory approvals pending. Not under construction	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	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
2020	12	62134	Hunter Solar LLC	IPP	Hunter Solar LLC	UT	62656	HUSOL	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2020	12	61747	Indigo Solar	IPP	Indigo Solar	SC	62230	44	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	12	61853	Innogy Renewables US LLC	IPP	Baron Winds Farm	NY	60596	1	272.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	272.0
2020	12	61853	Innogy Renewables US LLC	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	126.0
2020	12	61853	Innogy Renewables US LLC	IPP	Coyote Crest Wind Farm	WA	58778	1	127.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	127.5
2020	12	61853	Innogy Renewables US LLC	IPP	Horse Thief Wind Project, LLC	MT	59758	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2020	12	61853	Innogy Renewables US LLC	IPP	Mason Dixon Wind Farm	PA	60212	1	79.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	79.9
2020	12	61853	Innogy Renewables US LLC	IPP	Mud Springs Wind Project, LLC	MT	59756	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2020	12	61853	Innogy Renewables US LLC	IPP	Pryor Caves Wind Project, LLC	MT	59757	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2020	12	49893	Invenergy Services LLC	IPP	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
2020	12	49893	Invenergy Services LLC	IPP	Deuel Harvest Wind Energy LLC	SD	62943	GEN1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2020	12	49893	Invenergy Services LLC	IPP	Hardin Solar Energy LLC	OH	63029	GEN1	150.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2020	12	49893	Invenergy Services LLC	IPP	Sundance Wind Project, LLC	OK	63489	GEN1	199.0	Onshore Wind Turbine				

**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	12341	MidAmerican Energy Co	Electric Utility	Diamond Trail Wind Farm	IA	63641	DTWF	252.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	252.5
2020	12	12341	MidAmerican Energy Co	Electric Utility	Palo Alto Wind Farm	IA	63053	PAWF2	90.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	90.0
2020	12	12341	MidAmerican Energy Co	Electric Utility	Southern Hills Wind Farm	IA	63640	SHWF	254.1	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	254.1
2020	12	61792	Middleton Solar	IPP	Middleton Solar	SC	62281		59	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
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	13781	Northern States Power Co - Minnesota	IPP	Blazing Star 2 Wind Farm	MN	61650	BLZS2	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2020	12	63294	Nutmeg Solar LLC	IPP	Nutmeg Solar	CT	63592	NUTMG	19.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.6
2020	12	14232	Otter Tail Power Co	Electric Utility	Astoria Station	SD	61144		1	245.5 Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	349.0
2020	12	63279	Outlaw Wind Project LLC	IPP	Outlaw Wind Project LLC	MO	63574	GEN1	298.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	298.6
2020	12	63301	Paynesville CSG1 LLC	IPP	Paynesville CSG1, LLC	MN	63596	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	61793	Pee Dee Solar I	IPP	Pee Dee Solar I	SC	62282		60	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	12	61794	Pee Dee Solar II	IPP	Pee Dee Solar II	SC	62283		61	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	12	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
2020	12	62689	Piney Creek, LLC	IPP	Piney Creek Solar	VA	62768	PCSL	80.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	80.0
2020	12	63302	Plato CSG1 LLC	IPP	Plato CSG1, LLC	MN	63597	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62873	Plot Hound Solar, LLC	IPP	Plot Hound Solar	NC	63015	1088	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	12	62633	Plum Creek Wind, LLC	IPP	Plum Creek Wind Project (NE)	NE	62711	PLUM	230.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	230.0
2020	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	61795	Power Solar	IPP	Power Solar	SC	62284		62	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.0
2020	12	61804	Pruger Solar I	IPP	Pruger Solar I	SC	62292		63	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	12	61805	Pruger Solar II	IPP	Pruger Solar II	SC	62293		64	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	12	61806	Pruger Solar III	IPP	Pruger Solar III	SC	62294		65	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	12	61807	Quest Solar	IPP	Quest Solar	SC	62299		66	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
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	56215	RWE Renewables Americas LLC	IPP	Boiling Springs Wind Farm	OK	62871	BGSPS	148.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	148.4
2020	12	56215	RWE Renewables Americas LLC	IPP	West Raymond Wind Farm LLC	TX	62855	WRAYM	239.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	239.8
2020	12	63141	Rancho Seco Solar II, LLC	IPP	Rancho Seco Solar II, LLC	CA	63387	RSS2	160.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	160.0
2020	12	62778	Rattlesnake Flat, LLC	IPP	Rattlesnake	WA	62936	RAT	144.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	144.0
2020	12	62871	Ray Wilson Solar, LLC	IPP	Ray Wilson Solar	NC	63017		1090	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2020	12	61727	Reloj del Sol Wind Farm LLC	IPP	Reloj del Sol Wind Farm	TX	62207	RELOJ	209.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	209.4
2020	12	61590	Richmond Spider Solar LLC	IPP	Richmond Spider Solar	VA	62011	RMDSS	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2020	12	61808	Rollins Solar	IPP	Rollins Solar	SC	62295		67	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	63.0
2020	12	62781	Rosewater Wind Farm LLC	IPP	Rosewater Wind Farm	IN	62891	ROSEW	102.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	102.0
2020	12	61809	Ross Solar	IPP	Ross Solar	SC	62296		68	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2020	12	62743	RoxWind LLC	IPP	RoxWind	ME	62857	WIND1	15.3	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	15.3
2020	12	61810	Rutledge Solar	IPP	Rutledge Solar	SC	62297		69	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	12	61624	SR Snipesville	IPP	Snipesville	GA	62165	SNIPE	61.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	61.0
2020	12	63303	Sacred Heart CSG1 LLC	IPP	Sacred Heart CSG1, LLC	MN	63598	SC	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	61828	Scarlet Solar	IPP	Scarlet Solar	SC	62307		71	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	12	63366	Schueler Community Solar LLC	IPP	Schueler Community Solar	MN	63658	TC3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	63119	Scotch Bonnet Solar, LLC	IPP	Scotch Bonnet Solar, LLC	NC	63345	PGR07	4.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.5
2020	12	61830	Shining Sun Solar	IPP	Shining Sun Solar	SC	62309		73	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2020	12	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2020	12	61831	Shorthorn Solar	IPP	Shorthorn Solar	SC	62310		74	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.5
2020	12	63365	Siems Community Solar LLC	IPP	Siems Solar Project	MN	63657	TC3	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2020	12	62146	Sigurd Solar LLC	IPP	Sigurd Solar LLC	UT	62666	SGSOL	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2020	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SKC	250.0	Onshore Wind Turbine	WND	WT	(OT) Other	250.0
2020	12	61832	Snoopy Solar	IPP	Snoopy Solar	SC	62311		75	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
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	61833	Southard Solar	IPP	Southard Solar	SC	62312		76	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.0
2020	12	17609	Southern California Edison Co	Electric Utility	Cadillac Battery Energy Storage Facility	CA	63326	CAD1	3.5	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	3.5
2020	12	17609	Southern California Edison Co	Electric Utility	DESI-1 Battery Energy Storage Facility	CA	60699	DESI1	2.4	Batteries	MWH			

**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	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	(L) Regulatory approvals pending. Not under construction	10.0
2020	12	61868	WSW Solar	IPP	WSW Solar	SC	62350	86	10.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.8
2020	12	63129	Wapello Solar LLC	IPP	Wapello Solar LLC	IA	63378	WAPLO	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2020	12	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
2020	12	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
2020	12	61866	Weaver Solar	IPP	Weaver Solar	SC	62347	90	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2020	12	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	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	62208	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
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	(L) Regulatory approvals pending. Not under construction	180.1
2020	12	20860	Wisconsin Public Service Corp	Electric Utility	Two Creeks Solar	WI	63105	1	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2020	12	61869	Wysong Solar	IPP	Wysong Solar	SC	62351	92	2.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.3
2020	12	61871	York Solar	IPP	York Solar	SC	62354	94	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2021	1	62160	AES ES Alamitos, LLC	IPP	AES ES ALAMITOS, LLC	CA	61204	ALMTS	100.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	100.0
2021	1	59315	Bradley Farm LLC	IPP	Bradley Farm (Dudley)	NC	62593	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2021	1	61978	Convergent Energy and Power LP	IPP	Orange County Energy Storage 2	CA	62497	OCE52	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	OCE53	6.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	6.0
2021	1	64555	Duke Energy Florida, LLC	Electric Utility	Santa Fe Solar Power Plant	FL	63517	PV1	42.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2021	1	64555	Duke Energy Florida, LLC	Electric Utility	Twin Rivers Solar Power Plant	FL	63518	PV1	42.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2021	1	60195	Groton Station Fuel Cell, LLC	IPP	Naval Sub Base New London Fuel Cell	CT	61743	MMH3	3.7	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	3.7
2021	1	62763	Hecate Grid, LLC	IPP	Hecate Energy Johanna Facility	CA	62889	HEGJF	20.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	20.0
2021	1	9234	Indiana Municipal Power Agency	Electric Utility	Columbia City Solar Park	IN	62769	SCOLU	4.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.3
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN7	9.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.0
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN8	9.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.0
2021	1	12436	Michigan State University	Commercial	T B Simon Power Plant	MI	10328	GEN9	9.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	9.0
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-1	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-2	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-3	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-4	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-5	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63082	ProEnergy Services	IPP	HO Clarke Generating	TX	63335	CTG-6	45.5	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	60.5
2021	1	63210	Saint Solar LLC	IPP	Saint Solar	AZ	63476	SAINT	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	1	60897	Salinas Valley Solid Waste Authority	IPP	Crazy Horse Solar Project	CA	61285	PV1	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2021	1	63257	Solar Carver 1, LLC	IPP	Solar Carver 1	MA	63541	BCRV1	2.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.0
2021	1	63257	Solar Carver 1, LLC	IPP	Solar Carver 1	MA	63541	SCRV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	1	63243	Solar Carver 3, LLC	IPP	Solar Carver 3	MA	63506	BCRV3	1.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	1.0
2021	1	63243	Solar Carver 3, LLC	IPP	Solar Carver 3	MA	63506	SCRV3	1.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.0
2021	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	1,105.0
2021	1	18454	Tampa Electric Co	Electric Utility	Durrance	FL	63495	1	60.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	60.0
2021	1	19876	Virginia Electric & Power Co	Electric Utility	Coastal Virginia Offshore Wind (CVOW)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	12.0
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	61060	Cypress Creek Renewables	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2021	2	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
2021	2	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntr Utilities/Cogen Plt	MA	54907	GT200	17.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	21.7
2021	2	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntr Utilities/Cogen Plt	MA	54907	GT300	17.7	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	21.7
2021	2	60217	San Bernardino Valley Mun. Water Dist.	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	1.0
2021	3	14328	Pacific Gas & Electric Co.	Electric Utility	Elkhorn Battery Energy Storage System	CA	62564	ELKHO	182.5	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	182.5
2021	3	62646	Painter Energy Storage, LLC	IPP	Painter Energy Storage	CA	62729	PAIN1	10.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	10.0
2021	3	60229	Quail Holdings, LLC	IPP	Quail Holdings	NC	60434	PV1	25.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	25.0
2021	3	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	

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	4	60952	Mt. Jackson Solar LLC	IPP	Mt. Jackson Solar	VA	61318	SOLAR	15.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.7
2021	4	56545	Pattern Operators LP	IPP	G.S.E. One LLC	TX	62505	1	82.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	83.0
2021	4	63275	Samoset Solar, LLC	IPP	Samoset Solar	ME	63551	PGR21	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2021	4	62152	Skipjack Solar Center, LLC	IPP	Skipjack Solar Center	VA	62675	SKJPJ	175.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	175.0
2021	4	62812	Syncharpha Tewksbury Hybrid	IPP	Syncharpha Tewksbury Hybrid	MA	62968	SYTKB	2.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	2.0
2021	4	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	CTG	11.6	Other Waste Biomass	OBG	CT	(U) Under construction, less than or equal to 50 percent complete	12.0
2021	4	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	STG	7.4	Other Waste Biomass	OBG	CA	(U) Under construction, less than or equal to 50 percent complete	9.0
2021	5	63012	2W Permian Solar, LLC	IPP	2W Permian Solar Project	TX	63255	2WPBA	40.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	40.0
2021	5	63012	2W Permian Solar, LLC	IPP	2W Permian Solar Project	TX	63255	2WPSO	420.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	420.0
2021	5	61608	Agilon Energy Holdings II, LLC	IPP	Victoria Port Power II LLC	TX	61966	VP2-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2021	5	61608	Agilon Energy Holdings II, LLC	IPP	Victoria Port Power II LLC	TX	61966	VP2-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2021	5	62049	Aquamarine Westside LLC	IPP	Aquamarine	CA	62547	AQUAM	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	250.0
2021	5	56769	Consolidated Edison Development Inc.	IPP	CED Crane Solar	TX	63519	CRN1	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM45	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM46	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM47	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM48	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62091	Derby Fuel Cell LLC	IPP	Derby Fuel Cell	CT	62588	MM49	2.8	Other Natural Gas	NG	FC	(P) Planned for installation, but regulatory approvals not initiated	2.8
2021	5	62898	Diflex Power, LLC	IPP	John Paul Jones	TX	63095	JPJDX	18.7	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	18.7
2021	5	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT2	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2021	5	61942	Griffin Trail Wind, LLC	IPP	Griffin Trail Wind	TX	62411	GTWND	225.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	225.6
2021	5	62807	Hawtree Creek Farm Solar, LLC	IPP	Hawtree Solar	NC	62951	HAWT1	65.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	65.0
2021	5	62064	Hill Top Energy Center, LLC	IPP	Hill Top Energy Center, LLC	PA	62565	GEN1	619.1	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	664.7
2021	5	60379	Howardtown Farm, LLC	IPP	Howardtown Farm	NC	60630	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2021	5	63100	Juno, LLC	IPP	Juno Solar Project	TX	63328	IPJNO	300.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	300.0
2021	5	55983	Luminant Generation Company LLC	IPP	Alira	TX	63193	UNIT1	222.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	222.8
2021	5	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2021	6	63118	224WB 8me LLC	IPP	Galloway 2 Solar Farm	TX	63343	GS2SF	110.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	110.0
2021	6	61523	225DD 8me LLC	IPP	Galloway 1 Solar Farm	TX	61920	GSM01	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
2021	6	61525	231RC 8me LLC	IPP	Norton Solar Farm	TX	61967	NSM01	125.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	125.0
2021	6	60667	Aksamit Energy Development	IPP	Monument Road	NE	61033	MR001	66.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	66.0
2021	6	61118	Ameresco, Inc - Candlewood	IPP	Candlewood Solar	CT	61517	CANDL	25.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	25.0
2021	6	61825	Antelope Expansion 1B, LLC	IPP	Antelope Expansion 1B	CA	62320	ANE1B	17.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	17.0
2021	6	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS1	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2021	6	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS2	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2021	6	62746	Don Lee BESS 1 LLC	IPP	Don Lee BESS 1 LLC	CA	62872	DONL1	6.5	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	6.5
2021	6	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCA1	261.2	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT1	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT2	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2021	6	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2021	6	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2021	6	58597	Environsmission, Inc	IPP	La Paz Solar Tower	AZ	58652	1	200.0	Solar Thermal without Energy Storage	SUN	OT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1A	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1B	250.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2021	6	55937	Entergy Texas Inc.	Electric Utility	Montgomery County	TX	60925	1C	500.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	500.0
2021	6	60688	FGE Goodnight, LLC	IPP	Goodnight	TX	59246	GOOD1	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2021	6	6909	Gainesville Regional Utilities	Electric Utility	John R Kelly	FL	664	8.2	40.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	50.0
2021	6	7140	Georgia Power Co	Electric Utility	Fort Valley State University Solar	GA	63062	1	10.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.8
2021	6	61122	Great River Hydro, LLC	IPP	S C Moore	NH	2351	GEN5	4.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	4.6
2021	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	232.0
2021	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2021	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN1	162.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	177.0
2021	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN2	162.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	177.0
2021	6	63092	IP Titan, LLC	IPP	Titan Solar Project	TX	63320	IPTTN	260.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	260.0
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Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2021	7	58416	California State University, Northridge	Commercial	CSU Northridge Plant	CA	58422	G6PV	0.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	0.8
2021	7	56615	First Solar Project Development	IPP	Sun Stream 2	AZ	63440	GEN01	150.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	150.0
2021	7	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	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	360.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	360.0
2021	8	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	8	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	8	56769	Consolidated Edison Development Inc.	IPP	Copper Mountain Solar 5, LLC	NV	63504	CM5-1	250.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	252.0
2021	8	61684	Diablo Energy Storage, LLC	IPP	Diablo Energy Storage	CA	62175	DIBLO	250.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	250.0
2021	8	62936	TREX US Red Holly LLC	IPP	TREX US Red Holly	TX	63202	701-S	50.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	50.0
2021	9	63253	Assembly Solar II LLC	IPP	Assembly Solar II LLC	MI	63538	AS2	110.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	110.0
2021	9	61818	CC Polymers LLC	Industrial	M&G Resins USA	TX	60642	1	11.7	All Other	WHD	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	WHD	OT	(P) Planned for installation, but regulatory approvals not initiated	14.3
2021	9	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-3	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	62050	Castleman Power Development LLC	IPP	SJRR Power LLC	TX	62548	SJ-4	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2021	9	63109	Hales Mills Solar, LLC	IPP	Hales Mills Solar, LLC	NY	63339	6609	3.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	9	19558	Homer Electric Assn Inc	Electric Utility	Soldotna	AK	57206	3	46.5	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	93.0
2021	9	63101	iP Aragorn, LLC	IPP	Aragorn Solar Project	TX	63329	IPAGN	180.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	180.0
2021	9	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	62700	SunEast Clay Solar LLC	IPP	SunEast Clay Solar Project	NY	62819	O669	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	50.0
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	Westminster NC	NC	63567	WSMTR	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2021	10	7140	Georgia Power Co	Electric Utility	Georgia College & State University Solar	GA	63282	1	3.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	3.5
2021	10	60720	Martinsdale Wind Farm LLC	IPP	Martinsdale Wind Farm	MT	61108	MTD	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	10	62893	Miliani I Solar LLC	IPP	Miliani 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	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	6452	Florida Power & Light Co	Electric Utility	Manatee Solar Energy Center	FL	60014	BMS	409.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	409.0
2021	11	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2021	11	63289	Key Capture Energy	IPP	NY2 Battery	NY	63584	NY2	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2021	11	60569	Lincoln Land Wind, LLC	IPP	Lincoln Land Wind	IL	58925	SAN1	30.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	30.0
2021	11	61762	Long Ridge Energy Generation LLC	IPP	Hannibal Port Power Project	OH	61322	HPPP1	485.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	521.9
2021	11	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	CT2	5.2	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	6.1
2021	11	61331	Popular Camp Wind Farm LLC	IPP	Poplar Camp Wind Farm	VA	61111	PC1	72.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	72.0
2021	11	56215	RWE Renewables Americas LLC	IPP	Hickory Park Solar	GA	63522	HPBAT	40.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	40.0
2021	11	56215	RWE Renewables Americas LLC	IPP	Hickory Park Solar	GA	63522	HPRK	195.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	195.5
2021	11	60387	Skylar Resources, LP	IPP	Townsite Solar Project	NV	60654	GEN02	90.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	90.0
2021	11	61516	Stratford Solar Center, LLC	IPP	Stratford Solar Center, LLC	VA	61908	STRAT	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2021	11	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT5	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	392.0
2021	11	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	GT6	360.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	392.0
2021	11	18454	Tampa Electric Co	Electric Utility	Mountain View Solar (FL)	FL	61664	GEN1	52.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	52.5
2021	12	61477	325MK 8me LLC	IPP	Eagle Shadow Mountain Solar Farm	NV	61852	ESMSF	300.0	Solar Photovoltaic	SUN	PV	(P	

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	58508	Carolina Solar Energy LLC	IPP	Sellers Farm Solar	NC	60439	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	56769	Consolidated Edison Development Inc.	IPP	Battle Mountain Solar Project	NV	61098	BMSP	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2021	12	62911	Drew Solar LLC	IPP	Drew Solar LLC	CA	63127	DS	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2021	12	54802	Dynegy Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	BAT1	300.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	300.0
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	Gifton PV2	NC	63568	GRFT2	56.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	56.0
2021	12	59380	Enel Green Power NA, Inc.	IPP	Pomerado Energy Storage, LLC	CA	61390	PMRDO	6.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	6.0
2021	12	56615	First Solar Project Development	IPP	White Wing Solar	AZ	60572	GEN01	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2021	12	62130	Foundation CA Fund X Manager LLC	IPP	Foundation Dole Fresh Vegetables	CA	62654	WTG1	2.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.8
2021	12	62130	Foundation CA Fund X Manager LLC	IPP	Foundation Dole Fresh Vegetables	CA	62654	WTG2	2.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.8
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS2	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS3	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	61944	GSRP	IPP	Dry Bridge Solar (Brown University)	RI	62771	DBS4	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2021	12	62759	Geronimo Energy	IPP	Elk Creek Solar	MN	63250	ELKCR	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2021	12	62759	Geronimo Energy	IPP	Prairie Wolf Solar LLC	IL	62893	PWOLF	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2021	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT1	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2021	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT3	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2021	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT4	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2021	12	61166	Green Power Energy LLC	IPP	Cody Road Wind Farm	NY	61592	WT5	2.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	2.4
2021	12	62704	Grizzly Wind LLC	IPP	Grizzly Wind LLC	MT	62802	GW	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2021	12	62153	Hecate Energy Highland LLC	IPP	Hecate Energy Highland LLC	OH	62670	HIGHL	300.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	300.0
2021	12	62765	High Bridge Wind, LLC	IPP	High Bridge Wind Project	NY	62894	WT	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2021	12	62983	iAthos, LLC	IPP	iAthos Solar Project	CA	63300	IPAT1	250.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	250.0
2021	12	61853	Innogy Renewables US LLC	IPP	Buckeye Wind Farm	OH	58776	1	99.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	99.0
2021	12	49893	Invenenergy 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	Invenenergy 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	Invenenergy 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	Invenenergy Services LLC	IPP	Yum Yum Solar LLC	TN	63026	GEN1	147.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	147.0
2021	12	62912	Iris Solar LLC	IPP	Iris Solar LLC	LA	63128	ISLLC	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT1	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT2	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.4	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.4
2021	12	63107	Lansing Renewables, LLC	IPP	Lansing Renewables, LLC	NY	63337	6004	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	61421	LeGore Bridge Solar Center, LLC	IPP	LeGore Bridge Solar Center	MD	61796	LGBC	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	1	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	2	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	3	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	4	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	62664	Lock 14 Hydro Partners, LLC	IPP	Heidelberg Hydroelectric Project	KY	62749	5	0.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	0.5
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	2.6
2021	12	63231	Maverick Wind Project, LLC	IPP	Maverick Wind Project, LLC	OK	63494	GEN1	288.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2021	12	62675	Meherrin Solar LLC	IPP	Meherrin Solar	VA	62758	MEHER	59.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	59.6
2021	12	61459	Minco Wind V, LLC	IPP	Minco Wind V, LLC	OK	61837	MV	220.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	220.0
2021	12	60221	North Slope LLC	IPP	North Slope, LLC	NY	60420	NSPV	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2021	12	63216	North Valley	IPP	North Valley	NV	63491	OEC1	25.0	Geothermal	GEO	BT	(L) Regulatory approvals pending. Not under construction	37.0
2021	12	63110	Owlville Creek Solar 2, LLC	IPP	Owlville Creek Solar 2, LLC	NY	63340	6609	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	63111	Owlville Creek Solar, LLC	IPP	Owlville Creek Solar, LLC	NY	63341	6608	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2021	12	14328	Pacific Gas & Electric Co.	Electric Utility	Llagas Energy Storage	CA	63529	LLAGS	20.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	20.0
2021	12	56545	Pattern Operators LP	IPP	Old Jackson Solar LLC	TX	62501	1	127.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	128.0</

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	1	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	GEN1	59.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	70.5
2022	1	60971	NYC ENERGY LLC	IPP	NISA Electric Generation Project	NY	61331	STG1	20.2	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	22.0
2022	1	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECNY	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2022	1	60473	Renovo Energy Center	IPP	Renovo Energy Center	PA	60786	RECPJ	480.0	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	513.0
2022	2	55983	Luminant Generation Company LLC	IPP	Jayhawk	TX	59806	SOLAR	101.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	101.0
2022	2	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC	374.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	501.0
2022	2	60836	NTE Connecticut, LLC	IPP	Killingly Energy Center	CT	61239	KEC2	257.6	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	312.8
2022	2	6775	Village of Freeport - (NY)	Electric Utility	Plant No 1 Freeport	NY	2678	ENG13	3.0	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	3.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Palestine Power Peaking Facility	TX	62684	PP-4	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-1	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-2	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-3	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	62050	Castleman Power Development LLC	IPP	Sealy Power Peaking Facility	TX	62685	SP-4	50.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2022	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectric	AL	61749	GEN1	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2022	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectric	AL	61749	GEN2	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2022	3	60718	Energy Resources USA, Inc.	IPP	Tom Bevill Lock and Dam Hydroelectric	AL	61749	GEN3	4.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	4.0
2022	3	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT1	370.6	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.6
2022	3	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	CT2	370.6	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	370.6
2022	3	61395	Indeck Niles, LLC	IPP	Indeck Niles Energy Center	MI	55460	ST1	368.1	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	368.1
2022	3	59137	Palmer Renewable Energy	IPP	Palmer Renewable Energy	MA	59336	PRE	42.0	Wood/Wood Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	42.0
2022	4	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB001	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2022	4	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB002	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2022	4	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	11	359.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	394.4
2022	4	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	12	359.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	394.4
2022	4	5109	DTE Electric Company	Electric Utility	Blue Water Energy Center	MI	62192	1S	428.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	478.6
2022	4	62983	iP Athos, 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	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	62935	TREX US Green Holly LLC	IPP	TREX US Green Holly	TX	63201	705	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2022	4	62935	TREX US Green Holly LLC	IPP	TREX US Green Holly	TX	63201	705-S	5.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	5.0
2022	5	15399	Avangrid Renewables LLC	IPP	Camino Solar	CA	63508	CS1	44.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	44.0
2022	6	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	62920	Cabin Point Solar Center LLC	IPP	Cabin Point Solar Center	VA	63134	CBNPT	75.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	75.0
2022	6	60395	California Ethanol Power, LLC	Industrial	CE&P Imperial Valley 1	CA	60670	1	50.0	All Other	OTH	CC	(T) Regulatory approvals received. Not under construction	50.0
2022	6	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	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	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	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	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	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	7	49893	Invenergy Services LLC	IPP	Delilah Solar Energy LLC	TX	63194	GEN						

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2022	12	62008	Hale Kuawehi Solar LLC	IPP	Hale Kuawehi Solar Hybrid	HI	62529	HKSOL	30.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	30.0
2022	12	61638	Harrison Power LLC	IPP	Cadiz Power Plant	OH	62153	GEN 1	550.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	660.0
2022	12	61638	Harrison Power LLC	IPP	Cadiz Power Plant	OH	62153	GEN 2	550.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	660.0
2022	12	49893	Inverenergy 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	Inverenergy Services LLC	IPP	Tip Top Solar Energy Center LLC	NM	63028	GEN1	220.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	220.0
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.4	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	3.4
2022	12	61596	Lincoln Land Energy Center LLC	IPP	Lincoln Land Energy Center	IL	62022	GEN1	520.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	638.4
2022	12	61596	Lincoln Land Energy Center LLC	IPP	Lincoln Land Energy Center	IL	62022	GEN2	520.0	Natural Gas Fired Combined Cycle	NG	CS	(P) Planned for installation, but regulatory approvals not initiated	638.4
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	1	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	2	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	3	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	4	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	62663	Lock 13 Hydro Partners	IPP	Evelyn Hydroelectric Project	KY	62748	5	0.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.6
2022	12	61422	Mason Dixon Solar Center, LLC	IPP	Mason Dixon Solar Center	MD	61797	PV	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	12	63238	OE_ALC	IPP	AL Solar C LLC	AL	63513	OEALC	80.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	80.0
2022	12	62036	Paeahu Solar LLC	IPP	Paeahu Solar Hybrid	HI	62534	PHBA	15.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	15.0
2022	12	62036	Paeahu Solar LLC	IPP	Paeahu Solar Hybrid	HI	62534	PHSOL	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2022	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2022	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 2 LLC	CA	61446	PV2	45.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	45.0
2022	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 3 LLC	CA	61447	PV3	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 4 LLC	CA	61448	PV4	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	12	61069	RE Gaskell West LLC	IPP	RE Gaskell West 5 LLC	CA	61449	PV5	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2022	12	56215	RWE Renewables Americas LLC	IPP	Pinckard Solar	AL	62787	PCKND	79.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	85.1
2022	12	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	CT1	349.8	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	384.2
2022	12	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	CT2	349.8	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	384.2
2022	12	21554	Seminole Electric Cooperative Inc	Electric Utility	Seminole (FL)	FL	136	ST	396.6	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	414.8
2022	12	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2023	1	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	BBST1	335.0	Natural Gas Steam Turbine	NG	ST	(P) Planned for installation, but regulatory approvals not initiated	445.5
2023	2	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCA1	205.4	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	207.4
2023	2	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCT1	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2023	3	59365	Capital Power Corporation	IPP	Garrison Butte Wind, LLC	ND	60066	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2023	3	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	480.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	480.0
2023	3	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	RWES1	129.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	129.0
2023	3	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	RWES2	98.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	98.0
2023	3	61130	Helix Ravenswood, LLC	IPP	Ravenswood	NY	2500	RWES3	89.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	89.0
2023	4	17568	Cooperative Energy	Electric Utility	R D Morrow	MS	6061	MOR1	514.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	550.0
2023	5	62733	Cranberry Point Energy Storage LLC	IPP	Cranberry Point Energy Storage	MA	62844	NA	150.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	150.0
2023	5	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	6	227.8	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	227.8
2023	5	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	249.9	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	265.2
2023	5	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2023	5	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	226.7	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	238.9
2023	5	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	4	88.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	88.0
2023	5	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	LEC1	385.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	454.5
2023	5	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	LEC2	245.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	272.2
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS3	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2023	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	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													

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	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&D 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&D Hydroelectric Project	PA	62404	NA2	4.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.0
2023	11	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA2	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	11	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA3	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	11	61906	Rye Development	IPP	Montgomery L&D Hydroelectric Project	PA	62400	NA4	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	9.5
2023	11	61906	Rye Development	IPP	Morgantown L&D Hydroelectric Project	WV	62387	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Opekiska L&D Hydroelectric Project	WV	62386	NA2	2.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	3.0
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA2	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA3	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA4	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA5	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Overton Hydroelectric Project	LA	62391	NA6	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	8.1
2023	11	61906	Rye Development	IPP	Philo L&D Hydroelectric Project	OH	62427	NA2	1.2	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.5
2023	11	61906	Rye Development	IPP	Point Marion L&D Hydroelectric Project	PA	62384	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.5
2023	11	61906	Rye Development	IPP	Rokeby L&D Hydroelectric Project	OH	62426	NA2	1.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.0
2023	11	61906	Rye Development	IPP	Sardis Lake Hydroelectric Project	MS	62425	NA2	5.5	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	7.5
2023	12	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	PVGEN	55.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	55.0
2023	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI01	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2023	12	60349	Juneau Hydropower, Inc	IPP	Sweetheart Lake Hydroelectric Facility	AK	60588	JHI02	6.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	6.6
2023	12	63217	Obsidian Solar Center LLC	IPP	Obsidian Solar Center	OR	63488	OBSLR	400.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	400.0
2023	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2023	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCBAT	200.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	200.0
2023	12	62023	Skeleton Creek Energy Center	IPP	Skeleton Creek Energy Center Hybrid	OK	62494	SCSOL	250.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	250.0
2024	1	61033	Boswell Wind Project I, LLC	IPP	Boswell Wind I	WY	61393	BOSW1	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2024	1	61034	Boswell Wind Project II, LLC	IPP	Boswell Wind II	WY	61394	BOSW2	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2024	1	61035	Boswell Wind Project III, LLC	IPP	Boswell Wind III	WY	61395	BOSW3	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2024	1	61036	Boswell Wind Project IV, LLC	IPP	Boswell Wind IV	WY	61396	BOSW4	80.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	80.0
2024	1	27119	CalWind Resources Inc	IPP	Tehachapi Wind Resource II	CA	54909	PLAN	15.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.5
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS1	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS2	98.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS4	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2024	5	16572	Salt River Project	Electric Utility	Copper Crossing Energy Center	AZ	58413	CCGS5	226.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	241.0
2024	12	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	56844	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-C	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2025	1	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	1	156.0					

**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)
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 approval 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	4	6027	Entergy Nuclear Indian Point 2	IPP	Indian Point 2	NY	2497	2	1,016.1	Nuclear	NUC	ST
2020	4	17897	St Mary's Hospital	Commercial	Saint Marys Hospital Power Plant	MN	54262	6	2.7	Natural Gas Internal Combustion Engine	NG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT1	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT2	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT3	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT4	1.4	Landfill Gas	LFG	IC
2020	5	57175	BC Landfill Energy LLC	IPP	BC Landfill Energy LLC	NJ	57847	UNIT5	1.4	Landfill Gas	LFG	IC
2020	5	2848	California Institute-Technology	Commercial	California Institute of Technology	CA	10262	GEN6	9.0	Natural Gas Fired Combined Cycle	NG	CT
2020	5	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2020	5	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	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/AhlCon Partners, L.P.	IPP	Colver Power Project	PA	10143	COLV	110.0	Conventional Steam Coal	WC	ST
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Knox Lee	TX	3476	2	31.0	Natural Gas Steam Turbine	NG	ST
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Knox Lee	TX	3476	3	25.0	Natural Gas Steam Turbine	NG	ST
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Lieberman	LA	1417	2	26.0	Natural Gas Steam Turbine	NG	ST
2020	5	17698	Southwestern Electric Power Co	Electric Utility	Lone Star	TX	3477	1	50.0	Natural Gas Steam Turbine	NG	ST
2020	6	58620	AEP Generation Resources Inc	IPP	Conesville	OH	2840	4	780.0	Conventional Steam Coal	BIT	ST
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 1	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 2	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 3	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 4	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 5	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 6	0.7	Landfill Gas	LFG	IC
2020	6	61351	APTIM Environmental & Infrastructure	IPP	Keystone Recovery	PA	54934	NO 7	0.7	Landfill Gas	LFG	IC
2020	6	7483	City of Grand Haven - (MI)	Electric Utility	Grand Haven Diesel Plant	MI	1826	1	8.4	Natural Gas Internal Combustion Engine	NG	IC
2020	6	7483	City of Grand Haven - (MI)	Electric Utility	J B Sims	MI	1825	3	69.1	Conventional Steam Coal	BIT	ST
2020	6	14268	City of Owensboro - (KY)	Electric Utility	Elmer Smith	KY	1374	1	137.0	Conventional Steam Coal	BIT	ST
2020	6	14268	City of Owensboro - (KY)	Electric Utility	Elmer Smith	KY	1374	2	262.8	Conventional Steam Coal	BIT	ST
2020	6	59878	Clean Fuel Partners Dane	Electric CHP	Clean Fuel Dane Community Digester	WI	59559	GEN#1	1.0	Other Waste Biomass	OBG	IC
2020	6	59878	Clean Fuel Partners Dane	Electric CHP	Clean Fuel Dane Community Digester	WI	59559	GEN#2	1.0	Other Waste Biomass	OBG	IC
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT2	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT3	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Notch Cliff	MD	1555	GT4	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	4161	Constellation Power Source Gen	IPP	Westport	MD	1560	GT5	115.8	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	6035	Exelon Power	IPP	Fairless Hills	PA	7701	A	30.0	Landfill Gas	LFG	ST
2020	6	6035	Exelon Power	IPP	Fairless Hills	PA	7701	B	30.0	Landfill Gas	LFG	ST
2020	6	6035	Exelon Power	IPP	Pennsbury	PA	7690	1	2.0	Landfill Gas	LFG	GT
2020	6	6035	Exelon Power	IPP	Pennsbury	PA	7690	2	2.0	Landfill Gas	LFG	GT
2020	6	60422	H.A. Wagner LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	RC	ST
2020	6	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	7	13756	Northern Indiana Pub Serv Co	Electric Utility	Bailly	IN	995	10	31.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	7	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	7	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	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	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2020	8	14328	Pacific Gas & Electric Co.	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2020	9	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	9	6455	Duke Energy Florida, LLC	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	9	15474	Public Service Co of Oklahoma	Electric Utility	Oklauunion	TX	127	1	650.0	Conventional Steam Coal	SUB	ST
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

**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	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	10	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	1	78.0	Conventional Steam Coal	BIT	ST
2020	10	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	2	238.0	Conventional Steam Coal	BIT	ST
2020	10	189	PowerSouth Energy Cooperative	Electric Utility	Charles R Lowman	AL	56	3	238.0	Conventional Steam Coal	BIT	ST
2020	11	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1367	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	11	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1391	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	11	20712	Snowbird Corporation	Commercial	Snowbird Power Plant	UT	10215	1392	0.6	Natural Gas Internal Combustion Engine	NG	IC
2020	12	803	Arizona Public Service Co	Electric Utility	Cholla	AZ	113	4	380.0	Conventional Steam Coal	SUB	ST
2020	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	4	56.0	Natural Gas Steam Turbine	NG	ST
2020	12	17833	City Utilities of Springfield - (MO)	Electric Utility	James River Power Station	MO	2161	5	97.0	Natural Gas Steam Turbine	NG	ST
2020	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	1	73.0	Conventional Steam Coal	BIT	ST
2020	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	2	70.5	Conventional Steam Coal	BIT	ST
2020	12	6452	Florida Power & Light Co	Electric Utility	Indiana Cogeneration LP	FL	50976	GEN1	330.0	Conventional Steam Coal	BIT	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	4	64.0	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	5	63.1	Conventional Steam Coal	SUB	ST
2020	12	56155	Lansing Board of Water and Light	Electric Utility	Eckert Station	MI	1831	6	62.8	Conventional Steam Coal	SUB	ST
2020	12	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	7	0.6	Petroleum Liquids	DFO	IC
2020	12	58341	McKinley Paper Co. - Washington Mill	Industrial	McKinley Paper Co. - Washington Mill	WA	58352	G-11	20.0	Wood/Wood Waste Biomass	WDS	ST
2020	12	55269	NextEra Energy Duane Arnold LLC	IPP	Duane Arnold Energy Center	IA	1060	1	601.4	Nuclear	NUC	ST
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	RC	ST
2020	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Escalante	NM	87	1	253.0	Conventional Steam Coal	SUB	ST
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	21.5	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.3	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	45.1	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	33.7	Natural Gas Fired Combustion Turbine	NG	GT
2020	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	27.2	Natural Gas Fired Combustion Turbine	NG	GT
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	15908	GenOn California South, LP	IPP	Elwood	CA	8076	01	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	1	15908	GenOn California South, LP	IPP	Ormond Beach	CA	350	1	741.0	Natural Gas Steam Turbine	NG	ST
2021	1	15908	GenOn California South, LP	IPP	Ormond Beach	CA	350	2	750.0	Natural Gas Steam Turbine	NG	ST
2021	1	14328	Pacific Gas & Electric Co.	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2021	1	61854	Veolia Energy Operating Service	Electric CHP	Spruance Operating Services LLC	VA	54081	GEN1	52.5	Conventional Steam Coal	BIT	ST
2021	1	61854	Veolia Energy Operating Service	Electric CHP	Spruance Operating Services LLC	VA	54081	GEN2	52.5	Conventional Steam Coal	BIT	ST
2021	2	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	CTG1	19.0	Natural Gas Fired Combustion Turbine	NG	GT
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	3A	0.5	Petroleum Liquids	DFO	IC
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	4A	0.5	Petroleum Liquids	DFO	IC
2021	2	12119	McGrath Light & Power Co	Electric Utility	McGrath	AK	6555	6	0.6	Petroleum Liquids	DFO	IC
2021	3	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	1	53.1	Conventional Steam Coal	LIG	ST
2021	4	6028	Entergy Nuclear Indian Point 3	IPP	Indian Point 3	NY	8907	3	1,037.9	Nuclear	NUC	ST
2021	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2021	5	9273	Indianapolis Power & Light Co	Electric Utility	AES Petersburg	IN	994	ST1	222.5	Conventional Steam Coal	BIT	ST
2021	5	9210	International Paper Co-Riegelwood	Industrial	International Paper Riegelwood Mill	NC	54656	NO 1	7.8	Wood/Wood Waste Biomass	BLQ	ST
2021	5	9210	International Paper Co-Riegelwood	Industrial	International Paper Riegelwood Mill	NC	54656	NO3	44.5	Wood/Wood Waste Biomass	BLQ	ST
2021	5	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	3	103.1	Natural Gas Steam Turbine	NG	ST
2021	5	19876	Virginia Electric & Power Co	Electric Utility	Possum Point	VA	3804	5	786.0	Petroleum Liquids	RFO	ST
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy Eastlake	OH	2837	6	24.0	Petroleum Liquids	DFO	GT
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	A1	3.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B1	3.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B2	3.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B3	2.0	Petroleum Liquids	DFO	IC
2021	6	6526	FirstEnergy Generation Corp	IPP	FirstEnergy W H Sammis	OH	2866	B4	2.0	Petroleum Liquids	DFO	IC
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2021	6	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	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	1	16.6	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Fitchburg	WI	3991	2	15.8	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Nine Springs	WI	9674	GT1	12.5	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	1	11.4	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	11479	Madison Gas & Electric Co	Electric Utility	Sycamore (WI)	WI	3993	2	16.9	Natural Gas Fired Combustion Turbine	NG	GT
2021	12	60558	Rock County Energy Center, LLC	IPP	Minwind 3-9	MN	56123	1	11.6	Onshore Wind Turbine	WND	WT
2022	1	59409	Eco Services Corp.	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	3	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	1	29.5	Conventional Steam Coal	LIG	ST
2022	3	12199	Montana-Dakota Utilities Co	Electric Utility	R M Heskett	ND	2790	2	74.8	Conventional Steam Coal	LIG	ST
2022	3	60538	Vitro Architectural Glass	Industrial	Works 4	TX	54364	L1G	2.0	Petroleum Liquids	DFO	IC
2022	4	6452	Florida Power & Light Co	Electric Utility	Manatee	FL	6042	1	809.0	Petroleum Liquids	RFO	ST
2022	4	6452	Florida Power & Light Co	Electric Utility	Manatee	FL	6042	2	809.0	Petroleum Liquids	RFO	ST
2022	5	5109	DTE Electric Company	Electric Utility	River Rouge	MI	1740	3	272.0	Conventional Steam Coal	SUB	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	2	154.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	3	160.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	6	311.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	St Clair	MI	1743	7	440.0	Conventional Steam Coal	RC	ST
2022	5	5109	DTE Electric Company	Electric Utility	Trenton Channel	MI	1745	9	495.0	Conventional Steam Coal	SUB	ST
2022	5	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	4	0.8	Petroleum Liquids	DFO	IC
2022	5	61013	Northern Westchester Hospital	Commercial	Northern Westchester Hospital	NY	61378	5	0.8	Petroleum Liquids	DFO	IC
2022	6	23279	Allegheny Energy Supply Co LLC	IPP	FirstEnergy Pleasants Power Station	WV	6004	1	644.0	Conventional Steam Coal	RC	ST
2022	6	23279	Allegheny Energy Supply Co LLC	IPP	FirstEnergy Pleasants Power Station	WV	6004	2	644.0	Conventional Steam Coal	RC	ST
2022	6	11241	Entergy Louisiana LLC	Electric Utility	Sterlington	LA	1404	7A	47.0	Natural Gas Fired Combined Cycle	NG	CT
2022	6	56192	Entergy Nuclear Palisades LLC	IPP	Palisades	MI	1715	1	771.6	Nuclear	NUC	ST
2022	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	1	212.0	Natural Gas Steam Turbine	NG	ST
2022	6	14584	Pawtucket Power Associates LP	IPP	Pawtucket Power Associates	RI	54056	GEN1	33.0	Natural Gas Fired Combined Cycle	NG	CT
2022	6	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	1	340.0	Conventional Steam Coal	RC	ST
2022	6	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	4	507.0	Conventional Steam Coal	RC	ST
2022	8	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	Natural Gas Steam Turbine	NG	ST
2022	8	60791	Monroe County (NY)	Commercial	Iola Powerhouse & Cogeneration Facility	NY	62424	1	1.4	Natural Gas Internal Combustion Engine	NG	IC
2022	8	60791	Monroe County (NY)	Commercial	Iola Powerhouse & Cogeneration Facility	NY	62424	2	1.4	Natural Gas Internal Combustion Engine	NG	IC
2022	8	60791	Monroe County (NY)	Commercial	Iola Powerhouse & Cogeneration Facility	NY	62424	3	1.4	Natural Gas Internal Combustion Engine	NG	IC
2022	9	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	2	90.0	Natural Gas Steam Turbine	NG	ST
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	1	565.7	Conventional Steam Coal	RC	ST
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	2	580.5	Conventional Steam Coal	RC	ST
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	4	3.0	Petroleum Liquids	DFO	IC
2022	10	7570	Great River Energy	Electric Utility	Coal Creek	ND	6030	5	3.0	Petroleum Liquids	DFO	IC
2022	12	15470	Duke Energy Indiana, LLC	Electric Utility	R Gallagher	IN	1008	2	140.0	Conventional Steam Coal	BIT	ST
2022	12	15470	Duke Energy Indiana, LLC	Electric Utility	R Gallagher	IN	1008	4	140.0	Conventional Steam Coal	BIT	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	76.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	2	76.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2022	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2022	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	1	325.0	Conventional Steam Coal	SUB	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	1	71.0	Natural Gas Steam Turbine	NG	ST
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2022	12	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
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	1	19876	Virginia Electric & Power Co	Electric Utility	Chesterfield	VA	3797	5	336.0	Conventional Steam Coal	BIT	ST
2023	1	19876	Virginia Electric & Power Co	Electric Utility	Chesterfield	VA	3797	6	670.0	Conventional Steam Coal	BIT	ST
2023	1	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	3	790.0	Petroleum Liquids	RFO	ST
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2023	3	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	130.0	Conventional Steam Coal	SUB	ST
2023	5	4254	Consumers Energy Co	Electric Utility	Dan E Karn	MI	1702	2B	130.0	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	Clearay Flood Hybrid	MA	1682	8	26.0	Petroleum Liquids	RFO	ST
2023	6	12685	Entergy Mississippi LLC	Electric Utility	Baxter Wilson	MS	2050	1	494.3	Natural Gas Steam Turbine	NG	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	14	431.0	Conventional Steam Coal	SUB	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	15	472.0	Conventional Steam Coal	SUB	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	17	361.0	Conventional Steam Coal	BIT	ST
2023	6	13756	Northern Indiana Pub Serv Co	Electric Utility	R M Schahfer	IN	6085	18	361.0	Conventional Steam Coal	BIT	ST
2023	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2023	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2023	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	1	6.2	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	2	6.4	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	3	6.9	Conventional Hydroelectric	WAT	HY
2023	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2023	12	17828	City of Springfield - (IL)	Electric Utility	Dallman	IL	963	3	177.7	Conventional Steam Coal	BIT	ST
2023	12	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	64.8	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	90.8	Natural Gas Steam Turbine	NG	ST
2023	12	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	1	245.0	Conventional Steam Coal	BIT	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	A B Brown	IN	6137	2	245.0	Conventional Steam Coal	BIT	ST
2023	12	17633	Southern Indiana Gas & Elec Co	Electric Utility	F B Culley	IN	1012	2	90.0	Conventional Steam Coal	BIT	ST
2023	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
2023	12	18642	Tennessee Valley Authority	Electric Utility	Bull Run	TN	3396	1	870.0	Conventional Steam Coal	BIT	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	1	4.7	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	2	4.8	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	3	11.0	Petroleum Liquids	RFO	ST
2024	1	11843	Maui Electric Co Ltd	Electric Utility	Kahului	HI	6056	4	11.9	Petroleum Liquids	RFO	ST
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	73	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	74	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	81	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	82	50.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	83	64.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	1	54888	NRG Texas Power LLC	IPP	Greens Bayou	TX	3464	84	54.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	6	11241	Entergy Louisiana LLC	Electric Utility	Waterford 1 & 2	LA	8056	2	417.3	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN3	18.0	Natural Gas Steam Turbine	NG	ST
2024	11	14328	Pacific Gas & Electric Co.	Electric Utility	Diablo Canyon	CA	6099	1	1,122.0	Nuclear	NUC	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	1	217.0	Natural Gas Steam Turbine	NG	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	2	230.0	Natural Gas Steam Turbine	NG	ST
2024	12	16604	City of San Antonio - (TX)	Electric Utility	V H Braunig	TX	3612	3	412.0	Natural Gas Steam Turbine	NG	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	1	162.0	Conventional Steam Coal	BIT	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	2	162.0	Conventional Steam Coal	BIT	ST
2024	12	5416	Duke Energy Carolinas, LLC	Electric Utility	G G Allen	NC	2718	3	258.0	Conventional Steam Coal	BIT	ST
2024	12	56211	Evergy Missouri West	Electric Utility	Kansas City International	MO	6144	1	16.7	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	56211	Evergy Missouri West	Electric Utility	Kansas City International	MO	6144	2	16.9	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	56211	Evergy Missouri West	Electric Utility	Lake Road (MO)	MO	2098	4	97.1	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	111.8	Natural Gas Steam Turbine	NG	ST
2024	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	156.3	Natural Gas Steam Turbine	NG	ST
2024	12	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	ST
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	1	0.4	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	3	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	4	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2024	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2025	1	17568	Cooperative Energy	Electric Utility	Moselle	MS	2070	3	59.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	1	169.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	2	169.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	3	273.0	Natural Gas Steam Turbine	NG	ST
2025	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	4	552.0	Natural Gas Steam Turbine	NG	ST
2025	4	7801	Gulf Power Co	Electric Utility	Pea Ridge	FL	7715	1	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	7801	Gulf Power Co	Electric Utility	Pea Ridge	FL	7715	2	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	4	7801	Gulf Power Co	Electric Utility	Pea Ridge	FL	7715	3	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	10wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	11wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	12wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	13WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	14wt	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	15WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	16WT	0.1	Onshore Wind Turbine	WND	WT
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	17WT	0.1	Onshore Wind Turbine	WND	WT
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2025	5	10451	Kotzebue Electric Assn Inc	Electric Utility	Kotzebue Hybrid	AK	6304	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	56155	Lansing Board of Water and Light	Electric Utility	Erickson Station	MI	1832	1	154.5	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	1	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	2	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	2	51.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	3	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	6	48.0	Petroleum Liquids	DFO	GT
2025	12	15466	Public Service Co of Colorado	Electric Utility	Comanche (CO)	CO	470	2	335.0	Conventional Steam Coal	SUB	ST
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2025	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	2	268.0	Conventional Steam Coal	SUB	ST
2025	12	17698	Southwestern Electric Power Co	Electric Utility	Arsenal Hill	LA	1416	5	110.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	2	183.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	2	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	3	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	2	670.0	Conventional Steam Coal	RC	ST
2025	12	30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	1	427.0	Conventional Steam Coal	SUB	ST
2026	6	11241	Entergy Louisiana LLC	Electric Utility	Little Gypsy	LA	1402	2	415.0	Natural Gas Steam Turbine	NG	ST
2026	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	3	410.7	Natural Gas Steam Turbine	NG	ST
2026	6	55937	Entergy Texas Inc.	Electric Utility	Sabine	TX	3459	4	533.4	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
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	12	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	1	420.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	95.0	Natural Gas Steam Turbine	NG	ST
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	89.0	Natural Gas Fired Combined Cycle	NG	CA
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	69.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	69.0	Natural Gas Fired Combined Cycle	NG	CT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	1	78.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	5860	Empire District Electric Co	Electric Utility	Empire Energy Center	MO	6223	2	78.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	56997	Marina Energy LLC	IPP	L'Oreal Piscataway	NJ	57868	UNIT1	0.8	Solar Photovoltaic	SUN	PV
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	1	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	2	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	3	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	5	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	6	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	7	1.8	Petroleum Liquids	DFO	GT
2026	12	13781	Northern States Power Co - Minnesota	Electric Utility	Inver Hills	MN	1913	8	1.8	Petroleum Liquids	DFO	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Alamosa	CO	464	CT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Alamosa	CO	464	CT2	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fort Lupton	CO	8067	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fort Lupton	CO	8067	2	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Fruita	CO	471	1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2026	12	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	6	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HH	0.5	Solar Photovoltaic	SUN	PV
2027	2	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HII	0.4	Solar Photovoltaic	SUN	PV

**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
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	1.4	Solar Photovoltaic	SUN	PV
2028	1	19876	Virginia Electric & Power Co	Electric Utility	Altavista Power Station	VA	10773	1	51.0	Wood/Wood Waste Biomass	WDS	ST
2028	1	19876	Virginia Electric & Power Co	Electric Utility	Hopewell Power Station	VA	10771	1	51.0	Wood/Wood Waste Biomass	WDS	ST
2028	1	19876	Virginia Electric & Power Co	Electric Utility	Southampton Power Station	VA	10774	1	51.0	Wood/Wood Waste Biomass	WDS	ST
2028	5	56997	Marina Energy LLC	IPP	Heller 400M	NJ	62438	A	0.8	Solar Photovoltaic	SUN	PV
2028	5	56997	Marina Energy LLC	IPP	Heller 400M	NJ	62438	B	0.2	Solar Photovoltaic	SUN	PV
2028	5	56997	Marina Energy LLC	IPP	Heller 400M	NJ	62438	C	0.2	Solar Photovoltaic	SUN	PV
2028	5	56997	Marina Energy LLC	IPP	Heller Industrial Parks	NJ	57869	HM	0.8	Solar Photovoltaic	SUN	PV
2028	5	13756	Northern Indiana Pub Serv Co	Electric Utility	Michigan City	IN	997	12	455.0	Conventional Steam Coal	SUB	ST
2028	12	16604	City of San Antonio - (TX)	Electric Utility	O W Sommers	TX	3611	2	410.0	Natural Gas Steam Turbine	NG	ST
2028	12	61944	GSRP	IPP	ACCC Mays Landing	NJ	60802	PV1	1.4	Solar Photovoltaic	SUN	PV
2028	12	61944	GSRP	IPP	IFF Hazlet	NJ	60709	GRND	3.0	Solar Photovoltaic	SUN	PV
2028	12	9324	Indiana Michigan Power Co	Electric Utility	Rockport	IN	6166	1	1,300.0	Conventional Steam Coal	SUB	ST
2028	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	1	112.0	Natural Gas Steam Turbine	NG	ST
2029	5	5109	DTE Electric Company	Electric Utility	Belle River	MI	6034	ST1	635.0	Conventional Steam Coal	RC	ST
2029	6	11241	Entergy Louisiana LLC	Electric Utility	Little Gypsy	LA	1402	3	517.4	Natural Gas Steam Turbine	NG	ST
2029	10	56667	Lorraine Windpower Project	IPP	Lorraine Windpark Project LLC	TX	57303	LWG1	73.5	Onshore Wind Turbine	WND	WT
2030		30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	2	410.0	Conventional Steam Coal	SUB	ST
2030		30151	Tri-State G & T Assn, Inc	Electric Utility	Craig (CO)	CO	6021	3	448.0	Conventional Steam Coal	SUB	ST
2030	1	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	1	831.0	Conventional Steam Coal	SUB	ST
2030	1	54888	NRG Texas Power LLC	IPP	Limestone	TX	298	2	858.0	Conventional Steam Coal	SUB	ST
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	3	104.0	Natural Gas Fired Combined Cycle	NG	CA
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	31	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	32	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	33	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	34	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	4	104.0	Natural Gas Fired Combined Cycle	NG	CA
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	41	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	42	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	43	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	44	57.0	Natural Gas Fired Combined Cycle	NG	CT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	51	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	52	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	53	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	54	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	55	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	1	54888	NRG Texas Power LLC	IPP	T H Wharton	TX	3469	56	58.0	Natural Gas Fired Combustion Turbine	NG	GT
2030	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2030	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	3	244.0	Natural Gas Steam Turbine	NG	ST
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2031	3	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2031	6	11241	Entergy Louisiana LLC	Electric Utility	Nine Mile Point	LA	1403	6(4)	729.5	Natural Gas Steam Turbine	NG	ST
2031	12	803	Arizona Public Service Co	Electric Utility	Four Corners	NM	2442	4	770.0	Conventional Steam Coal	SUB	ST
2031	12	803	Arizona Public Service Co	Electric Utility	Four Corners	NM	2442	5	770.0	Conventional Steam Coal	SUB	ST
2031	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	1	243.0	Natural Gas Steam Turbine	NG	ST
2032	1	54888	NRG Texas Power LLC	IPP	San Jacinto Steam Electric Station	TX	7325	1	81.0	Natural Gas Fired Combustion Turbine	NG	GT
2032	1	54888	NRG Texas Power LLC	IPP	San Jacinto Steam Electric Station	TX	7325	2	81.0	Natural Gas Fired Combustion Turbine	NG	GT
2033	6	11241	Entergy Louisiana LLC	Electric Utility	Nine Mile Point	LA	1403	5	743.8	Natural Gas Steam Turbine	NG	ST
2034	6	55937	Entergy Texas Inc.	Electric Utility	Lewis Creek	TX	3457	1	252.1	Natural Gas Steam Turbine	NG	ST
2034	6	55937	Entergy Texas Inc.	Electric Utility	Lewis Creek	TX	3457	2	253.0	Natural Gas Steam Turbine	NG	ST
2034	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	3	876.0	Conventional Steam Coal	SUB	ST
2034	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	2	243.0	Natural Gas Steam Turbine	NG	ST
2034	12	17718	Southwestern Public Service Co	Electric Utility	Quay County	NM	58125	1	17.0	Petroleum Liquids	DFO	GT
2035	6	12685	Entergy Mississippi LLC	Electric Utility	Gerald Andrus	MS	8054	1	727.5	Natural Gas Steam Turbine	NG	ST
2036	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	1	339.0	Conventional Steam Coal	SUB	ST
2037	11	54888	NRG Texas Power LLC	IPP	NRG Elbow Creek Energy Storage Project	TX	61362	ECBS	2.0	Batteries	MWH	BA
2037	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	1	532.0	Conventional Steam Coal	SUB	ST
2037	12	17718	Southwestern Public Service Co	Electric Utility	Tolk	TX	6194	2	535.0	Conventional Steam Coal	SUB	ST
2038	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	2	339.0	Conventional Steam Coal	SUB	ST
2039	7	56020	NRG Cedar Bayou Development Company LLC	IPP	Cedar Bayou 4	TX	56806	4	172.0	Natural Gas Fired Combined Cycle	NG	CA
2039	7	56020	NRG Cedar Bayou Development Company LLC	IPP	Cedar Bayou 4	TX	56806	41	165.0	Natural Gas Fired Combined Cycle	NG	CT
2039	7	56020	NRG Cedar Bayou Development Company LLC	IPP	Cedar Bayou 4	TX	56806	42	165.0	Natural Gas Fired Combined Cycle	NG	CT
2040	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	3	106.0	Natural Gas Fired Combustion Turbine	NG	GT
2040	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	4	103.0	Natural Gas Fired Combustion Turbine	NG	GT
2040	12	17718	Southwestern Public Service Co	Electric Utility	Harrington	TX	6193	3	340.0	Conventional Steam Coal	SUB	ST
2043	12	58840	Copenhagen Wind Farm, LLC	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	5	664.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	6	663.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	7	577.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	8	610.0	Conventional Steam Coal	SUB	ST
2045	1	54888	NRG Texas Power LLC	IPP	W A Parish	TX	3470	GT1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2045	1	58365	Petra Nova Power I LLC	IPP	W.A. Parish Carbon Capture Plant	TX	58378	GT2	74.0	Natural Gas Fired Combustion Turbine	NG	GT
2047	7	60455	PVN Milliken, LLC	IPP	PVN Milliken, LLC	CA	60790	PV	3.0	Solar Photovoltaic	SUN	PV
2049	4	61612	Panda Solar NC 1, LLC	IPP	Panda Solar NC 1, LLC	NC	62089	20002	1.0	Solar Photovoltaic	SUN	PV
2049	4	61655	Panda Solar NC 2, LLC	IPP	Panda Solar NC 2, LLC	NC	62120	20003	2.0	Solar Photovoltaic	SUN	PV
2049	6	61663	Panda Solar NC 10, LLC	IPP	Panda Solar NC 10, LLC	NC	62128	20031	2.0	Solar Photovoltaic	SUN	PV
2049	6	61664	Panda Solar NC 11, LLC	IPP	Panda Solar NC 11, LLC	NC	62129	20032	2.0	Solar Photovoltaic	SUN	PV
2049	6	61656	Panda Solar NC 3, LLC	IPP	Panda Solar NC 3, LLC	NC	62121	20011	2.0	Solar Photovoltaic	SUN	PV
2049	6	61658	Panda Solar NC 5, LLC	IPP	Panda Solar NC 5, LLC	NC	62123	20007	1.0	Solar Photovoltaic	SUN	PV
2049	6	61660	Panda Solar NC 6, LLC	IPP	Panda Solar NC 6, LLC	NC	62124	20028	1.0	Solar Photovoltaic	SUN	PV
2049	6	61662	Panda Solar NC 9, LLC	IPP	Panda Solar NC 9, LLC	NC	62127	20022	2.0	Solar Photovoltaic	SUN	PV
2049	9	61661	Panda Solar NC 8, LLC	IPP	Panda Solar NC 8, LLC	NC	62126	20052	2.0	Solar Photovoltaic	SUN	PV
2056	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	3	166.0	Natural Gas Fired Combustion Turbine	NG	GT
2058	12	17718	Southwestern Public Service Co	Electric Utility	Jones	TX	3482	4	168.0	Natural Gas Fired Combustion Turbine	NG	GT

## NOTES:

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

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

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

**Table 6.07.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels**

Year/Month	Coal		Natural Gas								Petroleum					
	Time Adjusted Capacity	Capacity Factor	Combined Cycle		Gas Turbine		Steam Turbine		Internal Combustion		Steam Turbine		Gas Turbine		Internal Combustion	
			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.							

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

**Table 6.07.C. Usage Factors for Utility Scale Storage Generators**

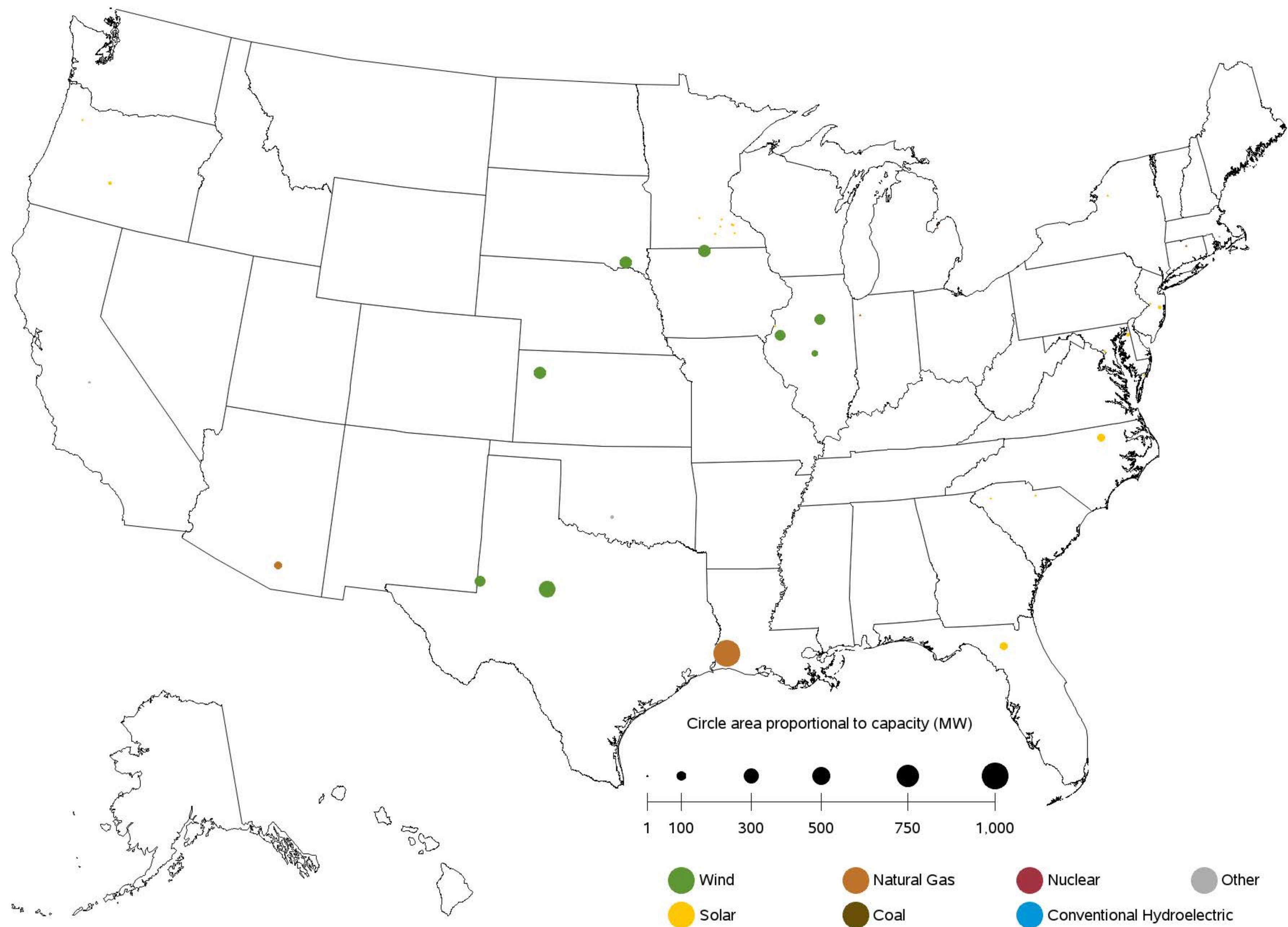
Year/Month	Battery		Pumped Storage	
	Time Adjusted Capacity	Usage Factor	Time Adjusted Capacity	Usage Factor
<b>Annual Data</b>				
2013	126.7	0.7%	22,389.3	9.8%
2014	155.1	1.7%	22,477.9	10.2%
2015	206.8	3.6%	22,568.9	10.2%
2016	423.0	3.8%	22,752.7	11.2%
2017	632.8	6.8%	22,791.7	11.4%
2018	713.6	5.2%	22,815.4	10.8%
2019	952.3	4.0%	22,849.2	10.4%
<b>Year 2018</b>				
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%
<b>Year 2019</b>				
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%
<b>Year 2020</b>				
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%

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.

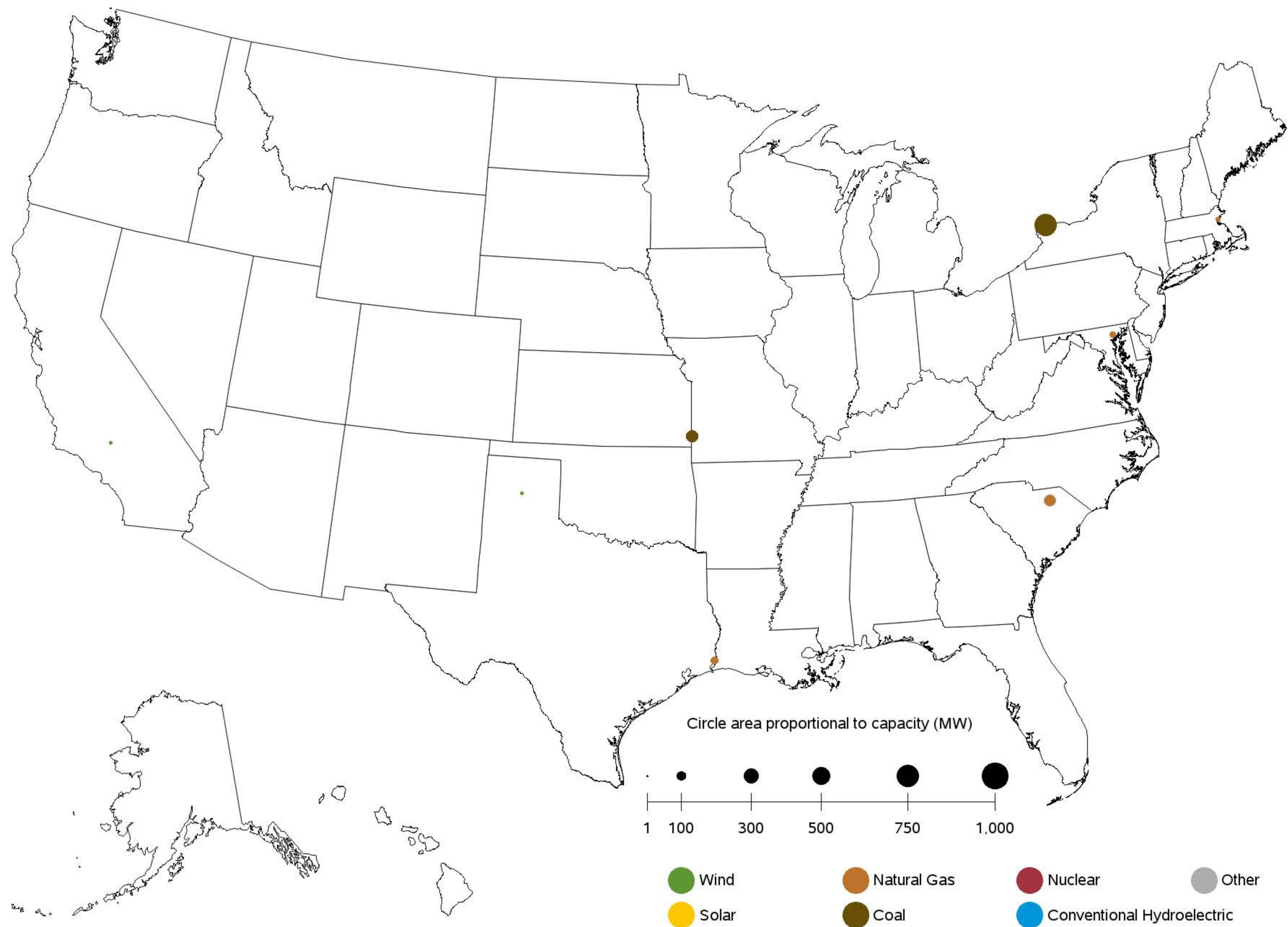
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



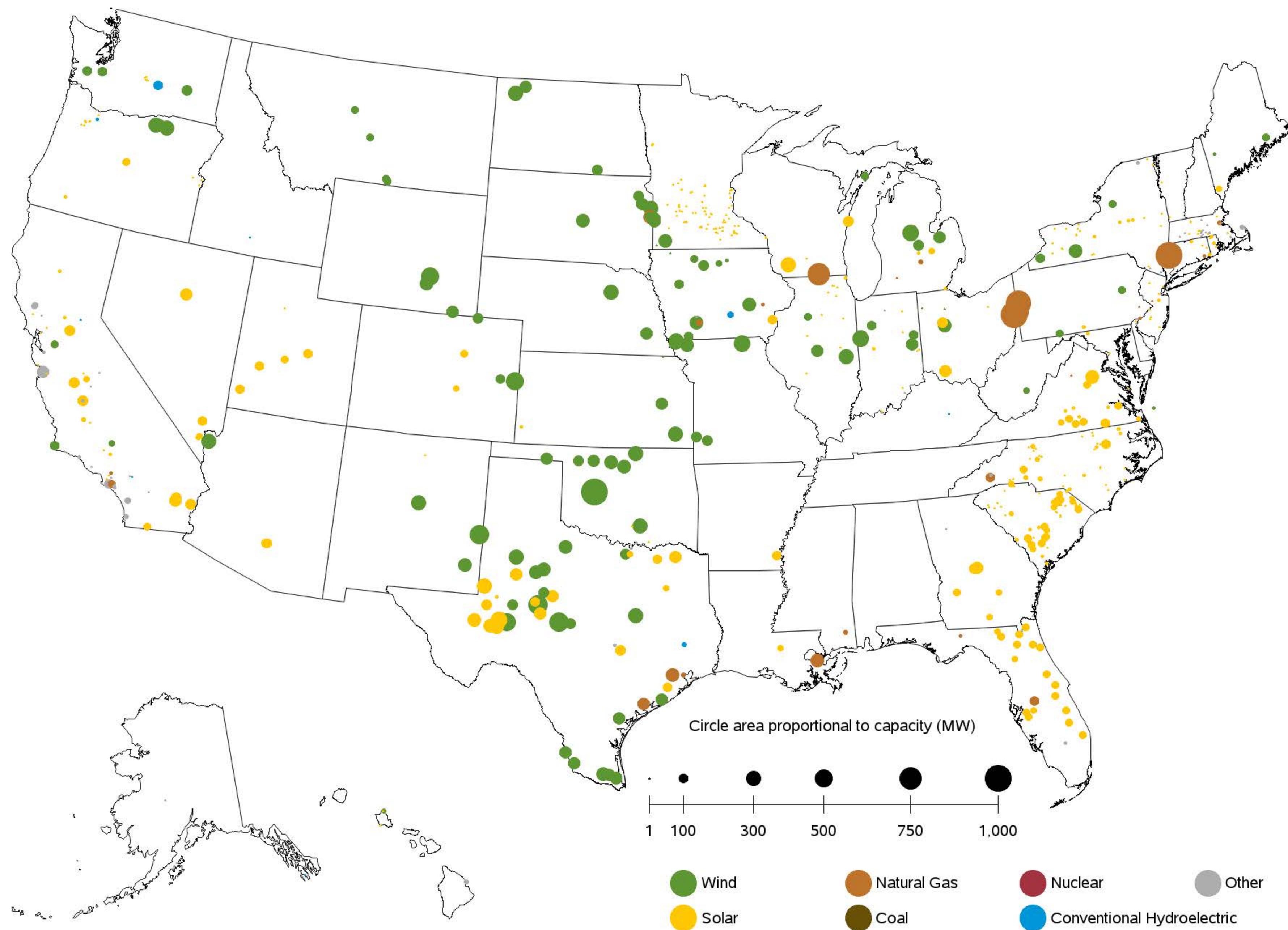
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



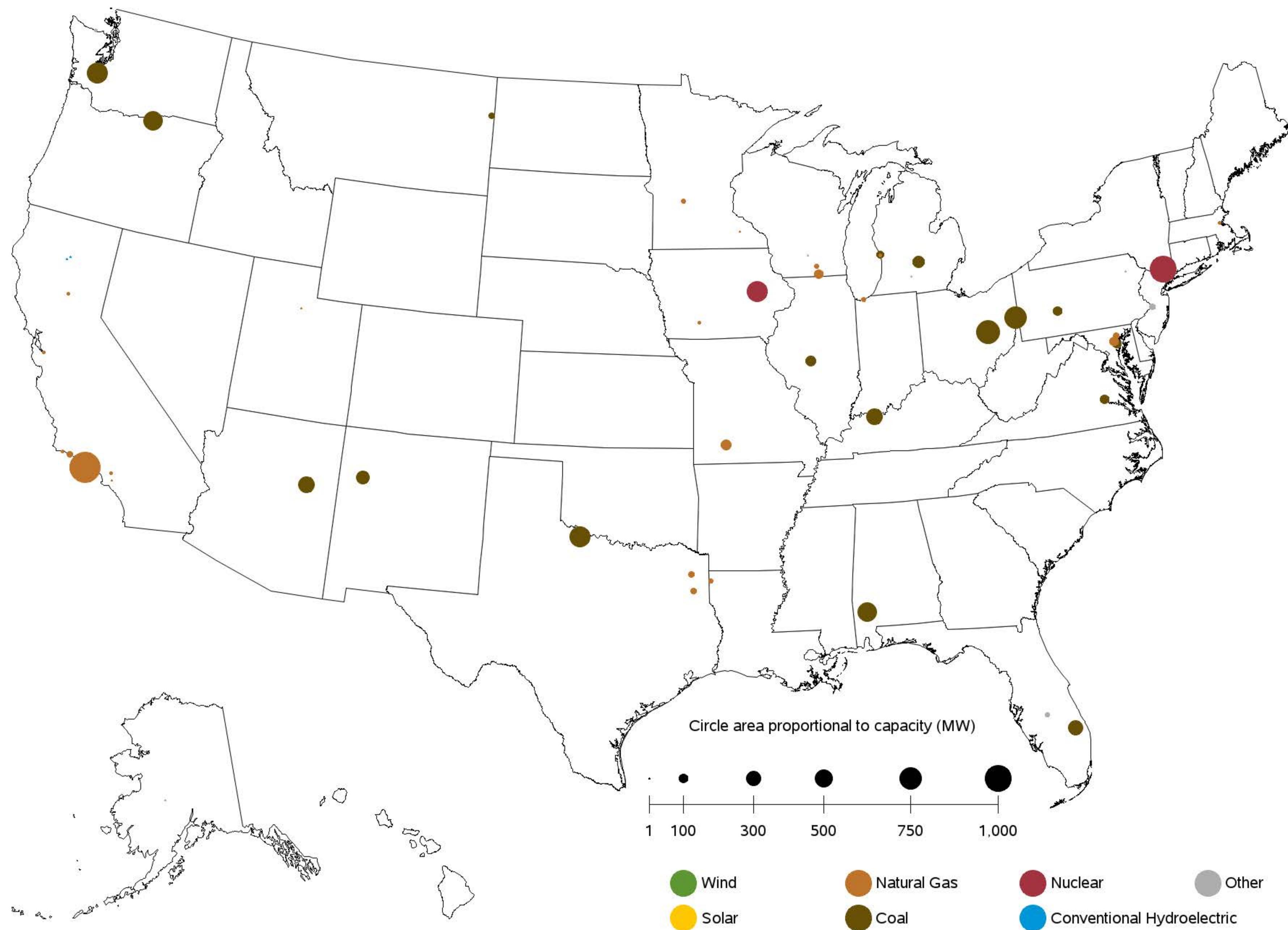
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



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

Figure 6.1.D. Utility-Scale Generating Units Planned to Retire from April 2020 to March 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
<b>Annual Totals</b>							
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
<b>Year 2018</b>							
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
<b>Year 2019</b>							
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
<b>Year 2020</b>							
January	4,263,972	1,238,681	380,376	149,763	4,644,348	1,388,444	3,255,904
February	4,555,019	919,331	341,262	326,366	4,896,281	1,245,697	3,650,584
March	4,541,437	1,088,977	363,374	418,438	4,904,811	1,507,415	3,397,396

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 - March 2020 (Thousand Megawatthours)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	475	601	137	0	1,213
February	373	540	120	0	1,033
March	488	691	184	0	1,364
<b>Year to Date</b>					
2018	1,232	1,850	415	0	3,497
2019	1,262	1,709	480	0	3,451
2020	1,336	1,833	442	0	3,610
<b>Rolling 12 Months Ending in March</b>					
2019	6,133	8,062	2,193	0	16,388
2020	6,278	8,022	2,010	0	16,311

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 - March 2020 (Million Dollars)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
January	122	180	36	0	338
February	99	161	32	0	292
March	87	143	34	0	264
<b>Year to Date</b>					
2018	272	479	86	0	837
2019	263	399	96	0	759
2020	308	484	101	0	894
<b>Rolling 12 Months Ending in March</b>					
2019	1,257	1,813	416	0	3,486
2020	1,375	1,894	425	0	3,694

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 - March 2020**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Rolling 12 Months Ending in March</b>					
2019	1,347,289	126,426	600	0	1,474,316
2020	1,342,880	125,051	591	0	1,468,522

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 - March 2020 (Cents per Kilowatthour)**

Period	Residential	Commercial	Industrial	Transportation	All Sectors
<b>Annual Totals</b>					
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
<b>Year 2018</b>					
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
<b>Year 2019</b>					
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
<b>Year 2020</b>					
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
<b>Year to Date</b>					
2018	22.06	25.89	20.71	--	23.92
2019	20.86	23.33	20.09	--	21.98
2020	23.08	26.41	22.96	--	24.75
<b>Rolling 12 Months Ending in March</b>					
2019	20.49	22.49	18.95	--	21.27
2020	21.89	23.61	21.15	--	22.65

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-March 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	3,604	145	99	5,781
2018	454	98	1,346	35	3,606	145	99	5,783
2019	454	98	1,346	35	3,606	149	99	5,787
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

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, March 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	48	36	0	4	0	0	9
Connecticut	0	67	0	1	0	0	26
Maine	48	20	0	12	0	0	12
Massachusetts	0	78	0	10	0	0	19
New Hampshire	0	22	0	0	0	0	21
Rhode Island	0	147	0	18	0	0	0
Vermont	0	128	0	0	0	0	18
<b>Middle Atlantic</b>	<b>5</b>	<b>24</b>	<b>0</b>	<b>1</b>	<b>23</b>	<b>0</b>	<b>3</b>
New Jersey	0	65	0	3	0	0	0
New York	0	19	0	3	0	0	2
Pennsylvania	5	66	0	1	30	0	10
<b>East North Central</b>	<b>1</b>	<b>9</b>	<b>10</b>	<b>1</b>	<b>11</b>	<b>0</b>	<b>12</b>
Illinois	1	10	0	9	0	0	37
Indiana	0	2	0	3	17	0	43
Michigan	3	14	0	3	0	0	21
Ohio	1	7	18	1	29	0	42
Wisconsin	1	99	0	3	0	0	16
<b>West North Central</b>	<b>1</b>	<b>14</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>8</b>
Iowa	1	41	0	10	0	0	28
Kansas	0	2	0	12	0	0	0
Minnesota	6	104	0	9	0	0	24
Missouri	0	12	0	11	0	0	23
Nebraska	4	137	0	37	0	0	22
North Dakota	0	10	0	35	0	0	15
South Dakota	0	309	0	37	0	0	10
<b>South Atlantic</b>	<b>1</b>	<b>9</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>6</b>
Delaware	0	111	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	6	0	1	0	0	44
Georgia	0	29	38	3	0	0	10
Maryland	0	49	0	1	0	0	2
North Carolina	0	26	0	2	0	0	9
South Carolina	0	10	0	2	0	0	14
Virginia	0	24	0	2	0	0	16
West Virginia	2	0	0	5	0	0	15
<b>East South Central</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>92</b>	<b>0</b>	<b>4</b>
Alabama	0	26	0	2	424	0	5
Kentucky	0	0	0	9	0	0	10
Mississippi	0	4	0	2	0	0	0
Tennessee	0	1	0	4	0	0	7
<b>West South Central</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>9</b>
Arkansas	0	0	0	8	0	0	12
Louisiana	0	538	0	2	17	0	18
Oklahoma	0	72	0	3	0	0	15
Texas	0	9	11	2	5	0	20
<b>Mountain</b>	<b>1</b>	<b>10</b>	<b>0</b>	<b>1</b>	<b>8</b>	<b>0</b>	<b>4</b>
Arizona	0	6	0	1	0	0	4
Colorado	0	130	0	2	0	0	17
Idaho	179	0	0	17	0	0	8
Montana	5	42	0	39	0	0	8
Nevada	0	0	0	1	0	0	3
New Mexico	0	34	0	6	0	0	62
Utah	0	4	0	4	0	0	27
Wyoming	3	1	0	5	8	0	26
<b>Pacific Contiguous</b>	<b>0</b>	<b>29</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>2</b>
California	0	26	0	1	3	0	9
Oregon	0	0	0	4	0	0	3
Washington	0	101	0	6	0	0	1
<b>Pacific Noncontiguous</b>	<b>12</b>	<b>1</b>	<b>0</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>19</b>
Alaska	31	4	0	27	0	0	20
Hawaii	0	1	0	0	0	0	16
<b>U.S. Total</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>2</b>

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, March 2020 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
<b>New England</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>2</b>
Connecticut	0	0	0	16	8	0	0	1
Maine	0	0	0	70	4	0	0	5
Massachusetts	0	0	0	7	4	0	1	6
New Hampshire	0	0	0	0	11	0	0	2
Rhode Island	0	0	0	28	10	0	0	16
Vermont	0	0	0	19	9	0	0	11
<b>Middle Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>1</b>
New Jersey	0	0	0	7	4	0	0	2
New York	0	0	0	9	3	0	2	1
Pennsylvania	0	0	0	23	3	0	0	1
<b>East North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>1</b>
Illinois	0	0	0	23	2	0	0	1
Indiana	0	0	0	13	2	0	0	1
Michigan	0	0	0	18	3	0	13	1
Ohio	0	0	0	9	3	0	0	1
Wisconsin	0	0	0	32	5	0	46	1
<b>West North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>1</b>
Iowa	0	0	0	58	2	0	0	1
Kansas	0	0	0	67	2	0	0	1
Minnesota	0	0	0	6	3	0	3	2
Missouri	0	0	0	23	3	0	0	1
Nebraska	0	0	0	40	2	0	0	3
North Dakota	0	0	0	0	2	0	27	2
South Dakota	0	0	0	177	3	0	0	5
<b>South Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
Delaware	0	0	0	33	21	0	0	1
District of Columbia	0	0	0	73	13	0	0	10
Florida	0	0	0	1	2	0	0	1
Georgia	0	0	0	3	3	0	0	2
Maryland	0	0	0	9	6	0	0	0
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	5	3	0	0	1
Virginia	0	0	0	6	3	0	0	1
West Virginia	0	0	0	0	5	0	0	2
<b>East South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>4</b>	<b>0</b>	<b>26</b>	<b>1</b>
Alabama	0	0	0	10	5	0	0	1
Kentucky	0	0	0	29	20	0	0	1
Mississippi	0	0	0	3	5	0	0	2
Tennessee	0	0	0	13	7	0	110	1
<b>West South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>1</b>
Arkansas	0	0	0	6	11	0	0	3
Louisiana	0	0	0	191	9	0	0	2
Oklahoma	0	0	0	33	2	0	0	2
Texas	0	0	0	2	1	0	6	1
<b>Mountain</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>1</b>
Arizona	0	0	0	2	3	0	0	1
Colorado	0	0	0	6	3	0	0	1
Idaho	0	52	0	8	5	0	0	6
Montana	0	0	0	42	6	0	0	4
Nevada	0	10	0	2	5	0	0	2
New Mexico	0	0	0	6	2	0	0	2
Utah	0	25	0	5	5	0	11	1
Wyoming	0	0	0	0	5	0	0	3
<b>Pacific Contiguous</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>1</b>
California	0	5	0	1	2	0	3	1
Oregon	0	38	0	8	3	0	0	2
Washington	0	0	0	48	3	0	0	1
<b>Pacific Noncontiguous</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>8</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>6</b>
Alaska	0	0	0	0	18	0	0	14
Hawaii	0	40	0	8	10	0	0	2
<b>U.S. Total</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

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 March 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
<b>New England</b>	<b>48</b>	<b>36</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>9</b>
Connecticut	0	67	0	1	0	0	26
Maine	48	20	0	12	0	0	12
Massachusetts	0	78	0	10	0	0	19
New Hampshire	0	22	0	0	0	0	21
Rhode Island	0	147	0	18	0	0	0
Vermont	0	128	0	0	0	0	18
<b>Middle Atlantic</b>	<b>5</b>	<b>24</b>	<b>0</b>	<b>1</b>	<b>23</b>	<b>0</b>	<b>3</b>
New Jersey	0	65	0	3	0	0	0
New York	0	19	0	3	0	0	2
Pennsylvania	5	66	0	1	30	0	10
<b>East North Central</b>	<b>1</b>	<b>9</b>	<b>10</b>	<b>1</b>	<b>11</b>	<b>0</b>	<b>12</b>
Illinois	1	10	0	9	0	0	37
Indiana	0	2	0	3	17	0	43
Michigan	3	14	0	3	0	0	21
Ohio	1	7	18	1	29	0	42
Wisconsin	1	99	0	3	0	0	16
<b>West North Central</b>	<b>1</b>	<b>14</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>8</b>
Iowa	1	41	0	10	0	0	28
Kansas	0	2	0	12	0	0	0
Minnesota	6	104	0	9	0	0	24
Missouri	0	12	0	11	0	0	23
Nebraska	4	137	0	37	0	0	22
North Dakota	0	10	0	35	0	0	15
South Dakota	0	309	0	37	0	0	10
<b>South Atlantic</b>	<b>1</b>	<b>9</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>6</b>
Delaware	0	111	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	6	0	1	0	0	44
Georgia	0	29	38	3	0	0	10
Maryland	0	49	0	1	0	0	2
North Carolina	0	26	0	2	0	0	9
South Carolina	0	10	0	2	0	0	14
Virginia	0	24	0	2	0	0	16
West Virginia	2	0	0	5	0	0	15
<b>East South Central</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>92</b>	<b>0</b>	<b>4</b>
Alabama	0	26	0	2	424	0	5
Kentucky	0	0	0	9	0	0	10
Mississippi	0	4	0	2	0	0	0
Tennessee	0	1	0	4	0	0	7
<b>West South Central</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>9</b>
Arkansas	0	0	0	8	0	0	12
Louisiana	0	538	0	2	17	0	18
Oklahoma	0	72	0	3	0	0	15
Texas	0	9	11	2	5	0	20
<b>Mountain</b>	<b>1</b>	<b>10</b>	<b>0</b>	<b>1</b>	<b>8</b>	<b>0</b>	<b>4</b>
Arizona	0	6	0	1	0	0	4
Colorado	0	130	0	2	0	0	17
Idaho	179	0	0	17	0	0	8
Montana	5	42	0	39	0	0	8
Nevada	0	0	0	1	0	0	3
New Mexico	0	34	0	6	0	0	62
Utah	0	4	0	4	0	0	27
Wyoming	3	1	0	5	8	0	26
<b>Pacific Contiguous</b>	<b>0</b>	<b>29</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>2</b>
California	0	26	0	1	3	0	9
Oregon	0	0	0	4	0	0	3
Washington	0	101	0	6	0	0	1
<b>Pacific Noncontiguous</b>	<b>12</b>	<b>1</b>	<b>0</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>19</b>
Alaska	31	4	0	27	0	0	20
Hawaii	0	1	0	0	0	0	16
<b>U.S. Total</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>2</b>

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 March 2020 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
<b>New England</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>2</b>
Connecticut	0	0	0	16	8	0	0	1
Maine	0	0	0	70	4	0	0	5
Massachusetts	0	0	0	7	4	0	1	6
New Hampshire	0	0	0	0	11	0	0	2
Rhode Island	0	0	0	28	10	0	0	16
Vermont	0	0	0	19	9	0	0	11
<b>Middle Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>1</b>
New Jersey	0	0	0	7	4	0	0	2
New York	0	0	0	9	3	0	2	1
Pennsylvania	0	0	0	23	3	0	0	1
<b>East North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>1</b>
Illinois	0	0	0	23	2	0	0	1
Indiana	0	0	0	13	2	0	0	1
Michigan	0	0	0	18	3	0	13	1
Ohio	0	0	0	9	3	0	0	1
Wisconsin	0	0	0	32	5	0	46	1
<b>West North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>1</b>
Iowa	0	0	0	58	2	0	0	1
Kansas	0	0	0	67	2	0	0	1
Minnesota	0	0	0	6	3	0	3	2
Missouri	0	0	0	23	3	0	0	1
Nebraska	0	0	0	40	2	0	0	3
North Dakota	0	0	0	0	2	0	27	2
South Dakota	0	0	0	177	3	0	0	5
<b>South Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
Delaware	0	0	0	33	21	0	0	1
District of Columbia	0	0	0	73	13	0	0	10
Florida	0	0	0	1	2	0	0	1
Georgia	0	0	0	3	3	0	0	2
Maryland	0	0	0	9	6	0	0	0
North Carolina	0	0	0	2	2	0	0	1
South Carolina	0	0	0	5	3	0	0	1
Virginia	0	0	0	6	3	0	0	1
West Virginia	0	0	0	0	5	0	0	2
<b>East South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>4</b>	<b>0</b>	<b>26</b>	<b>1</b>
Alabama	0	0	0	10	5	0	0	1
Kentucky	0	0	0	29	20	0	0	1
Mississippi	0	0	0	3	5	0	0	2
Tennessee	0	0	0	13	7	0	110	1
<b>West South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>1</b>
Arkansas	0	0	0	6	11	0	0	3
Louisiana	0	0	0	191	9	0	0	2
Oklahoma	0	0	0	33	2	0	0	2
Texas	0	0	0	2	1	0	6	1
<b>Mountain</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>1</b>
Arizona	0	0	0	2	3	0	0	1
Colorado	0	0	0	6	3	0	0	1
Idaho	0	52	0	8	5	0	0	6
Montana	0	0	0	42	6	0	0	4
Nevada	0	10	0	2	5	0	0	2
New Mexico	0	0	0	6	2	0	0	2
Utah	0	25	0	5	5	0	11	1
Wyoming	0	0	0	0	5	0	0	3
<b>Pacific Contiguous</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>1</b>
California	0	5	0	1	2	0	3	1
Oregon	0	38	0	8	3	0	0	2
Washington	0	0	0	48	3	0	0	1
<b>Pacific Noncontiguous</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>8</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>6</b>
Alaska	0	0	0	0	18	0	0	14
Hawaii	0	40	0	8	10	0	0	2
<b>U.S. Total</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

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, March 2020**

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
<b>New England</b>	0	0	1	.	0
Connecticut	0	0	0	.	0
Maine	1	2	0	.	1
Massachusetts	0	0	1	.	0
New Hampshire	1	0	0	.	0
Rhode Island	0	0	0	.	0
Vermont	2	8	46	.	4
<b>Middle Atlantic</b>	0	0	2	.	0
New Jersey	0	1	2	.	0
New York	0	0	1	.	0
Pennsylvania	1	3	1	.	1
<b>East North Central</b>	5	3	8	.	3
Illinois	7	5	0	.	5
Indiana	14	3	0	.	7
Michigan	9	18	100	.	8
Ohio	12	3	9	.	5
Wisconsin	22	16	13	.	13
<b>West North Central</b>	1	1	2	.	1
Iowa	2	2	11	.	2
Kansas	5	5	0	.	4
Minnesota	2	5	1	.	2
Missouri	1	1	2	.	1
Nebraska	6	28	10	.	7
North Dakota	0	0	0	.	0
South Dakota	0	0	0	.	0
<b>South Atlantic</b>	2	1	1	.	1
Delaware	7	3	16	.	5
District of Columbia	0	0	0	.	0
Florida	4	5	1	.	4
Georgia	191	37	0	.	111
Maryland	1	1	2	.	1
North Carolina	7	3	0	.	5
South Carolina	6	5	0	.	5
Virginia	11	4	4	.	7
West Virginia	0	0	0	.	0
<b>East South Central</b>	9	5	0	.	7
Alabama	0	0	0	.	0
Kentucky	10	6	0	.	8
Mississippi	22	13	0	.	14
Tennessee	0	0	0	.	0
<b>West South Central</b>	3	5	5	.	3
Arkansas	18	17	0	.	12
Louisiana	4	9	0	.	4
Oklahoma	23	15	0	.	17
Texas	5	6	0	.	4
<b>Mountain</b>	0	0	1	.	0
Arizona	0	0	0	.	0
Colorado	2	1	28	.	2
Idaho	2	2	0	.	2
Montana	10	3	0	.	7
Nevada	0	0	0	.	0
New Mexico	3	1	47	.	2
Utah	1	1	0	.	1
Wyoming	15	11	0	.	12
<b>Pacific Contiguous</b>	0	0	0	.	0
California	0	0	0	.	0
Oregon	1	1	6	.	1
Washington	2	3	24	.	1
<b>Pacific Noncontiguous</b>	0	0	0	.	0
Alaska	2	3	0	.	2
Hawaii	0	0	0	.	0
<b>U.S. Total</b>	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, March 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	113	0	139	0	0	19
Connecticut	0	60	0	0	0	0	32
Massachusetts	0	164	0	426	0	0	39
New Hampshire	0	890	0	0	0	0	33
Rhode Island	0	0	0	0	0	0	0
Vermont	0	128	0	0	0	0	29
<b>Middle Atlantic</b>	<b>0</b>	<b>51</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>1</b>
New Jersey	0	0	0	177	0	0	0
New York	0	51	0	8	0	0	1
Pennsylvania	0	0	0	0	0	0	0
<b>East North Central</b>	<b>1</b>	<b>13</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>13</b>
Illinois	0	49	0	0	0	0	62
Indiana	0	2	0	8	0	0	43
Michigan	3	14	0	7	0	0	22
Ohio	6	22	0	5	0	0	44
Wisconsin	0	102	0	3	0	0	18
<b>West North Central</b>	<b>1</b>	<b>14</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>8</b>
Iowa	1	44	0	13	0	0	29
Kansas	0	2	0	13	0	0	0
Minnesota	6	130	0	11	0	0	32
Missouri	0	12	0	25	0	0	23
Nebraska	5	137	0	37	0	0	22
North Dakota	0	10	0	35	0	0	15
South Dakota	0	310	0	37	0	0	10
<b>South Atlantic</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>7</b>
Delaware	0	0	0	0	0	0	0
Florida	0	3	0	1	0	0	44
Georgia	0	11	0	4	0	0	10
Maryland	0	108	0	0	0	0	0
North Carolina	0	28	0	2	0	0	9
South Carolina	0	12	0	1	0	0	14
Virginia	0	95	0	3	0	0	16
West Virginia	0	0	0	0	0	0	25
<b>East South Central</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>4</b>
Alabama	0	0	0	7	0	0	5
Kentucky	0	0	0	9	0	0	10
Mississippi	0	6	0	2	0	0	0
Tennessee	0	1	0	5	0	0	7
<b>West South Central</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>10</b>
Arkansas	0	0	0	8	0	0	13
Louisiana	0	538	0	3	0	0	0
Oklahoma	0	365	0	5	0	0	15
Texas	0	23	0	5	0	0	21
<b>Mountain</b>	<b>1</b>	<b>11</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>4</b>
Arizona	0	6	0	1	0	0	4
Colorado	0	130	0	2	0	0	18
Idaho	0	0	0	13	0	0	9
Montana	0	773	0	50	0	0	8
Nevada	0	0	0	1	0	0	0
New Mexico	0	34	0	8	0	0	62
Utah	0	5	0	4	0	0	27
Wyoming	3	1	0	10	0	0	26
<b>Pacific Contiguous</b>	<b>0</b>	<b>28</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>
California	0	33	0	3	0	0	8
Oregon	0	0	0	8	0	0	3
Washington	0	161	0	7	0	0	1
<b>Pacific Noncontiguous</b>	<b>40</b>	<b>1</b>	<b>0</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>21</b>
Alaska	40	5	0	27	0	0	21
Hawaii	0	1	0	0	0	0	0
<b>U.S. Total</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>

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, March 2020 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
<b>New England</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>13</b>
Connecticut	0	0	0	0	0	0	0	16
Massachusetts	0	0	0	27	21	0	0	29
New Hampshire	0	0	0	0	0	0	0	33
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	33	11	0	0	16
<b>Middle Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>2</b>
New Jersey	0	0	0	27	27	0	0	54
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	0
<b>East North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>4</b>	<b>0</b>	<b>23</b>	<b>1</b>
Illinois	0	0	0	52	19	0	0	1
Indiana	0	0	0	19	11	0	0	2
Michigan	0	0	0	16	5	0	0	2
Ohio	0	0	0	92	60	0	0	4
Wisconsin	0	0	0	0	9	0	24	1
<b>West North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>1</b>	<b>0</b>	<b>7</b>	<b>1</b>
Iowa	0	0	0	86	1	0	0	2
Kansas	0	0	0	177	8	0	0	2
Minnesota	0	0	0	140	5	0	0	3
Missouri	0	0	0	0	41	0	0	1
Nebraska	0	0	0	109	20	0	0	3
North Dakota	0	0	0	0	4	0	27	2
South Dakota	0	0	0	0	10	0	0	8
<b>South Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
Delaware	0	0	0	95	95	0	0	93
Florida	0	0	0	0	0	0	0	1
Georgia	0	0	0	9	9	0	0	2
Maryland	0	0	0	83	83	0	0	0
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	98	6	0	0	1
Virginia	0	0	0	8	9	0	0	2
West Virginia	0	0	0	0	0	0	0	0
<b>East South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>1</b>
Alabama	0	0	0	43	43	0	0	2
Kentucky	0	0	0	29	20	0	0	1
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	167	167	0	0	1
<b>West South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>29</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>2</b>
Arkansas	0	0	0	193	193	0	0	3
Louisiana	0	0	0	191	191	0	0	2
Oklahoma	0	0	0	33	10	0	0	4
Texas	0	0	0	66	31	0	0	3
<b>Mountain</b>	<b>0</b>	<b>34</b>	<b>0</b>	<b>7</b>	<b>4</b>	<b>0</b>	<b>19</b>	<b>1</b>
Arizona	0	0	0	8	8	0	0	1
Colorado	0	0	0	93	6	0	0	1
Idaho	0	0	0	0	20	0	0	7
Montana	0	0	0	0	18	0	0	7
Nevada	0	0	0	0	0	0	0	1
New Mexico	0	0	0	14	14	0	0	4
Utah	0	34	0	0	34	0	28	1
Wyoming	0	0	0	0	6	0	0	3
<b>Pacific Contiguous</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>1</b>
California	0	0	0	11	5	0	0	2
Oregon	0	0	0	96	4	0	0	3
Washington	0	0	0	0	3	0	0	1
<b>Pacific Noncontiguous</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>9</b>
Alaska	0	0	0	0	27	0	0	16
Hawaii	0	0	0	25	18	0	0	1
<b>U.S. Total</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>0</b>

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**Table A.2.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:****Electric Utilities by Census Division and State, Year-to-Date through March 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
<b>New England</b>	<b>0</b>	<b>113</b>	<b>0</b>	<b>139</b>	<b>0</b>	<b>0</b>	<b>19</b>
Connecticut	0	60	0	0	0	0	32
Massachusetts	0	164	0	426	0	0	39
New Hampshire	0	890	0	0	0	0	33
Rhode Island	0	0	0	0	0	0	0
Vermont	0	128	0	0	0	0	29
<b>Middle Atlantic</b>	<b>0</b>	<b>51</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>1</b>
New Jersey	0	0	0	177	0	0	0
New York	0	51	0	8	0	0	1
Pennsylvania	0	0	0	0	0	0	0
<b>East North Central</b>	<b>1</b>	<b>13</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>13</b>
Illinois	0	49	0	0	0	0	62
Indiana	0	2	0	8	0	0	43
Michigan	3	14	0	7	0	0	22
Ohio	6	22	0	5	0	0	44
Wisconsin	0	102	0	3	0	0	18
<b>West North Central</b>	<b>1</b>	<b>14</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>8</b>
Iowa	1	44	0	13	0	0	29
Kansas	0	2	0	13	0	0	0
Minnesota	6	130	0	11	0	0	32
Missouri	0	12	0	25	0	0	23
Nebraska	5	137	0	37	0	0	22
North Dakota	0	10	0	35	0	0	15
South Dakota	0	310	0	37	0	0	10
<b>South Atlantic</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>7</b>
Delaware	0	0	0	0	0	0	0
Florida	0	3	0	1	0	0	44
Georgia	0	11	0	4	0	0	10
Maryland	0	108	0	0	0	0	0
North Carolina	0	28	0	2	0	0	9
South Carolina	0	12	0	1	0	0	14
Virginia	0	95	0	3	0	0	16
West Virginia	0	0	0	0	0	0	25
<b>East South Central</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>4</b>
Alabama	0	0	0	7	0	0	5
Kentucky	0	0	0	9	0	0	10
Mississippi	0	6	0	2	0	0	0
Tennessee	0	1	0	5	0	0	7
<b>West South Central</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>10</b>
Arkansas	0	0	0	8	0	0	13
Louisiana	0	538	0	3	0	0	0
Oklahoma	0	365	0	5	0	0	15
Texas	0	23	0	5	0	0	21
<b>Mountain</b>	<b>1</b>	<b>11</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>4</b>
Arizona	0	6	0	1	0	0	4
Colorado	0	130	0	2	0	0	18
Idaho	0	0	0	13	0	0	9
Montana	0	773	0	50	0	0	8
Nevada	0	0	0	1	0	0	0
New Mexico	0	34	0	8	0	0	62
Utah	0	5	0	4	0	0	27
Wyoming	3	1	0	10	0	0	26
<b>Pacific Contiguous</b>	<b>0</b>	<b>28</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>
California	0	33	0	3	0	0	8
Oregon	0	0	0	8	0	0	3
Washington	0	161	0	7	0	0	1
<b>Pacific Noncontiguous</b>	<b>40</b>	<b>1</b>	<b>0</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>21</b>
Alaska	40	5	0	27	0	0	21
Hawaii	0	1	0	0	0	0	0
<b>U.S. Total</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>

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**Table A.2.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:****Electric Utilities by Census Division and State, Year-to-Date through March 2020 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
<b>New England</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>13</b>
Connecticut	0	0	0	0	0	0	0	16
Massachusetts	0	0	0	27	21	0	0	29
New Hampshire	0	0	0	0	0	0	0	33
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	33	11	0	0	16
<b>Middle Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>2</b>
New Jersey	0	0	0	27	27	0	0	54
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	0
<b>East North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>4</b>	<b>0</b>	<b>23</b>	<b>1</b>
Illinois	0	0	0	52	19	0	0	1
Indiana	0	0	0	19	11	0	0	2
Michigan	0	0	0	16	5	0	0	2
Ohio	0	0	0	92	60	0	0	4
Wisconsin	0	0	0	0	9	0	24	1
<b>West North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>1</b>	<b>0</b>	<b>7</b>	<b>1</b>
Iowa	0	0	0	86	1	0	0	2
Kansas	0	0	0	177	8	0	0	2
Minnesota	0	0	0	140	5	0	0	3
Missouri	0	0	0	0	41	0	0	1
Nebraska	0	0	0	109	20	0	0	3
North Dakota	0	0	0	0	4	0	27	2
South Dakota	0	0	0	0	10	0	0	8
<b>South Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
Delaware	0	0	0	95	95	0	0	93
Florida	0	0	0	0	0	0	0	1
Georgia	0	0	0	9	9	0	0	2
Maryland	0	0	0	83	83	0	0	0
North Carolina	0	0	0	7	7	0	0	1
South Carolina	0	0	0	98	6	0	0	1
Virginia	0	0	0	8	9	0	0	2
West Virginia	0	0	0	0	0	0	0	0
<b>East South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>1</b>
Alabama	0	0	0	43	43	0	0	2
Kentucky	0	0	0	29	20	0	0	1
Mississippi	0	0	0	0	0	0	0	2
Tennessee	0	0	0	167	167	0	0	1
<b>West South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>29</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>2</b>
Arkansas	0	0	0	193	193	0	0	3
Louisiana	0	0	0	191	191	0	0	2
Oklahoma	0	0	0	33	10	0	0	4
Texas	0	0	0	66	31	0	0	3
<b>Mountain</b>	<b>0</b>	<b>34</b>	<b>0</b>	<b>7</b>	<b>4</b>	<b>0</b>	<b>19</b>	<b>1</b>
Arizona	0	0	0	8	8	0	0	1
Colorado	0	0	0	93	6	0	0	1
Idaho	0	0	0	0	20	0	0	7
Montana	0	0	0	0	18	0	0	7
Nevada	0	0	0	0	0	0	0	1
New Mexico	0	0	0	14	14	0	0	4
Utah	0	34	0	0	34	0	28	1
Wyoming	0	0	0	0	6	0	0	3
<b>Pacific Contiguous</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>1</b>
California	0	0	0	11	5	0	0	2
Oregon	0	0	0	96	4	0	0	3
Washington	0	0	0	0	3	0	0	1
<b>Pacific Noncontiguous</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>9</b>
Alaska	0	0	0	0	27	0	0	16
Hawaii	0	0	0	25	18	0	0	1
<b>U.S. Total</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>0</b>

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, March 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
<b>New England</b>	<b>0</b>	<b>49</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>10</b>
Connecticut	0	71	0	0	0	0	28
Maine	0	5	0	0	0	0	12
Massachusetts	0	107	0	11	0	0	22
New Hampshire	0	2,702	0	0	0	0	24
Rhode Island	0	162	0	18	0	0	0
Vermont	0	0	0	0	0	0	22
<b>Middle Atlantic</b>	<b>5</b>	<b>28</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>9</b>
New Jersey	0	70	0	3	0	0	0
New York	0	20	0	3	0	0	10
Pennsylvania	5	70	0	1	0	0	11
<b>East North Central</b>	<b>0</b>	<b>6</b>	<b>18</b>	<b>2</b>	<b>17</b>	<b>0</b>	<b>38</b>
Illinois	0	6	0	11	0	0	46
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	1	0	0	73
Ohio	0	7	18	1	37	0	126
Wisconsin	0	0	0	0	0	0	74
<b>West North Central</b>	<b>0</b>	<b>140</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>44</b>
Iowa	0	67	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	215	0	22	0	0	55
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
<b>South Atlantic</b>	<b>11</b>	<b>36</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>5</b>
Delaware	0	111	0	0	0	0	0
Florida	0	59	0	6	0	0	0
Georgia	0	71	0	7	0	0	123
Maryland	0	51	0	1	0	0	2
North Carolina	0	82	0	8	0	0	67
South Carolina	0	0	0	42	0	0	71
Virginia	0	23	0	3	0	0	67
West Virginia	13	0	0	7	0	0	28
<b>East South Central</b>	<b>0</b>	<b>49</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>196</b>
Alabama	0	86	0	0	0	0	0
Kentucky	0	0	0	0	0	0	196
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
<b>West South Central</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>17</b>
Arkansas	0	0	0	0	0	0	53
Louisiana	0	0	0	14	0	0	18
Oklahoma	0	0	0	0	0	0	0
Texas	0	5	0	2	0	0	0
<b>Mountain</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>22</b>
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	11	0	0	55
Idaho	0	0	0	35	0	0	28
Montana	6	8	0	16	0	0	72
Nevada	0	0	0	0	0	0	63
New Mexico	0	0	0	7	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
<b>Pacific Contiguous</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>31</b>
California	0	0	0	2	0	0	47
Oregon	0	0	0	0	0	0	52
Washington	0	18	0	10	0	0	41
<b>Pacific Noncontiguous</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Alaska	64	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
<b>U.S. Total</b>	<b>1</b>	<b>5</b>	<b>12</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>6</b>

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, March 2020 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
<b>New England</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>2</b>
Connecticut	0	0	0	16	8	0	0	0
Maine	0	0	0	70	5	0	0	6
Massachusetts	0	0	0	7	5	0	1	7
New Hampshire	0	0	0	0	11	0	0	2
Rhode Island	0	0	0	28	10	0	0	17
Vermont	0	0	0	24	13	0	0	14
<b>Middle Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>
New Jersey	0	0	0	8	5	0	0	2
New York	0	0	0	9	3	0	0	1
Pennsylvania	0	0	0	25	3	0	0	1
<b>East North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>16</b>	<b>1</b>
Illinois	0	0	0	24	2	0	0	1
Indiana	0	0	0	17	3	0	0	1
Michigan	0	0	0	34	4	0	24	1
Ohio	0	0	0	9	3	0	0	1
Wisconsin	0	0	0	34	6	0	0	1
<b>West North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
Iowa	0	0	0	76	3	0	0	2
Kansas	0	0	0	71	2	0	0	2
Minnesota	0	0	0	6	3	0	0	3
Missouri	0	0	0	25	3	0	0	2
Nebraska	0	0	0	40	2	0	0	2
North Dakota	0	0	0	0	2	0	0	2
South Dakota	0	0	0	177	3	0	0	3
<b>South Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
Delaware	0	0	0	35	25	0	0	2
District of Columbia	0	0	0	73	73	0	0	73
Florida	0	0	0	5	2	0	1	3
Georgia	0	0	0	3	2	0	0	5
Maryland	0	0	0	9	6	0	0	0
North Carolina	0	0	0	2	2	0	0	4
South Carolina	0	0	0	5	6	0	0	10
Virginia	0	0	0	8	6	0	0	2
West Virginia	0	0	0	0	5	0	0	8
<b>East South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>
Alabama	0	0	0	10	10	0	0	0
Kentucky	0	0	0	186	43	0	0	23
Mississippi	0	0	0	3	3	0	0	0
Tennessee	0	0	0	13	11	0	0	11
<b>West South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
Arkansas	0	0	0	6	10	0	0	1
Louisiana	0	0	0	0	26	0	0	9
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	2	1	0	0	1
<b>Mountain</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>
Arizona	0	0	0	2	3	0	0	1
Colorado	0	0	0	6	3	0	0	3
Idaho	0	52	0	8	5	0	0	12
Montana	0	0	0	42	6	0	0	4
Nevada	0	12	0	2	6	0	0	5
New Mexico	0	0	0	7	3	0	0	3
Utah	0	34	0	5	5	0	0	5
Wyoming	0	0	0	0	6	0	0	5
<b>Pacific Contiguous</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>
California	0	5	0	1	2	0	0	1
Oregon	0	38	0	8	3	0	0	1
Washington	0	0	0	48	5	0	0	4
<b>Pacific Noncontiguous</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>9</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>4</b>
Alaska	0	0	0	0	36	0	0	48
Hawaii	0	40	0	9	13	0	0	4
<b>U.S. Total</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

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 March 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
<b>New England</b>	<b>0</b>	<b>49</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>10</b>
Connecticut	0	71	0	0	0	0	28
Maine	0	5	0	0	0	0	12
Massachusetts	0	107	0	11	0	0	22
New Hampshire	0	2,702	0	0	0	0	24
Rhode Island	0	162	0	18	0	0	0
Vermont	0	0	0	0	0	0	22
<b>Middle Atlantic</b>	<b>5</b>	<b>28</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>9</b>
New Jersey	0	70	0	3	0	0	0
New York	0	20	0	3	0	0	10
Pennsylvania	5	70	0	1	0	0	11
<b>East North Central</b>	<b>0</b>	<b>6</b>	<b>18</b>	<b>2</b>	<b>17</b>	<b>0</b>	<b>38</b>
Illinois	0	6	0	11	0	0	46
Indiana	0	0	0	0	0	0	0
Michigan	0	0	0	1	0	0	73
Ohio	0	7	18	1	37	0	126
Wisconsin	0	0	0	0	0	0	74
<b>West North Central</b>	<b>0</b>	<b>140</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>44</b>
Iowa	0	67	0	0	0	0	0
Kansas	0	0	0	0	0	0	0
Minnesota	0	215	0	22	0	0	55
Missouri	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0
<b>South Atlantic</b>	<b>11</b>	<b>36</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>5</b>
Delaware	0	111	0	0	0	0	0
Florida	0	59	0	6	0	0	0
Georgia	0	71	0	7	0	0	123
Maryland	0	51	0	1	0	0	2
North Carolina	0	82	0	8	0	0	67
South Carolina	0	0	0	42	0	0	71
Virginia	0	23	0	3	0	0	67
West Virginia	13	0	0	7	0	0	28
<b>East South Central</b>	<b>0</b>	<b>49</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>196</b>
Alabama	0	86	0	0	0	0	0
Kentucky	0	0	0	0	0	0	196
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0	0
<b>West South Central</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>17</b>
Arkansas	0	0	0	0	0	0	53
Louisiana	0	0	0	14	0	0	18
Oklahoma	0	0	0	0	0	0	0
Texas	0	5	0	2	0	0	0
<b>Mountain</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>22</b>
Arizona	0	0	0	0	0	0	0
Colorado	0	0	0	11	0	0	55
Idaho	0	0	0	35	0	0	28
Montana	6	8	0	16	0	0	72
Nevada	0	0	0	0	0	0	63
New Mexico	0	0	0	7	0	0	0
Utah	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
<b>Pacific Contiguous</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>31</b>
California	0	0	0	2	0	0	47
Oregon	0	0	0	0	0	0	52
Washington	0	18	0	10	0	0	41
<b>Pacific Noncontiguous</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Alaska	64	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0
<b>U.S. Total</b>	<b>1</b>	<b>5</b>	<b>12</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>6</b>

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 March 2020 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
<b>New England</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>2</b>
Connecticut	0	0	0	16	8	0	0	0
Maine	0	0	0	70	5	0	0	6
Massachusetts	0	0	0	7	5	0	1	7
New Hampshire	0	0	0	0	11	0	0	2
Rhode Island	0	0	0	28	10	0	0	17
Vermont	0	0	0	24	13	0	0	14
<b>Middle Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>
New Jersey	0	0	0	8	5	0	0	2
New York	0	0	0	9	3	0	0	1
Pennsylvania	0	0	0	25	3	0	0	1
<b>East North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>16</b>	<b>1</b>
Illinois	0	0	0	24	2	0	0	1
Indiana	0	0	0	17	3	0	0	1
Michigan	0	0	0	34	4	0	24	1
Ohio	0	0	0	9	3	0	0	1
Wisconsin	0	0	0	34	6	0	0	1
<b>West North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
Iowa	0	0	0	76	3	0	0	2
Kansas	0	0	0	71	2	0	0	2
Minnesota	0	0	0	6	3	0	0	3
Missouri	0	0	0	25	3	0	0	2
Nebraska	0	0	0	40	2	0	0	2
North Dakota	0	0	0	0	2	0	0	2
South Dakota	0	0	0	177	3	0	0	3
<b>South Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
Delaware	0	0	0	35	25	0	0	2
District of Columbia	0	0	0	73	73	0	0	73
Florida	0	0	0	5	2	0	1	3
Georgia	0	0	0	3	2	0	0	5
Maryland	0	0	0	9	6	0	0	0
North Carolina	0	0	0	2	2	0	0	4
South Carolina	0	0	0	5	6	0	0	10
Virginia	0	0	0	8	6	0	0	2
West Virginia	0	0	0	0	5	0	0	8
<b>East South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>
Alabama	0	0	0	10	10	0	0	0
Kentucky	0	0	0	186	43	0	0	23
Mississippi	0	0	0	3	3	0	0	0
Tennessee	0	0	0	13	11	0	0	11
<b>West South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
Arkansas	0	0	0	6	10	0	0	1
Louisiana	0	0	0	0	26	0	0	9
Oklahoma	0	0	0	0	2	0	0	1
Texas	0	0	0	2	1	0	0	1
<b>Mountain</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>
Arizona	0	0	0	2	3	0	0	1
Colorado	0	0	0	6	3	0	0	3
Idaho	0	52	0	8	5	0	0	12
Montana	0	0	0	42	6	0	0	4
Nevada	0	12	0	2	6	0	0	5
New Mexico	0	0	0	7	3	0	0	3
Utah	0	34	0	5	5	0	0	5
Wyoming	0	0	0	0	6	0	0	5
<b>Pacific Contiguous</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>
California	0	5	0	1	2	0	0	1
Oregon	0	38	0	8	3	0	0	1
Washington	0	0	0	48	5	0	0	4
<b>Pacific Noncontiguous</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>9</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>4</b>
Alaska	0	0	0	0	36	0	0	48
Hawaii	0	40	0	9	13	0	0	4
<b>U.S. Total</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

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, March 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
<b>New England</b>	0	25	0	13	0	0	0
Connecticut	0	1,114	0	20	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	102	0	20	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
<b>Middle Atlantic</b>	0	125	0	14	0	0	0
New Jersey	0	0	0	40	0	0	0
New York	0	187	0	17	0	0	0
Pennsylvania	0	0	0	0	0	0	0
<b>East North Central</b>	45	156	0	6	0	0	0
Illinois	124	1,182	0	22	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	274	0	7	0	0	0
Ohio	0	0	0	4	0	0	0
Wisconsin	0	640	0	11	0	0	0
<b>West North Central</b>	0	47	0	1	0	0	0
Iowa	0	0	0	3	0	0	0
Minnesota	0	47	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0
South Dakota	0	1,086	0	0	0	0	0
<b>South Atlantic</b>	0	1	0	10	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	57	0	0	0	0	0
Maryland	0	0	0	5	0	0	0
North Carolina	0	374	0	79	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
<b>East South Central</b>	0	0	0	22	0	0	0
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	22	0	0	0
<b>West South Central</b>	0	0	0	30	0	0	560
Arkansas	0	0	0	176	0	0	0
Louisiana	0	0	0	38	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	38	0	0	560
<b>Mountain</b>	0	847	0	10	0	0	0
Arizona	0	847	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	50	0	0	0
Utah	0	0	0	0	0	0	0
<b>Pacific Contiguous</b>	0	29	0	5	0	0	238
California	0	39	0	5	0	0	238
Oregon	0	0	0	17	0	0	0
Washington	0	0	0	0	0	0	0
<b>Pacific Noncontiguous</b>	54	7	0	0	0	0	62
Alaska	54	186	0	0	0	0	62
Hawaii	0	0	0	0	0	0	0
<b>U.S. Total</b>	25	13	0	5	0	0	48

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, March 2020 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
<b>New England</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>72</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>11</b>
Connecticut	0	0	0	105	105	0	0	20
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	99	26	0	0	18
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
<b>Middle Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>6</b>
New Jersey	0	0	0	21	9	0	0	8
New York	0	0	0	70	6	0	6	11
Pennsylvania	0	0	0	98	7	0	0	3
<b>East North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>5</b>
Illinois	0	0	0	129	93	0	0	21
Indiana	0	0	0	173	19	0	0	2
Michigan	0	0	0	165	6	0	0	6
Ohio	0	0	0	116	34	0	0	5
Wisconsin	0	0	0	108	21	0	0	10
<b>West North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>46</b>	<b>6</b>
Iowa	0	0	0	0	23	0	0	5
Kansas	0	0	0	0	142	0	0	142
Minnesota	0	0	0	0	37	0	46	14
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	163	0	0	163
South Dakota	0	0	0	0	0	0	0	1,086
<b>South Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>6</b>
Delaware	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	75	24	0	0	17
Georgia	0	0	0	151	151	0	0	112
Maryland	0	0	0	61	29	0	0	5
North Carolina	0	0	0	23	22	0	0	35
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	0	0	186	4	0	0	2
<b>East South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>113</b>	<b>113</b>	<b>0</b>	<b>0</b>	<b>22</b>
Mississippi	0	0	0	0	0	0	0	0
Tennessee	0	0	0	113	113	0	0	22
<b>West South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>27</b>
Arkansas	0	0	0	0	0	0	0	104
Louisiana	0	0	0	0	0	0	0	38
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	145	22	0	0	34
<b>Mountain</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>4</b>
Arizona	0	0	0	68	68	0	0	5
Colorado	0	0	0	54	50	0	0	42
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	30	3	0	0	2
New Mexico	0	0	0	0	291	0	0	49
Utah	0	0	0	0	0	0	0	0
<b>Pacific Contiguous</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>4</b>
California	0	0	0	19	6	0	0	4
Oregon	0	0	0	0	26	0	0	14
Washington	0	0	0	0	53	0	0	19
<b>Pacific Noncontiguous</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>
Alaska	0	0	0	0	0	0	0	36
Hawaii	0	0	0	0	0	0	0	0
<b>U.S. Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>

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 March 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
<b>New England</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>
Connecticut	0	1,114	0	20	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	0	102	0	20	0	0	0
New Hampshire	0	1	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0
<b>Middle Atlantic</b>	<b>0</b>	<b>125</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>
New Jersey	0	0	0	40	0	0	0
New York	0	187	0	17	0	0	0
Pennsylvania	0	0	0	0	0	0	0
<b>East North Central</b>	<b>45</b>	<b>156</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>
Illinois	124	1,182	0	22	0	0	0
Indiana	0	0	0	0	0	0	0
Michigan	0	274	0	7	0	0	0
Ohio	0	0	0	4	0	0	0
Wisconsin	0	640	0	11	0	0	0
<b>West North Central</b>	<b>0</b>	<b>47</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
Iowa	0	0	0	3	0	0	0
Minnesota	0	47	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0
South Dakota	0	1,086	0	0	0	0	0
<b>South Atlantic</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	57	0	0	0	0	0
Maryland	0	0	0	5	0	0	0
North Carolina	0	374	0	79	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0
<b>East South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>
Mississippi	0	0	0	0	0	0	0
Tennessee	0	0	0	22	0	0	0
<b>West South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>560</b>
Arkansas	0	0	0	176	0	0	0
Louisiana	0	0	0	38	0	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	0	0	38	0	0	560
<b>Mountain</b>	<b>0</b>	<b>847</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>
Arizona	0	847	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	50	0	0	0
Utah	0	0	0	0	0	0	0
<b>Pacific Contiguous</b>	<b>0</b>	<b>29</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>238</b>
California	0	39	0	5	0	0	238
Oregon	0	0	0	17	0	0	0
Washington	0	0	0	0	0	0	0
<b>Pacific Noncontiguous</b>	<b>54</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>62</b>
Alaska	54	186	0	0	0	0	62
Hawaii	0	0	0	0	0	0	0
<b>U.S. Total</b>	<b>25</b>	<b>13</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>48</b>

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 March 2020 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric	Pumped Storage	Other Energy Sources	All Energy Sources
<b>New England</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>72</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>
Connecticut	0	0	0	105	105	0	0	0	20
Maine	0	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	99	26	0	0	0	18
New Hampshire	0	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0	0
<b>Middle Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>6</b>	
New Jersey	0	0	0	21	9	0	0	0	8
New York	0	0	0	70	6	0	6	11	
Pennsylvania	0	0	0	98	7	0	0	0	3
<b>East North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>5</b>	
Illinois	0	0	0	129	93	0	0	0	21
Indiana	0	0	0	173	19	0	0	0	2
Michigan	0	0	0	165	6	0	0	0	6
Ohio	0	0	0	116	34	0	0	0	5
Wisconsin	0	0	0	108	21	0	0	0	10
<b>West North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>46</b>	<b>6</b>	
Iowa	0	0	0	0	23	0	0	0	5
Kansas	0	0	0	0	142	0	0	0	142
Minnesota	0	0	0	0	37	0	46	14	
Missouri	0	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	163	0	0	0	163
South Dakota	0	0	0	0	0	0	0	0	1,086
<b>South Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>6</b>	
Delaware	0	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	0	0
Florida	0	0	0	75	24	0	0	0	17
Georgia	0	0	0	151	151	0	0	0	112
Maryland	0	0	0	61	29	0	0	0	5
North Carolina	0	0	0	23	22	0	0	0	35
South Carolina	0	0	0	0	0	0	0	0	0
Virginia	0	0	0	186	4	0	0	0	2
<b>East South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>113</b>	<b>113</b>	<b>0</b>	<b>0</b>	<b>22</b>	
Mississippi	0	0	0	0	0	0	0	0	0
Tennessee	0	0	0	113	113	0	0	0	22
<b>West South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>27</b>	
Arkansas	0	0	0	0	0	0	0	0	104
Louisiana	0	0	0	0	0	0	0	0	38
Oklahoma	0	0	0	0	0	0	0	0	0
Texas	0	0	0	145	22	0	0	0	34
<b>Mountain</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>4</b>	
Arizona	0	0	0	68	68	0	0	0	5
Colorado	0	0	0	54	50	0	0	0	42
Idaho	0	0	0	0	0	0	0	0	0
Nevada	0	0	0	30	3	0	0	0	2
New Mexico	0	0	0	0	291	0	0	0	49
Utah	0	0	0	0	0	0	0	0	0
<b>Pacific Contiguous</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>4</b>	
California	0	0	0	19	6	0	0	0	4
Oregon	0	0	0	0	26	0	0	0	14
Washington	0	0	0	0	53	0	0	0	19
<b>Pacific Noncontiguous</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	
Alaska	0	0	0	0	0	0	0	0	36
Hawaii	0	0	0	0	0	0	0	0	0
<b>U.S. Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>	

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, March 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
<b>New England</b>	<b>129</b>	<b>57</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>59</b>
Connecticut	0	0	0	12	0	0	0
Maine	129	63	0	23	0	0	59
Massachusetts	0	0	0	9	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	8,691	0	38	0	0	0
<b>Middle Atlantic</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>7</b>	<b>29</b>	<b>0</b>	<b>24</b>
New Jersey	0	0	0	9	0	0	0
New York	0	8	0	6	0	0	24
Pennsylvania	0	52	0	12	41	0	0
<b>East North Central</b>	<b>8</b>	<b>35</b>	<b>0</b>	<b>5</b>	<b>14</b>	<b>0</b>	<b>38</b>
Illinois	8	0	0	14	0	0	0
Indiana	0	33	0	7	17	0	0
Michigan	79	97	0	12	0	0	128
Ohio	0	0	0	10	0	0	0
Wisconsin	28	0	0	11	0	0	40
<b>West North Central</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>
Iowa	3	0	0	7	0	0	0
Kansas	0	0	0	11	0	0	0
Minnesota	70	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	12	0	0	0	0	0	0
North Dakota	89	0	0	0	0	0	0
<b>South Atlantic</b>	<b>5</b>	<b>34</b>	<b>38</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>24</b>
Delaware	0	0	0	0	0	0	0
Florida	15	89	0	18	0	0	0
Georgia	16	56	38	26	0	0	89
Maryland	0	0	0	0	0	0	0
North Carolina	1	73	0	35	0	0	384
South Carolina	0	0	0	13	0	0	0
Virginia	0	32	0	10	0	0	0
West Virginia	0	0	0	0	0	0	24
<b>East South Central</b>	<b>0</b>	<b>34</b>	<b>0</b>	<b>12</b>	<b>92</b>	<b>0</b>	<b>0</b>
Alabama	0	60	0	24	424	0	0
Kentucky	0	0	0	8	0	0	0
Mississippi	0	0	0	34	0	0	0
Tennessee	0	0	0	4	0	0	0
<b>West South Central</b>	<b>0</b>	<b>15</b>	<b>11</b>	<b>2</b>	<b>14</b>	<b>0</b>	<b>0</b>
Arkansas	0	0	0	43	0	0	0
Louisiana	0	0	0	3	17	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	18	11	3	13	0	0
<b>Mountain</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>8</b>	<b>0</b>	<b>0</b>
Colorado	0	0	0	0	0	0	0
Idaho	179	0	0	25	0	0	0
Montana	190	0	0	70	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	31	0	0	6	8	0	0
<b>Pacific Contiguous</b>	<b>0</b>	<b>220</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>
California	0	175	0	1	3	0	0
Oregon	0	0	0	24	0	0	0
Washington	0	272	0	16	0	0	0
<b>Pacific Noncontiguous</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64</b>
Alaska	0	10	0	0	0	0	0
Hawaii	0	0	0	0	0	0	64
<b>U.S. Total</b>	<b>4</b>	<b>8</b>	<b>15</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>17</b>

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, March 2020 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
<b>New England</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>89</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>7</b>
Connecticut	0	0	0	692	692	0	0	12
Maine	0	0	0	0	11	0	0	10
Massachusetts	0	0	0	90	81	0	0	9
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	38
<b>Middle Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>7</b>
New Jersey	0	0	0	89	89	0	0	5
New York	0	0	0	107	24	0	0	7
Pennsylvania	0	0	0	87	12	0	0	12
<b>East North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>4</b>	<b>5</b>
Illinois	0	0	0	0	0	0	0	6
Indiana	0	0	0	0	24	0	0	10
Michigan	0	0	0	0	16	0	0	9
Ohio	0	0	0	0	10	0	0	6
Wisconsin	0	0	0	0	15	0	97	9
<b>West North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>3</b>
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	10
Minnesota	0	0	0	0	0	0	0	8
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	12
North Dakota	0	0	0	0	138	0	0	49
<b>South Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>107</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>3</b>
Delaware	0	0	0	0	56	0	0	0
Florida	0	0	0	141	9	0	1	6
Georgia	0	0	0	0	7	0	0	7
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	8	0	0	7
South Carolina	0	0	0	150	4	0	0	4
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	14
<b>East South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>97</b>	<b>4</b>	<b>0</b>	<b>110</b>	<b>5</b>
Alabama	0	0	0	0	6	0	0	8
Kentucky	0	0	0	0	26	0	0	16
Mississippi	0	0	0	0	7	0	0	10
Tennessee	0	0	0	97	9	0	110	4
<b>West South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>3</b>	<b>2</b>
Arkansas	0	0	0	0	14	0	0	14
Louisiana	0	0	0	0	9	0	0	3
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	16	0	8	2
<b>Mountain</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>92</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>5</b>
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	150	2	0	0	8
Montana	0	0	0	0	0	0	0	48
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	8
<b>Pacific Contiguous</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>43</b>	<b>10</b>	<b>0</b>	<b>5</b>	<b>2</b>
California	0	0	0	43	18	0	5	2
Oregon	0	0	0	0	18	0	0	15
Washington	0	0	0	0	13	0	0	11
<b>Pacific Noncontiguous</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>115</b>	<b>0</b>	<b>0</b>	<b>5</b>
Alaska	0	0	0	0	115	0	0	5
Hawaii	0	0	0	0	0	0	0	8
<b>U.S. Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>1</b>

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 March 2020**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
<b>New England</b>	<b>129</b>	<b>57</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>59</b>
Connecticut	0	0	0	12	0	0	0
Maine	129	63	0	23	0	0	59
Massachusetts	0	0	0	9	0	0	0
New Hampshire	0	0	0	0	0	0	0
Rhode Island	0	8,691	0	38	0	0	0
<b>Middle Atlantic</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>7</b>	<b>29</b>	<b>0</b>	<b>24</b>
New Jersey	0	0	0	9	0	0	0
New York	0	8	0	6	0	0	24
Pennsylvania	0	52	0	12	41	0	0
<b>East North Central</b>	<b>8</b>	<b>35</b>	<b>0</b>	<b>5</b>	<b>14</b>	<b>0</b>	<b>38</b>
Illinois	8	0	0	14	0	0	0
Indiana	0	33	0	7	17	0	0
Michigan	79	97	0	12	0	0	128
Ohio	0	0	0	10	0	0	0
Wisconsin	28	0	0	11	0	0	40
<b>West North Central</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>
Iowa	3	0	0	7	0	0	0
Kansas	0	0	0	11	0	0	0
Minnesota	70	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0
Nebraska	12	0	0	0	0	0	0
North Dakota	89	0	0	0	0	0	0
<b>South Atlantic</b>	<b>5</b>	<b>34</b>	<b>38</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>24</b>
Delaware	0	0	0	0	0	0	0
Florida	15	89	0	18	0	0	0
Georgia	16	56	38	26	0	0	89
Maryland	0	0	0	0	0	0	0
North Carolina	1	73	0	35	0	0	384
South Carolina	0	0	0	13	0	0	0
Virginia	0	32	0	10	0	0	0
West Virginia	0	0	0	0	0	0	24
<b>East South Central</b>	<b>0</b>	<b>34</b>	<b>0</b>	<b>12</b>	<b>92</b>	<b>0</b>	<b>0</b>
Alabama	0	60	0	24	424	0	0
Kentucky	0	0	0	8	0	0	0
Mississippi	0	0	0	34	0	0	0
Tennessee	0	0	0	4	0	0	0
<b>West South Central</b>	<b>0</b>	<b>15</b>	<b>11</b>	<b>2</b>	<b>14</b>	<b>0</b>	<b>0</b>
Arkansas	0	0	0	43	0	0	0
Louisiana	0	0	0	3	17	0	0
Oklahoma	0	0	0	0	0	0	0
Texas	0	18	11	3	13	0	0
<b>Mountain</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>8</b>	<b>0</b>	<b>0</b>
Colorado	0	0	0	0	0	0	0
Idaho	179	0	0	25	0	0	0
Montana	190	0	0	70	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	31	0	0	6	8	0	0
<b>Pacific Contiguous</b>	<b>0</b>	<b>220</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>
California	0	175	0	1	3	0	0
Oregon	0	0	0	24	0	0	0
Washington	0	272	0	16	0	0	0
<b>Pacific Noncontiguous</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64</b>
Alaska	0	10	0	0	0	0	0
Hawaii	0	0	0	0	0	0	64
<b>U.S. Total</b>	<b>4</b>	<b>8</b>	<b>15</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>17</b>

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 March 2020 (Continued)**

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
<b>New England</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>89</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>7</b>
Connecticut	0	0	0	692	692	0	0	12
Maine	0	0	0	0	11	0	0	10
Massachusetts	0	0	0	90	81	0	0	9
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	38
<b>Middle Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>7</b>
New Jersey	0	0	0	89	89	0	0	5
New York	0	0	0	107	24	0	0	7
Pennsylvania	0	0	0	87	12	0	0	12
<b>East North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>4</b>	<b>5</b>
Illinois	0	0	0	0	0	0	0	6
Indiana	0	0	0	0	24	0	0	10
Michigan	0	0	0	0	16	0	0	9
Ohio	0	0	0	0	10	0	0	6
Wisconsin	0	0	0	0	15	0	97	9
<b>West North Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>3</b>
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	10
Minnesota	0	0	0	0	0	0	0	8
Missouri	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	12
North Dakota	0	0	0	0	138	0	0	49
<b>South Atlantic</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>107</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>3</b>
Delaware	0	0	0	0	56	0	0	0
Florida	0	0	0	141	9	0	1	6
Georgia	0	0	0	0	7	0	0	7
Maryland	0	0	0	0	0	0	0	0
North Carolina	0	0	0	0	8	0	0	7
South Carolina	0	0	0	150	4	0	0	4
Virginia	0	0	0	0	0	0	0	3
West Virginia	0	0	0	0	0	0	0	14
<b>East South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>97</b>	<b>4</b>	<b>0</b>	<b>110</b>	<b>5</b>
Alabama	0	0	0	0	6	0	0	8
Kentucky	0	0	0	0	26	0	0	16
Mississippi	0	0	0	0	7	0	0	10
Tennessee	0	0	0	97	9	0	110	4
<b>West South Central</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>3</b>	<b>2</b>
Arkansas	0	0	0	0	14	0	0	14
Louisiana	0	0	0	0	9	0	0	3
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	0	16	0	8	2
<b>Mountain</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>92</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>5</b>
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	150	2	0	0	8
Montana	0	0	0	0	0	0	0	48
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	8
<b>Pacific Contiguous</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>43</b>	<b>10</b>	<b>0</b>	<b>5</b>	<b>2</b>
California	0	0	0	43	18	0	5	2
Oregon	0	0	0	0	18	0	0	15
Washington	0	0	0	0	13	0	0	11
<b>Pacific Noncontiguous</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>115</b>	<b>0</b>	<b>0</b>	<b>5</b>
Alaska	0	0	0	0	115	0	0	5
Hawaii	0	0	0	0	0	0	0	8
<b>U.S. Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>1</b>

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, March 2020**

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
<b>New England</b>	0	1	3	0	1
Connecticut	1	1	3	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	6	0	1
New Hampshire	1	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	3	7	8	0	4
<b>Middle Atlantic</b>	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
<b>East North Central</b>	0	1	1	0	1
Illinois	1	1	1	0	1
Indiana	2	3	2	0	1
Michigan	1	2	4	0	2
Ohio	1	1	1	0	1
Wisconsin	1	4	8	0	3
<b>West North Central</b>	1	2	4	0	2
Iowa	2	9	8	0	4
Kansas	2	2	10	0	3
Minnesota	2	5	9	0	4
Missouri	2	3	7	0	2
Nebraska	2	9	13	0	5
North Dakota	2	5	10	0	5
South Dakota	3	11	17	0	6
<b>South Atlantic</b>	0	0	2	0	0
Delaware	2	2	6	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	7	0	1
Georgia	1	1	5	0	1
Maryland	1	1	2	0	0
North Carolina	1	1	4	0	1
South Carolina	1	1	4	0	2
Virginia	1	0	6	0	1
West Virginia	0	1	0	0	0
<b>East South Central</b>	1	2	2	0	1
Alabama	1	1	3	0	2
Kentucky	2	4	3	0	2
Mississippi	2	2	6	0	3
Tennessee	1	4	5	0	2
<b>West South Central</b>	1	1	2	0	1
Arkansas	2	2	6	0	2
Louisiana	1	1	2	0	1
Oklahoma	2	1	5	0	2
Texas	1	1	2	0	1
<b>Mountain</b>	1	2	2	0	1
Arizona	1	3	5	0	1
Colorado	2	4	7	0	3
Idaho	1	6	8	0	3
Montana	2	9	7	0	4
Nevada	1	2	1	0	1
New Mexico	3	7	8	0	4
Utah	2	5	3	0	2
Wyoming	2	9	6	0	4
<b>Pacific Contiguous</b>	0	1	3	0	1
California	0	1	2	0	1
Oregon	1	5	12	0	3
Washington	1	5	10	0	3
<b>Pacific Noncontiguous</b>	1	6	6	0	3
Alaska	2	11	21	0	7
Hawaii	0	0	0	0	0
<b>U.S. Total</b>	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 March 2020**

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

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, March 2020**

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
<b>New England</b>	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	7	5	0	3
<b>Middle Atlantic</b>	0	0	0	0	0
New Jersey	1	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	0	0	0
<b>East North Central</b>	1	1	2	0	1
Illinois	1	1	1	0	1
Indiana	2	4	2	0	1
Michigan	1	2	6	0	1
Ohio	1	1	1	0	1
Wisconsin	2	3	10	0	3
<b>West North Central</b>	1	2	5	0	2
Iowa	3	7	10	0	4
Kansas	2	2	8	0	2
Minnesota	2	4	12	0	3
Missouri	2	4	6	0	2
Nebraska	3	8	15	0	5
North Dakota	3	4	10	0	4
South Dakota	4	8	20	0	5
<b>South Atlantic</b>	0	1	2	0	0
Delaware	2	3	7	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	6	0	1
Georgia	1	1	5	0	1
Maryland	1	1	2	0	0
North Carolina	1	1	4	0	1
South Carolina	1	2	4	0	1
Virginia	1	1	5	0	1
West Virginia	1	2	0	0	0
<b>East South Central</b>	1	2	2	0	1
Alabama	1	2	4	0	1
Kentucky	3	5	3	0	2
Mississippi	2	3	6	0	2
Tennessee	2	4	5	0	2
<b>West South Central</b>	1	1	2	0	1
Arkansas	2	3	5	0	2
Louisiana	1	2	2	0	1
Oklahoma	2	3	6	0	2
Texas	1	1	2	0	1
<b>Mountain</b>	1	2	3	0	1
Arizona	2	3	8	0	2
Colorado	3	5	9	0	3
Idaho	2	5	10	0	3
Montana	3	6	11	0	4
Nevada	1	3	2	0	1
New Mexico	6	8	13	0	5
Utah	4	6	5	0	3
Wyoming	4	7	7	0	4
<b>Pacific Contiguous</b>	0	1	3	0	1
California	0	1	2	0	0
Oregon	2	3	15	0	3
Washington	1	3	12	0	2
<b>Pacific Noncontiguous</b>	1	3	4	0	2
Alaska	3	8	20	0	5
Hawaii	0	0	0	0	0
<b>U.S. Total</b>	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 March 2020**

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
<b>New England</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>
Connecticut	0	1	1	0	0
Maine	1	1	2	0	1
Massachusetts	1	1	3	0	1
New Hampshire	1	3	6	0	2
Rhode Island	0	0	0	0	0
Vermont	3	5	4	0	2
<b>Middle Atlantic</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	1	1	0	0
<b>East North Central</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>
Illinois	1	1	1	0	1
Indiana	2	3	1	0	1
Michigan	1	1	5	0	1
Ohio	1	1	1	0	1
Wisconsin	1	3	8	0	2
<b>West North Central</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>1</b>
Iowa	2	5	8	0	3
Kansas	2	2	6	0	2
Minnesota	2	4	9	0	2
Missouri	2	3	5	0	2
Nebraska	2	6	13	0	4
North Dakota	2	3	8	0	3
South Dakota	3	7	15	0	4
<b>South Atlantic</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>
Delaware	2	3	6	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	5	0	1
Georgia	1	1	4	0	1
Maryland	1	1	2	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	2	2	5	1	1
West Virginia	0	1	0	0	0
<b>East South Central</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>1</b>
Alabama	1	2	3	0	1
Kentucky	2	4	3	0	2
Mississippi	2	2	5	0	2
Tennessee	2	3	4	0	2
<b>West South Central</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>
Arkansas	2	3	4	0	1
Louisiana	1	1	2	0	1
Oklahoma	2	2	5	0	2
Texas	1	1	2	0	1
<b>Mountain</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>1</b>
Arizona	1	3	6	0	1
Colorado	3	4	8	0	3
Idaho	1	4	8	0	2
Montana	2	5	11	0	3
Nevada	1	2	2	0	1
New Mexico	4	7	11	0	4
Utah	3	5	4	0	2
Wyoming	3	6	6	0	3
<b>Pacific Contiguous</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>
California	0	1	2	0	0
Oregon	1	3	12	0	2
Washington	1	3	10	0	2
<b>Pacific Noncontiguous</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>1</b>
Alaska	2	6	15	0	4
Hawaii	0	0	0	0	0
<b>U.S. Total</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>

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

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

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

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
<b>New England</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
Connecticut	0	1	2	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	4	0	1
New Hampshire	1	0	0	0	0
Rhode Island	0	0	0	0	0
Vermont	3	6	5	0	3
<b>Middle Atlantic</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	1	0	0
<b>East North Central</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>
Illinois	1	1	1	0	0
Indiana	2	3	2	0	1
Michigan	1	2	4	0	1
Ohio	1	1	1	0	0
Wisconsin	1	3	7	0	2
<b>West North Central</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>1</b>
Iowa	2	6	7	0	3
Kansas	2	2	7	0	2
Minnesota	2	4	9	0	3
Missouri	2	3	5	0	2
Nebraska	2	7	12	0	4
North Dakota	2	4	8	0	4
South Dakota	3	8	15	0	4
<b>South Atlantic</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>
Delaware	2	2	5	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	5	0	1
Georgia	1	1	4	0	1
Maryland	0	0	2	0	0
North Carolina	1	1	4	0	1
South Carolina	1	1	3	0	1
Virginia	2	2	5	1	1
West Virginia	0	1	0	0	0
<b>East South Central</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>1</b>
Alabama	1	2	3	0	1
Kentucky	2	4	3	0	2
Mississippi	2	2	5	0	2
Tennessee	2	3	4	0	2
<b>West South Central</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>
Arkansas	2	2	4	0	2
Louisiana	1	1	2	0	1
Oklahoma	2	2	5	0	2
Texas	1	1	2	0	1
<b>Mountain</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>1</b>
Arizona	1	2	5	0	1
Colorado	3	4	7	0	3
Idaho	1	4	7	0	2
Montana	2	6	8	0	3
Nevada	1	2	2	0	1
New Mexico	4	7	10	0	4
Utah	3	5	4	0	2
Wyoming	3	7	5	0	3
<b>Pacific Contiguous</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>1</b>
California	0	1	2	0	0
Oregon	1	4	11	0	3
Washington	1	4	9	0	2
<b>Pacific Noncontiguous</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>2</b>
Alaska	2	8	16	0	5
Hawaii	0	0	0	0	0
<b>U.S. Total</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>

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

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

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2020	1	..	..	. Hours, . Minutes	Entergy - Transmission 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	..	..	. Hours, . Minutes	Western Area Power Administration - Upper Great Plains Region	MRO	North Dakota: Burleigh County;	Unexpected transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	75	0
2020	1	..	..	. Hours, . Minutes	Entergy Corp	SPP RE	Arkansas: Texas;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		68138
2020	1	..	..	. Hours, . Minutes	Entergy - Transmission Operations Engineering	SPP RE	Arkansas: Cross County;	Unexpected transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption	22	7541
2020	1	..	..	. Hours, . Minutes	California Department of Water Resources	WECC	California:	Fuel supply emergencies that could impact electric power system adequacy or reliability.-Fuel Supply Deficiency	0	0
2020	1	..	..	. Hours, . Minutes	Entergy Transmission Control Center - South	SPP RE	Arkansas:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-System Operations		
2020	1	..	..	. Hours, . Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		66475
2020	1	..	..	. Hours, . Minutes	Southern Company	SERC	Alabama: Georgia: Mississippi:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	219	30715
2020	1	..	..	. Hours, . Minutes	Tennessee Valley Authority	SERC	Tennessee:	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather	4	
2020	1	..	..	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California: Humboldt County;	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system.-Severe Weather/Transmission Interruption	87	67864
2020	2	..	..	. Hours, . Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	New York:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		7500
2020	2	..	..	. Hours, . Minutes	Duke Energy Carolinas	SERC	North Carolina: South Carolina;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption		89500
2020	2	..	..	. Hours, . Minutes	Exelon Corporation/PECO	RF	Pennsylvania:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption		52000
2020	2	..	..	. Hours, . Minutes	ISO New England	NPCC	Connecticut: Maine: Massachusetts: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		123359
2020	2	..	..	. Hours, . Minutes	Duke Energy Progress	SERC	North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Distribution Interruption		284256
2020	2	..	..	. Hours, . Minutes	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
2020	2	..	..	. Hours, . Minutes	Portland General Electric Co	WECC	Oregon: Clackamas County; 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;	Unexpected transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption		0
2020	2	..	..	. Hours, . Minutes	Pacific Gas & Electric Co	WECC		Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	500	145000
2020	2	..	..	. Hours, . Minutes	Dominion Energy VA	SERC	Virginia: North Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		87000

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

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2020	3	.	.	. Hours, . Minutes	Southern Company	SERC	Alabama: Georgia:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	412	57744
2020	3	.	.	. Hours, . Minutes	FirstEnergy Corp	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	19	11964
2020	3	.	.	. Hours, . Minutes	ISO New England	NPCC	Connecticut: Massachusetts: Maine: New Hampshire: Rhode Island: Vermont:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		51026
2020	3	.	.	. Hours, . Minutes	Pacificorp	WECC	Utah:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Natural Disaster	237	73000
2020	3	.	.	. Hours, . Minutes	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	.	.	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	California:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather	165	110800
2020	3	.	.	. Hours, . Minutes	PECO Energy Co	RF	Pennsylvania:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	40	15864
2020	3	.	.	. Hours, . Minutes	Somerset Operating Company	NPCC	Western NY	Fuel supply emergencies that could impact electric power system adequacy or reliability.- Fuel Supply Deficiency	675	
2020	3	.	.	. Hours, . Minutes	Entergy - Transmission Operations Engineering	SERC	Mississippi: 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

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

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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

Table B.2 Major Disturbances and Unusual Occurrences, 2019

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

Table B.2 Major Disturbances and Unusual Occurrences, 2019

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2019	8	08/05/2019 5:23 PM	08/06/2019 12:02 AM	6 Hours, 39 Minutes	Bonneville Power Administration	WECC	Oregon: Umatilla County;	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	66	
2019	8	08/08/2019 4:16 PM	08/08/2019 10:41 PM	6 Hours, 25 Minutes	American Electric Power - (RFC Reliability Region)	RF	Ohio:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Severe Weather/Transmission Interruption		5600
2019	8	08/13/2019 10:00 AM	08/13/2019 11:00 AM	1 Hours, 0 Minutes	Rio Bravo Rocklin	WECC	California: Placer County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident.-Vandalism	0	0
2019	8	08/13/2019 3:10 PM	08/13/2019 5:30 PM	2 Hours, 20 Minutes	ERCOT	TRE	Texas: Williamson County;	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- Severe Weather		
2019	8	08/15/2019 8:30 AM	. .	. Hours, . Minutes	Upstate New York Power Producers	NPCC	New York: Tompkins County;	Fuel supply emergencies that could impact electric power system adequacy or reliability.- Fuel Supply Deficiency	150	
2019	8	08/15/2019 3:11 PM	08/15/2019 6:00 PM	2 Hours, 49 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- Severe Weather		
2019	8	08/15/2019 11:03 PM	08/16/2019 12:37 AM	1 Hours, 34 Minutes	Pacific Gas & Electric Co	WECC	California: Marin County;	Loss of electric service to more than 50,000 customers for 1 hour or more.-Distribution Interruption	80	61318
2019	8	08/18/2019 3:59 PM	08/18/2019 11:00 PM	7 Hours, 1 Minutes	Southwest Power Pool, Inc.	SPP RE	Louisiana: Texas:	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.-Transmission Interruption	271	86373
2019	8	08/18/2019 4:30 PM	08/18/2019 10:00 PM	5 Hours, 30 Minutes	East Texas Electric Coop, Inc	TRE	Texas:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Transmission Interruption/Distribution Interruption	259	61000
2019	8	08/18/2019 4:47 PM	08/18/2019 11:00 PM	6 Hours, 13 Minutes	American Electric Power - (SPP Reliability Region)	TRE	Texas:	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident.-Distribution Interruption	752	86373
2019	8	08/26/2019 9:09 AM	08/26/2019 1:34 PM	4 Hours, 25 Minutes	Great River Energy	MRO	North Dakota:	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).-Transmission Interruption	0	0
2019	8	08/26/2019 7:00 PM	08/27/2019 3:00 AM	8 Hours, 0 Minutes	Southwest Power Pool, Inc.	SPP RE	Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather/Transmission Interruption		95000
2019	8	08/26/2019 7:00 PM	08/29/2019 1:00 PM	66 Hours, 0 Minutes	Oklahoma Gas & Electric Co	SPP RE	Oklahoma:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		103779
2019	9	09/04/2019 2:30 PM	09/06/2019 6:00 PM	51 Hours, 30 Minutes	ERCOT	TRE	Texas:	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.- Severe Weather		
2019	9	09/05/2019 4:15 AM	09/05/2019 3:17 PM	11 Hours, 2 Minutes	Dominion Energy South Carolina	SERC	South Carolina:	Loss of electric service to more than 50,000 customers for 1 hour or more.-Severe Weather		172278
2019	9	09/05/2019 10:00 PM	09/06/2019 12:00 PM	14 Hours, 0 Minutes	North Carolina 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, Pandura 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**

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### **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 Inference<sup>16</sup>," on the EIA website. Additional references can be found on the InterStat website (<http://interstat.statjournals.net/>). The basis for the current methodology involves a 'borrowing of strength' technique for small domains.

## Data revision procedure

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

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

## Data sources for Electric Power Monthly

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

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

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

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

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

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

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

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

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

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

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 estimates<sup>1</sup>.

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 combinedcycle)
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 bypipeline)
BT	Turbines Used in a Binary Cycle (including those used for geothermalapplications)
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)
	DFO	Distillate Fuel Oil (including diesel, No. 1, No. 2, and No. 4 fuel oils)
Petroleum Products	JF	Jet Fuel
	KER	Kerosene
	PC	Petroleum Coke
	PG	Gaseous Propane
	RFO	Residual Fuel Oil (including No. 5, and No. 6 fuel oils, and bunker C fuel oil)
	SG	Synthesis Gas from Petroleum Coke
	WO	Waste/Other Oil (including crude oil, liquid butane, liquid propane, naphtha, oil waste, re-refined motor oil, sludge oil, tar oil, or other petroleum-based liquid wastes)
Natural Gas and Other Gases	BFG	Blast Furnace Gas
	NG	Natural Gas
	OG	Other Gas
Nuclear	NUC	Nuclear (including Uranium, Plutonium, and Thorium)
Hydroelectric Conventional	WAT	Water at a Conventional
	(Prime Mover = HY)	Hydroelectric Turbine, and water used in Wave Buoy Hydrokinetic Technology, Current Hydrokinetic Technology, and Tidal Hydrokinetic Technology
	WAT	Pumping Energy for Reversible (Pumped Storage) Hydroelectric
Wood and Wood-Derived Fuels	(Prime Mover = PS)	Turbine
	WDS	Wood/Wood Waste Solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood wastesolids)
	WDL	Wood Waste Liquids (excluding Black Liquor but including red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids)
	BLQ	Black Liquor
	AB	Agricultural By-Products
	MSW	Municipal Solid Waste
	OBG	Other Biomass Gas (including digester gas, methane, and other biomass gases)
Other Biomass	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
	WH	Waste heat not directly attributed to a fuel source
Other Energy Sources	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 entities<sup>14</sup>. 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<sup>15</sup>. 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
<b>Prime Movers:</b>
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
<b>Environmental Equipment:</b>
Flue Gas Desulfurization - 0.97
Flue Gas Particulate 0.99
All Others - 0.97

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

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

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

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

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

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

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

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

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

**Methodology to estimate biogenic and non-biogenic municipal solid waste<sup>2</sup>:** 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).<sup>3</sup>

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 kilowatthour.

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

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

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

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

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

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

**Issues within historical data series:**

*Receipts and cost and quality of fossil fuels*

Values for receipts of natural gas for 2001 forward do not include blast furnace gas or other gas.

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

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

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

*Generation and consumption*

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

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

## Average Capacity Factors

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

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

$$\text{CapacityFactor} = \left| \frac{\sum_{x,m} \text{Generation}_{x,m}}{\sum_{x,m} \text{Capacity}_{x,m} * \text{AvailableTime}_{x,m}} \right|$$

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.<sup>1</sup>

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  $i^{\text{th}}$  utility's 2013 (or the last published year) solar PV capacity

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

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

$\beta_1$  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

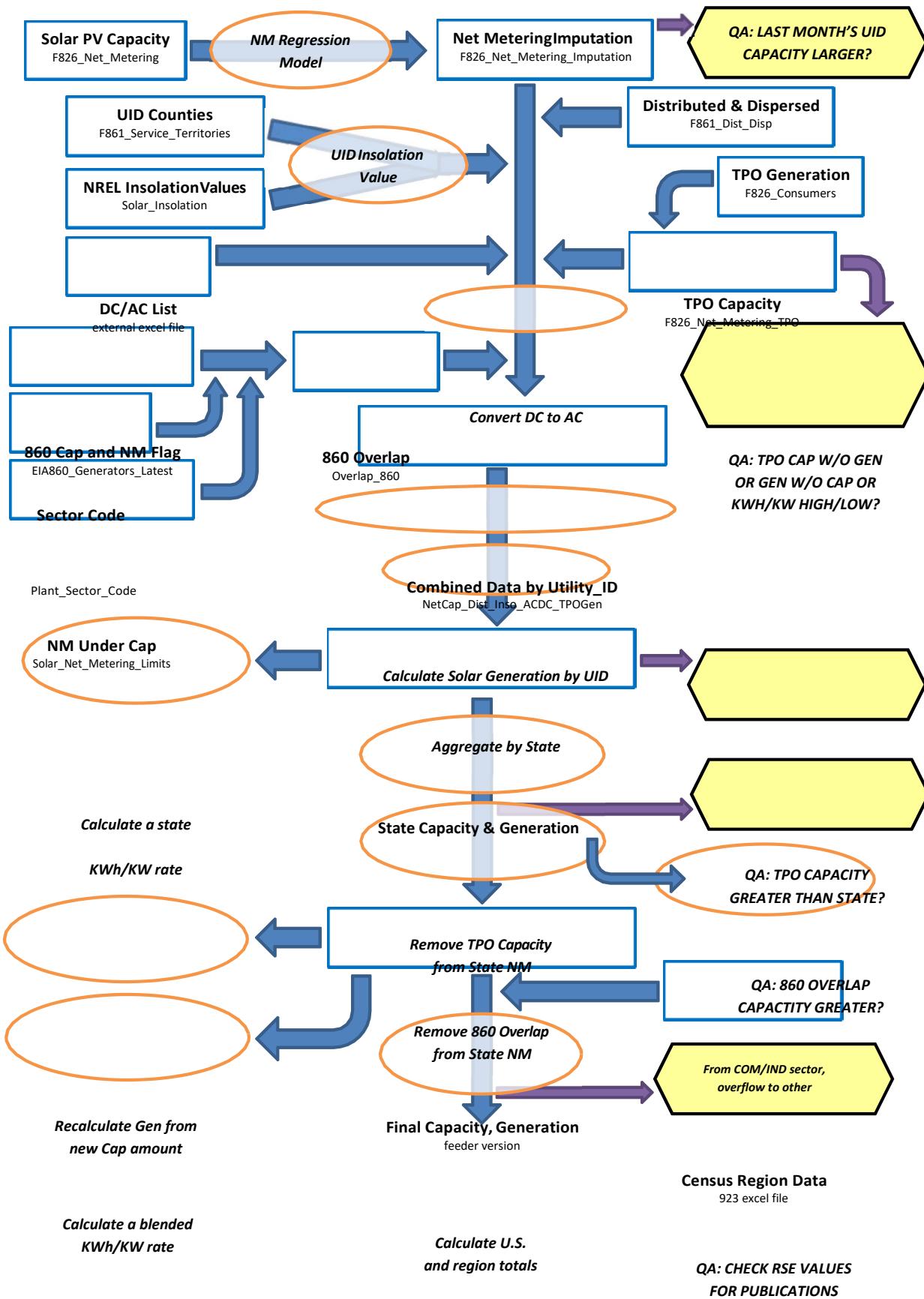
### TMY3 (1991-2005) Weather Stations by MSA

<b>Site</b>	<b>Weather Location</b>	<b>MSA</b>
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





<sup>1</sup>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/>.

<sup>2</sup>See the following sources: Bahillo, A. et al. Journal of Energy Resources Technology, “NO<sub>x</sub> and N<sub>2</sub>O 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.

<sup>3</sup>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, March 2020**

Census Division and State	Coal (Million Btu per Ton)	Petroleum Liquids (Million Btu per Barrel)	Petroleum Coke (Million Btu per Ton)	Natural Gas (Million Btu per Thousand Cubic Feet)
New England	25.65	6.07	--	1.03
Connecticut	--	5.80	--	1.03
Maine	24.80	6.25	--	1.04
Massachusetts	--	--	--	1.03
New Hampshire	25.80	5.70	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	20.75	5.98	--	1.04
New Jersey	25.90	--	--	1.03
New York	--	6.28	--	1.03
Pennsylvania	20.56	5.96	--	1.04
East North Central	20.54	5.78	27.54	1.05
Illinois	17.65	5.80	--	1.01
Indiana	22.13	5.74	--	1.06
Michigan	19.43	5.83	27.55	1.06
Ohio	24.93	5.78	--	1.06
Wisconsin	17.89	5.88	27.49	1.03
West North Central	16.57	5.83	--	1.06
Iowa	17.73	5.79	--	1.09
Kansas	17.13	5.79	--	1.01
Minnesota	17.95	5.84	--	1.09
Missouri	17.66	5.81	--	1.04
Nebraska	17.08	5.75	--	1.06
North Dakota	13.08	5.87	--	1.00
South Dakota	16.51	6.00	--	--
South Atlantic	23.87	5.89	--	1.03
Delaware	--	--	--	1.04
District of Columbia	--	--	--	--
Florida	24.06	5.80	--	1.03
Georgia	20.76	5.93	--	1.03
Maryland	23.92	5.88	--	1.04
North Carolina	24.77	5.80	--	1.03
South Carolina	24.56	6.02	--	1.03
Virginia	20.32	6.15	--	1.05
West Virginia	24.64	5.78	--	1.08
East South Central	20.42	5.80	--	1.03
Alabama	18.11	5.50	--	1.03
Kentucky	22.57	5.83	--	1.03
Mississippi	11.73	5.83	--	1.03
Tennessee	23.38	5.78	--	1.01
West South Central	15.98	5.92	28.76	1.02
Arkansas	17.64	5.89	--	1.03
Louisiana	17.72	--	28.76	1.03
Oklahoma	17.21	6.00	--	1.03
Texas	15.51	5.83	--	1.02
Mountain	18.62	5.75	--	1.05
Arizona	18.13	5.72	--	1.03
Colorado	18.65	5.84	--	1.10
Idaho	--	--	--	1.00
Montana	16.72	--	--	1.04
Nevada	19.23	5.81	--	1.05
New Mexico	18.38	5.66	--	1.03
Utah	21.65	5.78	--	1.05
Wyoming	17.45	5.82	--	1.05
Pacific Contiguous	17.85	--	--	1.04
California	22.81	--	--	1.03
Oregon	17.37	--	--	1.05
Washington	16.68	--	--	1.09
Pacific Noncontiguous	17.41	6.13	--	1.00
Alaska	14.54	5.60	--	1.00
Hawaii	19.21	6.13	--	--
U.S. Total	18.99	6.04	28.42	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
<b>Net Generation</b>			
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%
<b>Total</b>	<b>0.08%</b>	<b>0.56%</b>	<b>0.29%</b>
<b>Consumption of Fossil Fuels for Electricity Generation</b>			
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%
<b>Fuel Stocks for Electric Power Sector</b>			
Coal	0.72%	0.18%	0.09%
Petroleum Liquids	5.25%	2.10%	1.22%
Petroleum Coke	0.27%	14.42%	2.29%
<b>Retail Sales</b>			
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%
<b>Total</b>	<b>1.40%</b>	<b>1.12%</b>	<b>1.53%</b>
<b>Revenue</b>			
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%
<b>Total</b>	<b>1.34%</b>	<b>0.57%</b>	<b>1.04%</b>
<b>Average Retail Price</b>			
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%
<b>Total</b>	<b>0.10%</b>	<b>0.53%</b>	<b>0.48%</b>
<b>Receipt of Fossil Fuels</b>			
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%
<b>Cost of Fossil Fuels</b>			
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
<b>Net Generation (Thousand MWh)</b>									
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	1,468,932	0.06%
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%
<b>Total</b>	<b>4,079,079</b>	<b>4,076,675</b>	<b>-0.06%</b>	<b>4,014,804</b>	<b>4,034,271</b>	<b>0.48%</b>	<b>4,177,810</b>	<b>4,178,077</b>	<b>0.01%</b>
<b>Consumption of Fossil Fuels for Electricity Generation</b>									
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	10,831,757	-0.22%
<b>Fuel Stocks for Electric Power Sector</b>									
Coal (1,000 tons)	163,946	162,009	-1.18%	137,155	137,687	0.39%	102,786	103,043	0.25%
Petroleum Liquids (1,000 barrels)	30,880	30,593	-0.93%	28,723	28,089	-2.21%	25,082	26,284	4.79%
Petroleum Coke (1,000 tons)	872	845	-3.10%	1,113	864	-22.42%	541	539	-0.27%
<b>Retail Sales (Million kWh)</b>									
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%
<b>Total</b>	<b>3,710,779</b>	<b>3,762,462</b>	<b>1.39%</b>	<b>3,681,995</b>	<b>3,723,356</b>	<b>1.12%</b>	<b>3,801,928</b>	<b>3,859,185</b>	<b>1.51%</b>
<b>Revenue (Million Dollars)</b>									
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%
<b>Total</b>	<b>381,435</b>	<b>386,509</b>	<b>1.33%</b>	<b>388,089</b>	<b>390,322</b>	<b>0.58%</b>	<b>402,283</b>	<b>406,420</b>	<b>1.03%</b>
<b>Average Retail Price (Cents/kWh)</b>									
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%
<b>Total</b>	<b>10.28</b>	<b>10.27</b>	<b>-0.06%</b>	<b>10.54</b>	<b>10.48</b>	<b>-0.54%</b>	<b>10.58</b>	<b>10.53</b>	<b>-0.47%</b>
<b>Receipt of Fossil Fuels</b>									
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%
<b>Cost of Fossil Fuels (Dollars per Million Btu)</b>									
Coal (1,000 tons)	2.12	2.11	-0.15%	2.08	2.06	-0.87%	2.06	2.06	-0.22%
Petroleum Liquids (1,000 barrels)	9.36	9.39	0.28%	11.82	11.86	0.36%	14.24	14.40	1.16%
Petroleum Coke (1,000 tons)	1.65	1.65	0.15%	2.13	2.13	0.00%	2.54	2.54	0.00%
Natural Gas (1,000 Mcf)	2.88	2.87	-0.06%	3.39	3.37	-0.55%	3.55	3.55	0.03%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.

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

Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.

Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.

Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

Fuel Stocks are end-of-year values.

See technical notes (<http://www.eia.gov/cneaf/electricity/epm/appenc.pdf>) for additional information on the Commercial, Industrial and Transportation sectors.

Cost of Fossil Fuels represent weighted values.

Notes: The average revenue per kilowatthour is calculated by dividing revenue by sales. Totals may not equal sum of components because of independent rounding.

Percent changes refer to the difference between the preliminary data published in the Electric Power Monthly (EPM) and the final data published in the EPM. Values for 2018 are Final.

Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report'; Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report'; Form EIA-920 'Combined Heat and Power Plant Report'; and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

**Table C.4. Unit of Measure Equivalents for Electricity**

Unit	Equivalent
Kilowatt (kW)	1,000 (One Thousand) Watts
Megawatt (MW)	1,000,000 (One Million) Watts
Gigawatt (GW)	1,000,000,000 (One Billion) Watts
Terawatt (TW)	1,000,000,000,000 (One Trillion) Watts
Gigawatt	1,000,000 (One Million) Kilowatts
Thousand Gigawatts	1,000,000,000 (One Billion) Kilowatts
Kilowatthours (kWh)	1,000 (One Thousand) Watthours
Megawatthours (MWh)	1,000,000 (One Million) Watthours
Gigawatthours (GWh)	1,000,000,000 (One Billion) Watthours
Terawatthours (TWh)	1,000,000,000,000 (One Trillion) Watthours
Gigawatthours	1,000,000 (One Million) Kilowatthours
Thousand Gigawatthours	1,000,000,000 (One Billion Kilowatthours

Source: U.S. Energy Information Administration

## Glossary

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**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 though April 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

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

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

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

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

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

**Other generation:** Electricity originating from these sources: manufactured, supplemental gaseous fuel, propane, and waste gasses, excluding natural gas; biomass; geothermal; wind; solar thermal; photovoltaic; synthetic fuel; purchased steam; and waste oil energy sources.

**Percent change:** The relative change in a quantity over a specified time period. It is calculated as follows: the current value has the previous value subtracted from it; this new number is divided by the absolute value of the previous value; then this new number is multiplied by 100.

**Petroleum:** A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

**Petroleum coke:** See Coke (petroleum).

**Photovoltaic energy:** Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

**Plant:** A term commonly used either as a synonym for an industrial establishment or a generation facility or to refer to a particular process within an establishment.

**Power:** The rate at which energy is transferred. Electrical energy is usually measured in watts. Also used for a measurement of capacity.

**Power production plant:** All the land and land rights, structures and improvements, boiler or reactor vessel equipment, engines and engine-driven generator, turbo generator units, accessory electric equipment, and miscellaneous power plant equipment are grouped together for each individual facility.

**Production (electric):** Act or process of producing electric energy from other forms of energy; also, the amount of electric energy expressed in watthours (Wh).

**Propane:** A normally gaseous straight-chain hydrocarbon, (C<sub>3</sub>H<sub>8</sub>). It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products covered by Gas Processors Association Specifications for commercial propane and HD-5 propane and ASTM Specification D 1835.

**Public street and highway lighting service:** Includes electricity supplied and services rendered for the purpose of lighting streets, highways, parks and other public places; or for traffic or other signal system service, for municipalities, or other divisions or agencies of State or Federal governments.

**Railroad and railway electric service:** Electricity supplied to railroads and interurban and street railways, for general railroad use, including the propulsion of cars or locomotives, where such electricity is supplied under separate and distinct rate schedules.

**Receipts:** Purchases of fuel.

**Relative standard error:** The standard deviation of a distribution divided by the arithmetic mean, sometimes multiplied by 100. It is used for the purpose of comparing the variabilities of frequency distributions but is sensitive to errors in the means.

**Residential:** An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

**Residual fuel oil:** A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government

service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

**Retail:** Sales covering electrical energy supplied for residential, commercial, and industrial end-use purposes. Other small classes, such as agriculture and street lighting, also are included in this category.

**Revenues:** The total amount of money received by a firm from sales of its products and/or services, gains from the sales or exchange of assets, interest and dividends earned on investments, and other increases in the owner's equity except those arising from capital adjustments.

**Sales:** The transfer of title to an energy commodity from a seller to a buyer for a price or the quantity transferred during a specified period.

**Service classifications (sectors):** Consumers grouped by similar characteristics in order to be identified for the purpose of setting a common rate for electric service. Usually classified into groups identified as residential, commercial, industrial and other.

**Service to public authorities:** Public authority service includes electricity supplied and services rendered to municipalities or divisions or agencies of State and Federal governments, under special contracts or agreements or service classifications applicable only to public authorities.

**Solar energy:** The radiant energy of the sun that can be converted into other forms of energy, such as heat or electricity. Electricity produced from solar energy heats a medium that powers an electricity-generating device.

**State power authority:** A nonprofit utility owned and operated by a state government agency, primarily involved in the generation, marketing, and/or transmission of wholesale electric power.

**Steam-electric power plant (conventional):** A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

**Stocks of fuel:** A supply of fuel accumulated for future use. This includes coal and fuel oil stocks at the plant site, in coal cars, tanks, or barges at the plant site, or in separate storage sites.

**Subbituminous coal:** A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

**Sulfur:** A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is

currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

**Sulfur content:** The amount of sulfur contained in the fuel (except gas) in terms of percent by weight.

**Supplemental gaseous fuel supplies:** Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

**Synthetic fuel:** A gaseous, liquid, or solid fuel that does not occur naturally. Synfuels can be made from coal (coal gasification or coal liquefaction), petroleum products, oil shale, tar sands, or plant products. Among the synfuels are various fuel gases, including but not restricted to substitute natural gas, liquid fuels for engines (e.g., gasoline, diesel fuel, and alcohol fuels) and burner fuels (e.g., fuel heating oils).

**Terrawatt:** One trillion watts.

**Terrawatthour:** One trillion kilowatthours.

**Ton:** A unit of weight equal to 2,000 pounds.

**Turbine:** A machine for generating rotary mechanical power from the energy of a stream of fluid (such as water, steam, or hot gas). Turbines convert the kinetic energy of fluids to mechanical energy through the principles of impulse and reaction, or a mixture of the two.

**Ultimate consumer:** A consumer that purchases electricity for its own use and not for resale.

**Useful thermal output:** The thermal energy made available in a combined heat or power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

**Waste coal:** As a fuel for electric power generation, waste coal includes anthracite refuse or mine waste, waste from anthracite preparation plants, and coal recovered from previously mined sites.

**Waste gases:** As a fuel for electric power generation, waste gasses are those gasses that are produced from gasses recovered from a solid-waste or wastewater treatment facility, or the gaseous by-products of oil-refining processes.

**Waste oil:** As a fuel for electric power generation, waste oil includes recycled motor oil, and waste oil from transformers.

**Watt (W):** The unit of electrical power equal to one ampere under a pressure of one volt. A Watt is equal to 1/746 horsepower.

**Watthour (Wh):** The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

**Wind energy:** The kinetic energy of wind converted into mechanical energy by wind turbines (i.e., blades rotating from the hub) that drive generators to produce electricity.

**Year-to -date:** The cumulative sum of each month's value starting with January and ending with the current month of the data.