

Released: August 2021
 Next MECS will be fielded in 2023.

Table 7.8 Number of Establishments by Quantity of Purchased Electricity, Natural Gas, and Steam, 2018;

Level: National Data;
 Row: NAICS Codes;
 Column: Supplier Sources of Purchased Electricity, Natural Gas, and Steam;
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Electricity Components				Natural Gas Components				Steam Components			
		Any Electricity(b)	Electricity from Only Local Utility(c)	Electricity from Only Sources Other than Local Utility(d)	Electricity from Both Local Utility and Other Sources	Any Natural Gas(b)	Natural Gas from Only Local Utility(c)	Natural Gas from Only Sources Other than Local Utility(d)	Natural Gas from Both Local Utility and Other Sources	Any Steam(b)	Steam from Only Local Utility(c)	Steam from Only Sources Other than Local Utility(d)	Steam from Both Local Utility and Other Sources
Total United States													
311	Food	15,796	13,139	2,435	222	12,813	6,932	5,525	355	33	16	17	0
3112	Grain and Oilseed Milling	611	505	93	13	508	219	276	14	14	8	6	0
311221	Wet Corn Milling	52	35	D	D	46	D	34	D	6	D	D	0
31131	Sugar Manufacturing	70	61	D	D	62	14	42	6	D	0	D	0
3114	Fruit and Vegetable Preserving and Specialty Food	1,045	817	204	24	888	430	425	33	D	D	D	0
3115	Dairy Product	1,036	776	250	9	916	403	488	25	8	D	D	0
3116	Animal Slaughtering and Processing	1,842	1,423	398	21	1,527	691	823	14	6	D	D	0
312	Beverage and Tobacco Products	3,938	3,232	697	9	1,809	1,089	675	45	D	D	0	0
3121	Beverages	3,853	3,169	675	9	1,756	1,055	D	D	D	D	0	0
3122	Tobacco	85	64	21	0	53	34	D	D	0	0	0	0
313	Textile Mills	1,352	865	469	18	819	561	231	Q	5	D	D	0
314	Textile Product Mills	4,116	2,992	1,085	Q	2,016	1,297	720	0	0	0	0	0
315	Apparel	3,644	2,887	757	0	1,060	517	Q	0	0	0	0	0
316	Leather and Allied Products	655	552	103	0	284	118	163	4	0	0	0	0
321	Wood Products	9,229	7,022	2,192	15	4,606	2,595	1,969	42	11	3	8	0
321113	Sawmills	1,782	1,409	366	7	411	186	219	6	5	D	D	0
3212	Veneer, Plywood, and Engineered Woods	1,079	875	D	D	794	370	416	8	D	D	D	0
321219	Reconstituted Wood Products	158	126	D	D	127	D	82	D	D	0	D	0
3219	Other Wood Products	6,089	4,542	D	D	3,232	1,954	1,255	Q	D	0	D	0
322	Paper	3,009	2,283	597	129	2,662	1,387	1,204	71	18	3	15	0
322110	Pulp Mills	28	23	5	0	27	8	19	0	D	0	D	0
322121	Paper Mills, except Newsprint	156	90	57	10	147	32	D	D	9	0	9	0
322122	Newsprint Mills	11	11	0	0	9	0	D	D	0	0	0	0
322130	Paperboard Mills	143	108	30	5	137	33	99	5	D	3	D	0
323	Printing and Related Support	12,534	9,385	3,057	Q	8,458	4,919	3,375	Q	0	0	0	0
324	Petroleum and Coal Products	1,878	1,338	514	25	1,191	386	758	47	53	D	46	D
324110	Petroleum Refineries	135	92	D	D	128	22	94	12	47	D	41	D
324121	Asphalt Paving Mixture and Block	1,288	949	326	12	724	241	452	30	0	0	0	0
324122	Asphalt Shingle and Coating Materials	168	103	65	0	156	49	107	0	0	0	0	0
324191	Petroleum Lubricating Oil and Grease Products	211	139	72	0	127	D	66	D	D	0	D	0
324199	Other Petroleum and Coal Products	76	55	D	D	56	D	39	D	D	0	D	0
325	Chemicals	8,829	6,612	2,081	137	7,120	3,468	3,524	128	298	38	261	0
325110	Petrochemicals	66	44	D	D	49	D	43	D	15	4	11	0
325120	Industrial Gases	484	427	D	D	240	D	87	D	4	0	4	0
325180	Other Basic Inorganic Chemicals	501	386	110	5	416	182	228	6	67	8	59	0
325193	Ethyl Alcohol	207	168	37	3	199	27	168	3	11	6	5	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	61	54	D	D	56	D	44	D	8	D	D	0
325199	Other Basic Organic Chemicals	524	286	225	13	473	120	338	15	78	7	71	0
325211	Plastics Materials and Resins	813	547	255	11	669	239	408	22	73	7	66	0
325212	Synthetic Rubber	87	60	27	0	76	D	39	D	11	0	11	0
325220	Artificial and Synthetic Fibers and Filaments	99	69	30	0	83	D	36	D	0	0	0	0
325311	Nitrogenous Fertilizers	147	127	Q	0	139	91	48	0	D	0	D	0
325312	Phosphatic Fertilizers	55	44	11	0	34	D	19	D	0	0	0	0
3254	Pharmaceuticals and Medicines	1,297	935	333	29	1,055	617	409	29	7	D	D	0
325412	Pharmaceutical Preparation	687	501	163	Q	531	301	219	11	4	D	D	0
325992	Photographic Film, Paper, Plate, and Chemicals	108	69	D	D	87	D	28	D	3	0	3	0
326	Plastics and Rubber Products	8,317	6,208	1,871	238	5,532	3,199	2,301	Q	0	0	0	0
327	Nonmetallic Mineral Products	12,035	9,086	2,838	111	7,131	3,976	2,838	316	26	0	26	0
327120	Clay Building Material and Refractories	415	281	120	14	361	137	216	8	0	0	0	0
327211	Flat Glass	60	44	16	0	40	9	26	4	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	164	103	D	D	148	59	83	6	0	0	0	0
327213	Glass Containers	57	37	D	D	56	D	51	D	0	0	0	0
327215	Glass Products from Purchased Glass	686	525	153	Q	534	327	201	Q	0	534	0	0
327310	Cements	187	98	D	D	121	D	84	D	0	0	0	0
327410	Lime	86	71	15	0	49	24	25	0	0	0	0	0

327420	Gypsum	148	102	46	0	135	D	74	D	0	0	0	0
327993	Mineral Wool	191	115	D	D	164	62	102	0	D	0	D	0
331	Primary Metals	3,226	2,215	919	92	2,833	1,152	1,608	73	5	0	5	0
331110	Iron and Steel Mills and Ferroalloys	390	273	112	5	337	111	221	5	D	0	D	0
3312	Steel Products from Purchased Steel	498	297	156	Q	435	183	243	9	0	0	0	0
3313	Alumina and Aluminum	399	273	115	11	356	107	238	11	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	109	63	43	3	98	D	73	D	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	65	41	19	4	62	24	38	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	191	146	D	D	162	D	97	D	0	0	0	0
3314	Nonferrous Metals, except Aluminum	651	476	169	6	572	256	309	7	D	0	D	0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	107	83	21	3	92	52	39	0	0	0	0	0
3315	Foundries	1,288	895	367	25	1,134	494	598	42	0	0	0	0
331511	Iron Foundries	373	294	71	8	329	182	139	7	0	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	257	170	79	Q	250	88	152	10	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	277	173	98	6	204	77	120	8	0	0	0	0
332	Fabricated Metal Products	37,801	28,413	9,149	Q	23,099	12,585	10,478	Q	8	0	8	0
333	Machinery	14,919	10,454	4,337	Q	9,986	5,588	4,326	Q	0	0	0	0
334	Computer and Electronic Products	6,573	5,247	1,146	180	3,802	2,202	1,582	Q	D	D	Q	0
334413	Semiconductors and Related Devices	344	280	59	5	146	54	78	Q	D	D	0	0
335	Electrical Equip., Appliances, and Components	3,295	2,467	811	Q	2,119	1,057	1,032	Q	Q	0	Q	0
336	Transportation Equipment	7,032	5,166	1,696	170	4,565	2,433	1,969	163	8	D	D	0
336111	Automobiles	71	50	17	4	59	23	36	0	D	D	D	0
336112	Light Trucks and Utility Vehicles	69	59	10	0	52	26	26	0	0	0	0	0
3364	Aerospace Product and Parts	1,199	878	307	14	769	405	339	25	D	D	0	0
336411	Aircraft	347	307	D	D	216	128	83	5	0	0	0	0
337	Furniture and Related Products	8,128	6,494	1,621	Q	4,276	2,604	1,668	Q	0	0	0	0
339	Miscellaneous	13,589	11,119	2,413	Q	7,015	4,415	2,508	Q	D	0	D	0
	Total	179,894	137,175	40,788	1,931	113,197	62,480	48,995	1,722	488	D	413	D

(a) The Bureau of the Census classifies establishments using the 2017 North American Industry Classification System (NAICS).

(b) *Any Energy Source* (that is, electricity, natural gas, steam) represents the non-duplicative total of establishments identified with this particular energy source. This count includes only those establishments that reported this activity in 2018.

(c) A *Local Utility* is an entity that produces and/or delivers a particular energy source (for example, electricity, natural gas, steam) and is legally obligated to provide service to the general public within its franchise area.

(d) *Sources Other than Local Utility* include independent producers, brokers, marketers, and marketing subsidiaries of utilities; for the case of electricity sources, also include small power producers and cogenerators not located at the establishment site.

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

NA=Not available.

Notes: Totals may not equal sum of components because of independent rounding. Purchased energy sources exclude quantities delivered from any other establishment(s) in the company, quantities transferred from other establishments of the company for which payment was not made, quantities purchased centrally within the company but separate from the reporting establishment, and quantities for which payment was made in-kind.

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, 2018 *Manufacturing Energy Consumption Survey*.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).

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RSE Table 7.8 Relative Standard Errors for Table 7.8;

Unit: Percents.

NAICS Code(a)	Subsector and Industry	Electricity Components				Natural Gas Components				Steam Components			
		Any Electricity(b)	Electricity from Only Local Utility(c)	Electricity from Only Sources Other than Local Utility(d)	Electricity from Both Local Utility and Other Sources	Any Natural Gas(b)	Natural Gas from Only Local Utility(c)	Natural Gas from Only Sources Other than Local Utility(d)	Natural Gas from Both Local Utility and Other Sources	Any Steam(b)	Steam from Only Local Utility(c)	Steam from Only Sources Other than Local Utility(d)	Steam from Both Local Utility and Other Sources
Total United States													
311	Food	0.1	1.3	5.3	11.8	1.5	4.6	3.0	8.0	3.6	9.7	1.2	X
3112	Grain and Oilseed Milling	0.0	2.0	7.1	12.8	2.9	10.0	4.6	16.3	4.5	10.0	0.4	X
311221	Wet Corn Milling	0.0	0.0	D	D	0.0	D	0.0	D	0.0	D	D	X
31131	Sugar Manufacturing	0.0	0.0	D	D	0.0	0.0	0.0	D	D	X	D	X
3114	Fruit and Vegetable Preserving and Specialty Food	0.1	4.9	19.0	38.5	5.8	13.9	12.0	23.7	D	D	D	X
3115	Dairy Product	0.0	3.9	12.0	25.3	3.9	12.8	9.3	23.5	31.3	D	D	X
3116	Animal Slaughtering and Processing	0.0	4.3	15.4	32.3	4.4	11.2	9.3	21.4	44.4	D	D	X
312	Beverage and Tobacco Products	0.0	1.7	6.4	23.5	3.4	4.9	6.8	28.2	D	D	X	X
3121	Beverages	0.0	3.3	15.6	23.5	8.2	12.0	D	D	D	D	X	X
3122	Tobacco	0.0	0.0	0.0	X	0.0	0.0	D	D	X	X	X	X
313	Textile Mills	0.5	8.2	15.1	39.4	9.3	13.8	22.6	50.7	33.7	D	D	X
314	Textile Product Mills	0.0	12.2	33.5	76.7	19.9	28.4	41.6	X	X	X	X	X
315	Apparel	5.6	12.6	43.6	X	32.4	44.2	52.0	X	X	X	X	X
316	Leather and Allied Products	0.0	6.6	35.1	X	19.7	35.1	29.9	48.2	X	X	X	X
321	Wood Products	0.4	2.9	10.0	11.7	4.5	9.2	9.4	23.5	12.1	0.0	14.7	X
321113	Sawmills	0.0	2.6	10.1	0.0	11.1	11.5	18.8	0.0	0.0	D	D	X
3212	Veneer, Plywood, and Engineered Woods	0.2	3.6	D	D	5.5	13.2	13.6	10.0	D	D	D	X
321219	Reconstituted Wood Products	0.0	4.9	D	D	7.9	D	19.7	D	D	X	D	X
3219	Other Wood Products	1.8	5.7	D	D	9.0	13.6	17.9	97.0	D	X	D	X
322	Paper	0.0	1.2	4.4	16.0	1.0	5.1	1.9	5.6	0.0	0.0	0.0	X
322110	Pulp Mills	0.0	0.0	0.0	X	0.0	0.0	0.0	X	D	X	D	X
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	0.0	D	D	0.0	X	0.0	X
322122	Newsprint Mills	0.0	0.0	X	X	0.0	X	D	D	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D	0.0	D	D	X
323	Printing and Related Support	0.6	4.5	13.6	87.2	5.4	9.6	12.6	68.3	X	X	X	X
324	Petroleum and Coal Products	0.0	3.4	7.8	1.3	2.5	6.1	3.3	2.6	0.7	D	0.8	D
324110	Petroleum Refineries	0.0	0.0	D	D	0.0	0.0	0.0	0.0	0.0	D	0.0	D
324121	Asphalt Paving Mixture and Block	0.0	3.1	9.0	15.6	5.4	9.4	6.9	15.0	X	X	X	X
324122	Asphalt Shingle and Coating Materials	0.0	12.9	20.6	X	1.4	12.9	7.5	X	X	X	X	X
324191	Petroleum Lubricating Oil and Grease Products	0.0	12.0	23.1	X	14.4	D	19.8	D	D	X	D	X
324199	Other Petroleum and Coal Products	0.0	0.0	D	D	0.0	D	0.0	D	D	X	D	X
325	Chemicals	0.4	1.7	4.8	13.3	1.5	5.0	3.2	7.8	6.0	4.8	7.1	X
325110	Petrochemicals	0.0	0.0	D	D	0.0	D	0.0	D	0.0	0.0	0.0	X
325120	Industrial Gases	5.7	6.7	D	D	16.4	D	20.0	D	12.1	X	12.1	X
325180	Other Basic Inorganic Chemicals	0.0	6.0	21.0	9.4	7.9	18.0	13.7	43.7	36.2	40.4	41.0	X
325193	Ethyl Alcohol	0.0	1.6	6.7	29.1	1.1	12.5	2.4	4.1	20.0	4.1	42.1	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	D	D	0.0	D	0.0	D	0.0	D	D	X
325199	Other Basic Organic Chemicals	0.0	9.7	12.4	32.6	2.7	16.7	7.3	21.4	15.3	23.1	16.2	X
325211	Plastics Materials and Resins	0.0	7.2	15.4	28.5	6.1	13.9	10.9	24.1	26.1	9.7	28.7	X
325212	Synthetic Rubber	0.0	0.0	0.0	X	0.0	D	0.0	D	0.0	X	0.0	X
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0	X	0.0	D	0.0	D	X	X	X	X
325311	Nitrogenous Fertilizers	0.4	10.4	64.2	X	2.6	27.8	45.4	X	D	X	D	X
325312	Phosphatic Fertilizers	0.0	0.0	0.0	X	0.0	D	0.0	D	X	X	X	X
3254	Pharmaceuticals and Medicines	2.0	6.3	16.3	41.3	5.7	10.7	13.9	38.0	8.1	D	D	X
325412	Pharmaceutical Preparation	4.0	9.0	23.6	53.0	9.3	15.6	17.4	35.3	10.8	D	D	X
325992	Photographic Film, Paper, Plate, and Chemicals	0.0	13.1	D	D	10.6	D	19.0	D	18.8	X	18.8	X
326	Plastics and Rubber Products	0.0	4.9	15.5	49.5	6.1	10.7	13.2	60.0	X	X	X	X
327	Nonmetallic Mineral Products	0.0	3.0	6.7	11.6	1.9	6.6	4.6	9.7	26.2	X	26.2	X
327120	Clay Building Material and Refractories	0.0	7.1	16.5	14.8	5.8	13.7	10.4	8.6	X	X	X	X
327211	Flat Glass	0.0	0.0	0.0	X	0.0	0.0	0.0	0.0	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	0.0	16.4	D	D	5.0	27.8	20.8	31.9	X	X	X	X
327213	Glass Containers	0.0	0.0	D	D	0.0	D	0.0	D	X	X	X	X
327215	Glass Products from Purchased Glass	0.0	6.6	22.6	53.4	6.4	13.4	17.9	64.9	X	X	X	X
327310	Cements	0.0	18.0	D	D	14.8	D	20.8	D	X	X	X	X
327410	Lime	0.0	0.0	0.0	X	0.0	0.0	0.0	X	X	X	X	X
327420	Gypsum	0.0	9.9	22.0	X	4.0	D	16.8	D	X	X	X	X
327993	Mineral Wool	0.0	17.4	D	D	5.3	22.6	19.2	X	D	X	D	X
331	Primary Metals	0.0	2.1	4.9	17.1	1.4	4.9	2.8	9.5	0.0	X	0.0	X
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D	X	D	X
3312	Steel Products from Purchased Steel	0.0	10.9	18.6	65.4	4.0	16.3	12.8	44.6	X	X	X	X
3313	Alumina and Aluminum	0.0	3.3	7.5	2.0	1.6	6.3	2.6	18.5	X	X	X	X
331314	Secondary Smelting and Alloying of Aluminum	0.0	14.2	21.7	13.1	1.4	D	6.8	D	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X

331318	Other Aluminum Rolling, Drawing and Extruding	0.0	3.5	D	D	6.6	D	10.0	D	X	X	X	X
3314	Nonferrous Metals, except Aluminum	0.0	4.3	13.1	15.6	3.9	13.3	11.0	39.4	D	X	D	X
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	5.3	18.0	18.0	3.0	18.9	18.0	X	X	X	X	X
3315	Foundries	0.0	4.2	9.9	31.9	3.2	8.6	6.4	12.3	X	X	X	X
331511	Iron Foundries	0.0	6.1	23.6	20.8	7.1	19.8	21.4	18.1	X	X	X	X
331523	Nonferrous Metal Die-Casting Foundries	0.0	5.4	11.0	80.3	0.6	13.6	7.8	23.5	X	X	X	X
331524	Aluminum Foundries, except Die-Casting	0.0	13.9	25.2	27.5	12.4	17.8	14.1	13.2	X	X	X	X
332	Fabricated Metal Products	0.4	3.6	10.9	66.8	4.9	8.7	9.9	86.5	0.0	X	0.0	X
333	Machinery	0.0	4.3	10.2	69.9	4.6	8.5	10.3	93.5	X	X	X	X
334	Computer and Electronic Products	0.6	3.5	15.3	31.7	9.8	15.2	14.3	79.7	D	D	92.4	X
334413	Semiconductors and Related Devices	0.0	4.9	22.0	41.9	19.9	37.5	22.8	81.1	D	D	X	X
335	Electrical Equip., Appliances, and Components	0.0	8.2	24.8	79.3	11.5	21.2	20.7	97.4	61.5	X	61.5	X
336	Transportation Equipment	0.2	2.1	7.6	18.2	3.9	6.7	5.0	26.8	2.1	D	D	X
336111	Automobiles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	D	D	D	X
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0	X	0.0	0.0	0.0	X	X	X	X	X
3364	Aerospace Product and Parts	0.0	4.3	15.6	9.9	10.1	15.3	13.5	21.9	D	D	X	X
336411	Aircraft	0.0	3.4	D	D	18.0	25.5	21.1	19.1	X	X	X	X
337	Furniture and Related Products	1.5	4.7	17.7	71.5	8.7	13.1	17.1	82.9	X	X	X	X
339	Miscellaneous	0.7	3.7	16.8	61.6	7.7	11.4	16.5	96.5	D	X	D	X
	Total	0.1	0.7	2.2	6.3	0.7	2.0	1.4	3.9	3.4	D	4.1	D

(a) The Bureau of the Census classifies establishments using the 2017 North American Industry Classification System (NAICS).

(b) Any Energy Source (that is, electricity, natural gas, steam) represents the non-duplicative total of establishments identified with this particular energy source. This count includes only those establishments that reported this activity in 2018.

(c) A Local Utility is an entity that produces and/or delivers a particular energy source (for example, electricity, natural gas, steam) and is legally obligated to provide service to the general public within its franchise area.

(d) Sources Other than Local Utility include independent producers, brokers, marketers, and marketing subsidiaries of utilities; for the case of electricity sources, also include small power producers and cogenerators not located at the establishment site.

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

X=Not defined because RSE corresponds to a data table value of zero.

NA=Not available.

Notes: Totals may not equal sum of components because of independent rounding. Purchased energy sources exclude quantities delivered from any other establishment(s) in the company, quantities transferred from other establishments of the company for which payment was not made, quantities purchased centrally within the company but separate from the reporting establishment, and quantities for which payment was made in-kind.

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, 2018 Manufacturing Energy Consumption Survey.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).