

Released: August 2021

Next MECS will be fielded in 2023.

Table 2.4 Number of Establishments by Nonfuel (Feedstock) Use of Combustible Energy, 2018;

Level: National Data;

Row: NAICS Codes; Column: Energy Sources;

Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Any Combustible Energy Source(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	HGL (excluding natural gasoline)(e)	Coal	Coke and Breeze	Other(f)
Total United States									
311	Food	642	0	47	351	Q	D	0	139
3112	Grain and Oilseed Milling	23	0	5	5	0	0	0	13
311221	Wet Corn Milling	5	0	D	0	0	0	0	3
31131	Sugar Manufacturing	5	0	D	D	0	D	0	4
3114	Fruit and Vegetable Preserving and Specialty Food	Q	0	D	7	0	0	0	Q
3115	Dairy Product	72	0	0	D	D	0	0	27
3116	Animal Slaughtering and Processing	73	0	6	Q	0	0	0	Q
312	Beverage and Tobacco Products	131	0	3	41	Q	0	0	25
3121	Beverages	129	0	3	D	Q	0	0	D
3122	Tobacco	3	0	0	D	0	0	0	D
313	Textile Mills	24	0	Q	D	11	0	0	11
314	Textile Product Mills	0	0	0	0	0	0	0	0
315	Apparel	Q	0	0	D	Q	0	0	0
316	Leather and Allied Products	4	0	0	4	0	0	0	0
321	Wood Products	376	D	65	108	125	0	0	128
321113	Sawmills	83	Q	26	D	D	0	0	48
3212	Veneer, Plywood, and Engineered Woods	13	D	5	D	0	0	0	6
321219	Reconstituted Wood Products	D	D	D	0	0	0	0	D
3219	Other Wood Products	263	0	Q	101	D	0	0	65
322	Paper	170	0	12	130	14	D	0	16
322110	Pulp Mills	D	0	0	0	0	0	0	D
322121	Paper Mills, except Newsprint	10	0	D	D	0	D	0	7
322122	Newsprint Mills	D	0	0	0	0	0	0	D
322130	Paperboard Mills	10	0	D	D	D	0	0	6
323	Printing and Related Support	Q	0	0	Q	3	0	0	Q
324	Petroleum and Coal Products	1,089	D	13	28	13	7	0	1,055
324110	Petroleum Refineries	0	0	0	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	936	D	D	D	Q	0	0	912
324122	Asphalt Shingle and Coating Materials	115	D	0	0	0	0	0	115
324191	Petroleum Lubricating Oil and Grease Products	Q	0	0	3	3	0	0	Q
324199	Other Petroleum and Coal Products	21	0	D	D	0	7	0	13
325	Chemicals	815	12	90	237	245	43	0	378
325110	Petrochemicals	25	0	D	3	17	0	0	15
325120	Industrial Gases	56	0	0	24	D	0	0	D
325180	Other Basic Inorganic Chemicals	96	12	5	38	6	D	0	61
325193	Ethyl Alcohol	16	0	0	6	D	0	0	7

325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	11	0	0	D	D	5	0	4
325199	Other Basic Organic Chemicals	136	0	Q	73	61	D	0	74
325211	Plastics Materials and Resins	77	0	D	9	33	0	0	57
325212	Synthetic Rubber	10	0	0	D	3	0	0	7
325220	Artificial and Synthetic Fibers and Filaments	3	0	0	D	0	0	0	D
325311	Nitrogenous Fertilizers	100	0	71	28	D	0	0	5
325312	Phosphatic Fertilizers	6	0	0	6	0	0	0	0
3254	Pharmaceuticals and Medicines	52	0	3	Q	0	0	0	Q
325412	Pharmaceutical Preparation	Q	0	D	Q	0	0	0	Q
325992	Photographic Film, Paper, Plate, and Chemicals	3	0	0	D	0	0	0	D
326	Plastics and Rubber Products	420	0	Q	265	Q	0	0	Q
327	Nonmetallic Mineral Products	792	0	161	146	Q	D	0	607
327120	Clay Building Material and Refractories	20	0	4	Q	0	0	0	Q
327211	Flat Glass	9	0	0	D	0	D	0	8
327212	Other Pressed and Blown Glass and Glassware	D	0	0	0	D	0	0	D
327213	Glass Containers	D	0	0	0	0	0	0	D
327215	Glass Products from Purchased Glass	71	0	D	17	D	0	0	18
327310	Cements	Q	0	0	Q	0	0	0	Q
327410	Lime	D	0	0	D	0	0	0	0
327420	Gypsum	4	0	0	D	0	0	0	3
327993	Mineral Wool	6	0	D	D	D	0	0	3
331	Primary Metals	386	0	11	105	44	41	Q	213
331110	Iron and Steel Mills and Ferroalloys	75	0	D	14	4	33	0	37
3312	Steel Products from Purchased Steel	87	0	4	13	Q	D	0	65
3313	Alumina and Aluminum	36	0	D	10	3	0	0	19
331314	Secondary Smelting and Alloying of Aluminum	8	0	0	3	D	0	0	4
331315	Aluminum Sheet, Plate and Foils	10	0	D	4	D	0	0	D
331318	Other Aluminum Rolling, Drawing and Extruding	14	0	D	3	0	0	0	9
3314	Nonferrous Metals, except Aluminum	61	0	0	14	7	3	Q	40
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	11	0	0	7	0	3	0	D
3315	Foundries	127	0	3	53	22	D	0	52
331511	Iron Foundries	32	0	D	11	D	D	0	17
331523	Nonferrous Metal Die-Casting Foundries	25	0	0	D	D	0	0	Q
331524	Aluminum Foundries, except Die-Casting	31	0	D	16	3	0	0	11
332	Fabricated Metal Products	2,467	0	Q	616	704	0	0	1,407
333	Machinery	1,174	0	Q	591	300	0	0	299
334	Computer and Electronic Products	265	0	D	Q	0	0	0	139
334413	Semiconductors and Related Devices	72	0	D	Q	0	0	0	51
335	Electrical Equip., Appliances, and Components	111	0	0	0	0	0	0	111
336	Transportation Equipment	600	0	74	190	94	0	0	327
336111	Automobiles	7	0	0	0	6	0	0	D
336112	Light Trucks and Utility Vehicles	5	0	D	D	0	0	0	4
3364	Aerospace Product and Parts	32	0	D	14	5	0	0	20
336411	Aircraft	D	0	0	0	0	0	0	D
337	Furniture and Related Products	Q	0	0	Q	0	0	0	Q
339	Miscellaneous	557	0	D	362	Q	0	0	Q
	Total	10,384	25	1,066	3,568	1,976	97	Q	5,206

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

(b) *Any Combustible Energy Source* represents the non-duplicative total of establishments identified with any of the listed energy sources. This count includes only those establishments that reported this activity in 2018.

(c) *Distillate Fuel Oil* includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(d) *Natural Gas* includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(e) Hydrocarbon Gas Liquids (*HGL*) include ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids (NGL).

(f) *Other* includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power or as feedstock/raw material inputs.

* 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. The derived estimates presented in this table are for the first use (formerly primary consumption) of energy for heat and power and as feedstocks or raw material inputs. First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy. Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; wood chips, bark, and wood waste from wood purchased as a raw material input; and waste materials, such as wastepaper and packing materials. First use excludes quantities of energy that are produced from other energy inputs and, therefore, avoids double counting.

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 2.4 Relative Standard Errors for Table 2.4;

Unit: Percents.

NAICS Code(a)	Subsector and Industry	Any Combustible Energy Source(b)	Residual Fuel Oil	Distillate Fuel Oil(c)	Natural Gas(d)	HGL (excluding natural gasoline)(e)	Coal	Coke and Breeze	Other(f)
Total United States									
311	Food	11.5	X	10.8	26.5	65.6	D	X	13.0
3112	Grain and Oilseed Milling	2.9	X	1.8	8.5	X	X	X	3.1
311221	Wet Corn Milling	0.0	X	D	X	X	X	X	0.0
31131	Sugar Manufacturing	0.0	X	D	D	X	D	X	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	61.0	X	D	44.6	X	X	X	94.8
3115	Dairy Product	40.5	X	X	D	D	X	X	29.2
3116	Animal Slaughtering and Processing	41.2	X	26.7	53.2	X	X	X	51.7
312	Beverage and Tobacco Products	21.2	X	0.0	32.3	66.9	X	X	9.3
3121	Beverages	40.3	X	0.0	D	66.9	X	X	D
3122	Tobacco	0.0	X	X	D	X	X	X	D
313	Textile Mills	33.1	X	83.0	D	49.4	X	X	47.4
314	Textile Product Mills	X	X	X	X	X	X	X	X
315	Apparel	75.5	X	X	D	99.5	X	X	X
316	Leather and Allied Products	35.5	X	X	35.5	X	X	X	X
321	Wood Products	18.9	D	13.5	36.4	43.4	X	X	36.9
321113	Sawmills	20.8	84.0	30.5	D	D	X	X	29.4
3212	Veneer, Plywood, and Engineered Woods	12.6	D	18.8	D	X	X	X	12.5
321219	Reconstituted Wood Products	D	D	D	X	X	X	X	D
3219	Other Wood Products	28.7	X	93.0	46.8	D	X	X	48.3
322	Paper	8.8	X	11.2	41.2	14.2	D	X	0.0
322110	Pulp Mills	D	X	X	X	X	X	X	D
322121	Paper Mills, except Newsprint	0.0	X	D	D	X	D	X	0.0
322122	Newsprint Mills	D	X	X	X	X	X	X	D
322130	Paperboard Mills	0.0	X	D	D	D	X	X	0.0
323	Printing and Related Support	57.5	X	X	64.7	0.0	X	X	80.3
324	Petroleum and Coal Products	5.9	D	5.2	20.7	31.3	0.0	X	6.4
324110	Petroleum Refineries	X	X	X	X	X	X	X	X
324121	Asphalt Paving Mixture and Block	4.5	D	D	D	56.0	X	X	4.7
324122	Asphalt Shingle and Coating Materials	12.4	D	X	X	X	X	X	12.4
324191	Petroleum Lubricating Oil and Grease Products	59.8	X	X	36.6	37.5	X	X	71.7
324199	Other Petroleum and Coal Products	0.0	X	D	D	X	0.0	X	0.0
325	Chemicals	7.3	17.8	42.6	13.2	6.9	8.0	X	8.6
325110	Petrochemicals	0.0	X	D	0.0	0.0	X	X	0.0
325120	Industrial Gases	46.3	X	X	20.2	D	X	X	D
325180	Other Basic Inorganic Chemicals	23.4	17.8	9.4	35.2	9.4	D	X	31.1
325193	Ethyl Alcohol	15.0	X	X	25.1	D	X	X	23.8
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	X	X	D	D	0.0	X	0.0
325199	Other Basic Organic Chemicals	14.8	X	60.6	25.9	28.1	D	X	23.6
325211	Plastics Materials and Resins	23.6	X	D	23.7	13.7	X	X	31.2
325212	Synthetic Rubber	0.0	X	X	D	0.0	X	X	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	X	X	D	X	X	X	D
325311	Nitrogenous Fertilizers	21.9	X	47.8	46.9	D	X	X	43.3
325312	Phosphatic Fertilizers	0.0	X	X	0.0	X	X	X	X
3254	Pharmaceuticals and Medicines	41.9	X	7.7	57.3	X	X	X	57.7
325412	Pharmaceutical Preparation	54.9	X	D	56.8	X	X	X	75.9

325992	Photographic Film, Paper, Plate, and Chemicals	18.8	X	X	D	X	X	X	D
326	Plastics and Rubber Products	35.1	X	98.7	46.5	57.7	X	X	56.3
327	Nonmetallic Mineral Products	17.0	X	29.5	38.6	68.1	D	X	22.3
327120	Clay Building Material and Refractories	32.7	X	8.6	61.0	X	X	X	53.7
327211	Flat Glass	0.0	X	X	D	X	D	X	0.0
327212	Other Pressed and Blown Glass and Glassware	D	X	X	X	D	X	X	D
327213	Glass Containers	D	X	X	X	X	X	X	D
327215	Glass Products from Purchased Glass	44.4	X	D	30.7	D	X	X	25.6
327310	Cements	54.5	X	X	57.7	X	X	X	66.5
327410	Lime	D	X	X	D	X	X	X	X
327420	Gypsum	15.0	X	X	D	X	X	X	15.0
327993	Mineral Wool	28.8	X	D	D	D	X	X	46.1
331	Primary Metals	5.7	X	4.4	10.7	19.9	4.3	59.1	7.5
331110	Iron and Steel Mills and Ferroalloys	0.0	X	D	0.0	0.0	0.0	X	0.0
3312	Steel Products from Purchased Steel	17.7	X	10.0	32.0	58.1	D	X	20.9
3313	Alumina and Aluminum	4.7	X	D	7.0	4.1	X	X	6.4
331314	Secondary Smelting and Alloying of Aluminum	23.3	X	X	22.7	D	X	X	40.3
331315	Aluminum Sheet, Plate and Foils	0.0	X	D	0.0	D	X	X	D
331318	Other Aluminum Rolling, Drawing and Extruding	12.0	X	D	13.6	X	X	X	14.4
3314	Nonferrous Metals, except Aluminum	18.4	X	X	35.9	43.9	18.0	59.1	14.6
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	31.1	X	X	41.9	X	18.0	X	D
3315	Foundries	14.7	X	27.9	19.3	38.6	D	X	24.8
331511	Iron Foundries	29.0	X	D	17.5	D	D	X	48.0
331523	Nonferrous Metal Die-Casting Foundries	43.3	X	X	D	D	X	X	56.5
331524	Aluminum Foundries, except Die-Casting	23.1	X	D	41.2	26.6	X	X	12.2
332	Fabricated Metal Products	23.1	X	57.2	47.6	44.4	X	X	30.7
333	Machinery	22.5	X	94.9	32.4	45.3	X	X	45.5
334	Computer and Electronic Products	32.2	X	D	75.3	X	X	X	35.8
334413	Semiconductors and Related Devices	36.1	X	D	94.5	X	X	X	38.7
335	Electrical Equip., Appliances, and Components	39.1	X	X	X	X	X	X	39.1
336	Transportation Equipment	9.9	X	39.1	28.1	12.4	X	X	14.7
336111	Automobiles	0.0	X	X	X	0.0	X	X	D
336112	Light Trucks and Utility Vehicles	0.0	X	D	D	X	X	X	0.0
3364	Aerospace Product and Parts	15.3	X	D	21.8	9.7	X	X	17.2
336411	Aircraft	D	X	X	X	X	X	X	D
337	Furniture and Related Products	77.1	X	X	83.0	X	X	X	87.3
339	Miscellaneous	38.6	X	D	48.9	88.4	X	X	67.2
	Total	3.4	10.8	26.8	8.5	7.1	2.7	59.1	4.1

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(c) *Distillate Fuel Oil* includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(d) *Natural Gas* includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

(e) *Hydrocarbon Gas Liquids (HGL)* include ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids (NGL).

(f) *Other* includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power or as feedstock/raw material inputs.

* 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. The derived estimates presented in this table are for the first use (formerly primary consumption) of energy for heat and power and as feedstocks or raw material inputs. First use is defined as the consumption of the energy that was originally produced offsite or was produced onsite from input materials not classified as energy. Examples of the latter are hydrogen produced from the electrolysis of brine; the output of captive (onsite) mines or wells; wood chips, bark, and wood waste from wood purchased as a raw material input; and waste materials, such as wastepaper and packing materials. First use excludes quantities of energy that are produced from other energy inputs and, therefore, avoids double counting.

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

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