

Released: December 2025

Next MECS will be fielded in 2027

Table 2.4 Number of establishments by nonfuel (feedstock) use of combustible energy, 2022

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	715	0	Q	Q	Q	0	0	89
3112	Grain and Oilseed Milling	18	0	0	Q	0	0	0	13
311221	Wet Corn Milling and Starch Manufacturing	3	0	0	0	0	0	0	3
31131	Sugar Manufacturing	3	0	D	0	0	0	0	D
3114	Fruit and Vegetable Preserving and Specialty Food	21	0	Q	4	D	0	0	7
3115	Dairy Product Manufacturing	37	0	0	Q	0	0	0	26
3116	Animal Slaughtering and Processing	Q	0	D	Q	D	0	0	12
312	Beverage and Tobacco Products	Q	0	Q	0	Q	0	0	Q
3121	Beverages	D	0	Q	0	D	0	0	Q
3122	Tobacco	D	0	0	0	D	0	0	0
313	Textile Mills	0	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	D	0	0	0	0	0	0	D
321	Wood Products	306	0	85	Q	Q	0	0	110
321113	Sawmills	89	0	Q	D	3	0	0	40
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	Q	0	Q	4	0	0	0	11
321219	Reconstituted Wood Products	0	0	0	0	0	0	0	0
3219	Other Wood Products	154	0	6	Q	D	0	0	Q
322	Paper	88	0	D	Q	Q	0	0	Q
322110	Pulp Mills	D	0	0	0	0	0	0	D
322120	Paper Mills	3	0	0	0	0	0	0	3
322130	Paperboard Mills	10	0	D	0	D	0	0	8
323	Printing and Related Support	464	0	0	464	0	0	0	0
324	Petroleum and Coal Products	1,043	D	20	26	6	8	0	1,008
324110	Petroleum Refineries	0	0	0	0	0	0	0	0
324121	Asphalt Paving Mixture and Block	912	D	12	13	D	0	0	906
324122	Asphalt Shingle and Coating Materials	94	0	0	0	D	0	0	94
324191	Petroleum Lubricating Oil and Grease Manufacturing	Q	0	Q	Q	0	0	0	4
324199	All Other Petroleum and Coal Products Manufacturing	16	0	5	0	0	8	0	4
325	Chemicals	928	5	112	432	164	67	0	392
325110	Petrochemicals	22	0	D	D	19	D	0	12
325120	Industrial Gases	16	0	0	11	5	0	0	0
325180	Other Basic Inorganic Chemical Manufacturing	134	5	Q	20	D	D	0	39
325193	Ethyl Alcohol	8	0	0	D	D	0	0	7
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	20	0	0	D	D	14	0	8
325199	All Other Basic Organic Chemical Manufacturing	184	0	Q	Q	52	Q	0	Q
325211	Plastics Materials and Resins	93	0	D	24	26	0	0	Q
325212	Synthetic Rubber	7	0	D	D	D	0	0	D

325220	Artificial and Synthetic Fibers and Filaments	4	0	0	0	0	0	0	4
325311	Nitrogenous Fertilizers	39	0	0	21	8	0	0	13
325312	Phosphatic Fertilizers	D	0	0	D	0	D	0	0
3254	Pharmaceuticals and Medicines	71	0	8	Q	Q	Q	0	Q
325412	Pharmaceutical Preparation	23	0	4	15	D	0	0	3
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	5	0	D	0	D	0	0	D
326	Plastics and Rubber Products	469	0	0	260	D	0	0	150
327	Nonmetallic Mineral Products	303	0	Q	21	Q	Q	0	Q
327120	Clay Building Material and Refractories	20	0	Q	D	0	0	0	8
327211	Flat Glass	4	0	0	3	0	0	0	D
327212	Other Pressed and Blown Glass and Glassware	4	0	0	D	D	0	0	4
327213	Glass Containers	D	0	0	0	0	0	0	D
327215	Glass Products from Purchased Glass	13	0	D	8	0	0	0	5
327310	Cements	3	0	0	0	3	0	0	3
327410	Lime	D	0	0	0	0	0	0	D
327420	Gypsum	D	0	0	D	0	0	0	D
327993	Mineral Wool	D	0	D	0	0	0	0	0
331	Primary Metals	230	0	12	76	D	29	Q	102
331110	Iron and Steel Mills and Ferroalloys	54	0	D	9	D	D	0	29
3312	Steel Products from Purchased Steel	31	0	3	D	0	0	0	17
3313	Alumina and Aluminum Production and Processing	35	0	D	Q	0	0	0	7
331314	Secondary Smelting and Alloying of Aluminum	4	0	0	4	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	D	0	D	D	0	0	0	D
331318	Other Aluminum Rolling, Drawing and Extruding	7	0	0	D	0	0	0	4
3314	Nonferrous Metal (except Aluminum) Production and Processing	37	0	5	D	Q	D	D	20
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	3	0	D	0	0	D	0	D
3315	Foundries	73	0	D	Q	39	3	D	28
331511	Iron Foundries	31	0	0	D	Q	3	0	5
331523	Nonferrous Metal Die-Casting Foundries	13	0	0	D	Q	0	0	7
331524	Aluminum Foundries, except Die-Casting	Q	0	D	3	Q	0	0	Q
332	Fabricated Metal Products	2,023	0	Q	Q	Q	0	0	1,209
333	Machinery	918	0	Q	411	Q	0	0	442
334	Computer and Electronic Products	Q	0	Q	0	D	0	0	Q
334413	Semiconductors and Related Devices	32	0	0	0	D	0	0	30
335	Electrical Equipment, Appliances, and Components	Q	0	D	0	Q	0	0	Q
336	Transportation Equipment	643	0	Q	Q	Q	0	0	413
336110	Automobile and Light Duty Motor Vehicle Manufacturing	Q	0	0	0	D	0	0	Q
3364	Aerospace Product and Parts	96	0	0	Q	Q	0	0	25
336411	Aircraft	D	0	0	0	D	0	0	0
337	Furniture and Related Products	D	0	0	Q	0	0	0	D
339	Miscellaneous	594	0	0	403	0	0	0	Q
	Total	9,317	D	601	3,224	1,446	110	Q	4,753

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, *2022 Manufacturing Energy Consumption Survey*

Note: 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 feedstock 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.

^a The Bureau of the Census classifies establishments using the 2022 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 2022.

^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 suppliers, such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

^e Hydrocarbon gas liquids (HGLs) 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 (NGLs).

^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 (RSE) is greater than 50%

NA=Not available

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure protection of the confidential source data (Project No. 7504703, Disclosure Review Board (DRB) approval number: CBDRB-FY25-0054).

Released: December 2025

Next MECS will be fielded in 2027

RSE Table 2.4 Relative standard errors for Table 2.4

Unit: Percentage

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	38.6	X	55.2	52.1	66.9	X	X	32.9
3112	Grain and Oilseed Milling	17.7	X	X	56.5	X	X	X	13.1
311221	Wet Corn Milling and Starch Manufacturing	0.0	X	X	X	X	X	X	0.0
31131	Sugar Manufacturing	0.0	X	D	X	X	X	X	D
3114	Fruit and Vegetable Preserving and Specialty Food	39.0	X	72.6	48.7	D	X	X	41.1
3115	Dairy Product Manufacturing	37.3	X	X	91.4	X	X	X	37.5
3116	Animal Slaughtering and Processing	58.7	X	D	90.7	D	X	X	13.4
312	Beverage and Tobacco Products	63.6	X	57.9	X	75.7	X	X	83.7
3121	Beverages	D	X	57.9	X	D	X	X	83.7
3122	Tobacco	D	X	X	X	D	X	X	X
313	Textile Mills	X	X	X	X	X	X	X	X
314	Textile Product Mills	X	X	X	X	X	X	X	X
315	Apparel	X	X	X	X	X	X	X	X
316	Leather and Allied Products	D	X	X	X	X	X	X	D
321	Wood Products	26.6	X	46.0	56.6	59.2	X	X	47.3
321113	Sawmills	31.9	X	66.1	D	0.0	X	X	33.9
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	65.7	X	92.6	0.0	X	X	X	36.8
321219	Reconstituted Wood Products	X	X	X	X	X	X	X	X
3219	Other Wood Products	45.1	X	17.2	94.3	D	X	X	84.3
322	Paper	47.3	X	D	97.2	59.6	X	X	63.9
322110	Pulp Mills	D	X	X	X	X	X	X	D
322120	Paper Mills	0.0	X	X	X	X	X	X	0.0
322130	Paperboard Mills	0.0	X	D	X	D	X	X	0.0
323	Printing and Related Support	39.7	X	X	39.7	X	X	X	X
324	Petroleum and Coal Products	3.4	D	8.8	42.3	25.2	0.0	X	3.4
324110	Petroleum Refineries	X	X	X	X	X	X	X	X
324121	Asphalt Paving Mixture and Block	3.7	D	6.2	28.1	D	X	X	3.8
324122	Asphalt Shingle and Coating Materials	2.8	X	X	X	D	X	X	2.8
324191	Petroleum Lubricating Oil and Grease Manufacturing	52.4	X	55.1	77.7	X	X	X	0.0
324199	All Other Petroleum and Coal Products Manufacturing	0.0	X	0.0	X	X	0.0	X	0.0
325	Chemicals	17.4	0.0	47.2	31.6	18.1	43.3	X	22.7
325110	Petrochemicals	0.0	X	D	D	0.0	D	X	0.0
325120	Industrial Gases	5.2	X	X	0.0	18.0	X	X	X
325180	Other Basic Inorganic Chemical Manufacturing	37.4	0.0	64.8	22.3	D	D	X	16.4
325193	Ethyl Alcohol	0.0	X	X	D	D	X	X	0.0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	X	X	D	D	0.0	X	0.0
325199	All Other Basic Organic Chemical Manufacturing	31.6	X	82.2	53.3	29.7	76.9	X	51.4
325211	Plastics Materials and Resins	41.0	X	D	24.0	2.3	X	X	60.7
325212	Synthetic Rubber	0.0	X	D	D	D	X	X	D
325220	Artificial and Synthetic Fibers and Filaments	0.0	X	X	X	X	X	X	0.0
325311	Nitrogenous Fertilizers	0.0	X	X	0.0	0.0	X	X	0.0
325312	Phosphatic Fertilizers	D	X	X	D	X	D	X	X
3254	Pharmaceuticals and Medicines	35.7	X	23.8	61.2	56.1	96.1	X	80.3
325412	Pharmaceutical Preparation	16.4	X	0.0	25.4	D	X	X	21.6
325992	Photographic Film, Paper, Plate, Chemical, and Copy Toner Manufacturing	0.0	X	D	X	D	X	X	D
326	Plastics and Rubber Products	32.3	X	X	49.5	D	X	X	48.2
327	Nonmetallic Mineral Products	45.5	X	83.3	21.1	90.5	78.3	X	59.6
327120	Clay Building Material and Refractories	29.5	X	63.2	D	X	X	X	0.0
327211	Flat Glass	0.0	X	X	0.0	X	X	X	D
327212	Other Pressed and Blown Glass and Glassware	0.0	X	X	D	D	X	X	0.0

327213	Glass Containers	D	X	X	X	X	X	X	D
327215	Glass Products from Purchased Glass	25.2	X	D	39.1	X	X	X	12.7
327310	Cements	0.0	X	X	X	0.0	X	X	0.0
327410	Lime	D	X	X	X	X	X	X	D
327420	Gypsum	D	X	X	D	X	X	X	D
327993	Mineral Wool	D	X	D	X	X	X	X	X
331	Primary Metals	12.0	X	0.0	30.2	D	0.0	56.5	12.0
331110	Iron and Steel Mills and Ferroalloys	0.0	X	D	0.0	D	D	X	0.0
3312	Steel Products from Purchased Steel	28.0	X	0.0	D	X	X	X	20.9
3313	Alumina and Aluminum Production and Processing	45.5	X	D	60.8	X	X	X	10.8
331314	Secondary Smelting and Alloying of Aluminum	0.0	X	X	0.0	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	D	X	D	D	X	X	X	D
331318	Other Aluminum Rolling, Drawing and Extruding	12.2	X	X	D	X	X	X	19.4
3314	Nonferrous Metal (except Aluminum) Production and Processing	26.7	X	0.0	D	69.2	D	D	15.7
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0	X	D	X	X	D	X	D
3315	Foundries	25.5	X	D	50.1	47.0	0.0	D	40.0
331511	Iron Foundries	45.8	X	X	D	71.5	0.0	X	0.0
331523	Nonferrous Metal Die-Casting Foundries	20.0	X	X	D	51.2	X	X	0.0
331524	Aluminum Foundries, except Die-Casting	58.3	X	D	9.5	80.9	X	X	89.8
332	Fabricated Metal Products	25.4	X	99.5	57.3	73.1	X	X	32.6
333	Machinery	27.4	X	86.3	39.2	68.0	X	X	40.5
334	Computer and Electronic Products	69.7	X	68.8	X	D	X	X	70.9
334413	Semiconductors and Related Devices	31.7	X	X	X	D	X	X	33.9
335	Electrical Equipment, Appliances, and Components	50.1	X	D	X	96.5	X	X	55.1
336	Transportation Equipment	32.4	X	98.0	53.3	65.8	X	X	42.4
336110	Automobile and Light Duty Motor Vehicle Manufacturing	75.1	X	X	X	D	X	X	76.3
3364	Aerospace Product and Parts	36.3	X	X	58.7	58.1	X	X	17.8
336411	Aircraft	D	X	X	X	D	X	X	X
337	Furniture and Related Products	D	X	X	89.8	X	X	X	D
339	Miscellaneous	39.6	X	X	49.6	X	X	X	54.6
	Total	8.7	D	34.7	16.2	22.1	26.8	56.5	11.4

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, 2022 Manufacturing Energy Consumption Survey

Note: 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 feedstock 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.

^a The Bureau of the Census classifies establishments using the 2022 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 2022.

^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 suppliers, such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

^e Hydrocarbon gas liquids (HGLs) 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 (NGLs).

^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 (RSE) is greater than 50%

NA=Not available

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

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure protection of the confidential source data (Project No. 7504703, Disclosure Review Board (DRB) approval number: CDBRB-FY25-0054).