

3254	Pharmaceuticals and Medicines	*	*	*	0	0	0	*	0	*	*	*
325412	Pharmaceutical Preparation	*	*	*	0	0	0	*	0	*	*	*
325992	Photographic Film, Paper, Plate, and Chemicals	*	*	*	*	0	0	0	0	0	0	*
326	Plastics and Rubber Products	*	*	*	0	0	0	0	0	*	*	*
327	Nonmetallic Mineral Products	4	3	1	*	*	*	*	*	*	*	2
327120	Clay Building Material and Refractories	*	*	*	0	0	*	0	0	*	*	*
327211	Flat Glass	*	*	*	0	*	*	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	*	*	*	*	0	0	0	0	*	*	*
327213	Glass Containers	*	*	*	0	0	*	0	0	0	0	*
327215	Glass Products from Purchased Glass	*	*	*	0	0	0	0	0	*	*	*
327310	Cements	*	*	*	*	*	0	0	*	*	*	*
327410	Lime	*	*	*	0	0	0	0	0	*	0	*
327420	Gypsum	*	*	*	*	0	0	0	0	*	0	*
327993	Mineral Wool	*	*	*	0	0	*	0	0	*	0	*
331	Primary Metals	1	1	1	*	*	*	*	*	*	*	*
331110	Iron and Steel Mills and Ferroalloys	1	1	1	*	*	0	*	*	*	*	*
3312	Steel Products from Purchased Steel	*	*	*	*	0	0	0	*	*	0	*
3313	Alumina and Aluminum	*	*	*	*	0	*	*	0	*	0	*
331314	Secondary Smelting and Alloying of Aluminum	*	*	*	*	0	0	*	0	*	0	*
331315	Aluminum Sheet, Plate and Foils	*	*	*	0	0	0	*	0	*	0	*
331318	Other Aluminum Rolling, Drawing and Extruding	*	*	*	*	0	0	0	0	*	0	*
3314	Nonferrous Metals, except Aluminum	*	*	*	0	0	0	0	0	*	*	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	*	*	*	0	0	0	0	0	0	0	*
3315	Foundries	*	*	*	0	*	0	0	*	*	*	*
331511	Iron Foundries	*	*	*	0	*	0	0	*	*	*	*
331523	Nonferrous Metal Die-Casting Foundries	*	*	*	0	*	0	0	0	*	0	*
331524	Aluminum Foundries, except Die-Casting	*	*	*	0	0	0	0	0	*	*	*
332	Fabricated Metal Products	*	*	*	0	0	0	0	*	*	0	*
333	Machinery	*	*	*	*	0	*	*	0	*	*	*
334	Computer and Electronic Products	*	*	*	0	0	*	0	0	*	0	*
334413	Semiconductors and Related Devices	*	*	*	0	0	*	0	0	*	0	*
335	Electrical Equip., Appliances, and Components	*	*	*	*	0	0	0	0	*	*	*
336	Transportation Equipment	1	1	*	*	0	*	*	*	*	*	*
336111	Automobiles	*	*	*	0	0	0	0	0	*	0	*
336112	Light Trucks and Utility Vehicles	*	*	*	*	0	*	*	0	*	0	*
3364	Aerospace Product and Parts	*	*	*	*	0	*	0	0	*	*	*
336411	Aircraft	*	*	*	0	0	*	0	0	0	0	*
337	Furniture and Related Products	*	*	*	0	0	0	0	0	0	0	*
339	Miscellaneous	*	*	*	*	0	0	0	0	*	0	*
	Total	15	14	7	*	*	*	*	*	2	*	5

(a) The Bureau of the Census classifies establishments using the 2017 North American Industry Classification System (NAICS).
(b) The environmental restrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.
(c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.
(d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.
* 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 percent.
NA=Not available.
Notes: Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Office of Energy Demand and Integrated 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).

Released: February 2021
 Next MECS will be fielded in 2022.

RSE Table 10.24 Relative Standard Errors for Table 10.24;

Unit: Percents.

Non Switchable Amount Attributed to:

NAICS Code(a)	Subsector and Industry	Total Amount of Distillate Fuel Oil Consumed as Fuel	Total Amount of Unswitchable Distillate Fuel Oil Fuel Use	Equipment is Not Capable of Using Another Fuel	Switching Adversely Affects the Products	Unavailable Alternative Fuel Supply	Environmental Restrictions(b)	Long-Term Contract in Place(c)	Unavailable Storage for Alternative Fuels(d)	Another Reason	Combinations of Cols. F, G, H, I, J, and K	Don't Know/ Didn't Answer
Total United States												
311	Food	29.3	29.6	26.9	2.0	20.6	96.8	81.6	0.0	93.4	85.4	15.3
3112	Grain and Oilseed Milling	15.6	16.1	20.6	2.3	0.0	X	81.6	X	10.1	29.0	0.5
311221	Wet Corn Milling	0.0	0.0	0.0	0.0	X	X	X	X	0.0	X	0.0
31131	Sugar Manufacturing	0.0	0.0	0.0	X	X	X	X	X	X	X	0.0
3114	Fruit and Vegetable Preserving and Specialty Food	6.9	6.9	11.5	0.0	X	90.1	X	0.0	3.9	X	10.2
3115	Dairy Product	32.4	35.7	16.9	X	10.0	X	X	0.0	35.7	X	64.3
3116	Animal Slaughtering and Processing	13.8	14.0	7.7	X	X	X	X	X	66.8	0.0	26.7
312	Beverage and Tobacco Products	29.3	31.0	2.4	42.1	0.0	X	X	X	45.7	X	58.4
3121	Beverages	31.3	33.2	2.8	42.1	0.0	X	X	X	46.1	X	58.5
3122	Tobacco	0.0	0.0	0.0	X	X	X	X	X	0.0	X	0.0
313	Textile Mills	21.0	21.7	56.5	X	80.8	X	X	X	74.7	X	9.7
314	Textile Product Mills	28.1	53.2	6.9	X	X	X	X	X	X	X	69.3
315	Apparel	51.8	51.8	X	X	X	X	X	X	X	X	51.8
316	Leather and Allied Products	4.0	4.0	2.2	X	X	X	X	X	0.0	X	94.8
321	Wood Products	31.5	31.6	4.6	36.1	24.1	35.5	0.0	0.0	26.1	0.0	68.7
321113	Sawmills	3.6	3.7	4.2	13.1	25.7	35.5	0.0	X	7.5	0.0	13.2
3212	Veneer, Plywood, and Engineered Woods	3.2	3.2	3.6	96.9	67.0	X	X	0.0	0.0	0.0	5.2
321219	Reconstituted Wood Products	2.7	2.7	2.8	X	X	X	X	X	0.0	0.0	17.7
3219	Other Wood Products	65.7	65.7	18.8	70.9	X	X	X	X	83.9	X	86.0
322	Paper	0.7	0.3	0.1	0.0	0.0	X	X	X	4.3	0.0	0.2
322110	Pulp Mills	0.0	0.0	0.0	X	X	X	X	X	X	X	0.0
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	X	0.0	X	X	X	0.0	0.0	0.0
322122	Newsprint Mills	0.0	0.0	0.0	X	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	X	X	X	0.0	X	0.0
323	Printing and Related Support	43.0	43.0	49.7	0.0	X	X	X	X	53.5	X	76.2
324	Petroleum and Coal Products	8.9	9.3	5.5	20.9	77.5	42.6	26.7	80.3	0.1	17.6	13.4
324110	Petroleum Refineries	0.0	0.0	0.0	X	X	X	X	X	0.0	X	0.0
324121	Asphalt Paving Mixture and Block	15.2	16.2	10.9	20.9	77.5	42.6	26.7	82.4	0.3	17.6	20.2
324122	Asphalt Shingle and Coating Materials	0.9	1.0	0.0	X	X	X	X	X	0.0	X	3.9
324191	Petroleum Lubricating Oil and Grease Products	51.2	51.2	3.1	X	X	X	X	X	0.0	X	63.0
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	X	X	X	X	0.0	0.0	X	0.0
325	Chemicals	2.2	2.2	1.5	51.4	17.5	4.1	0.0	78.0	2.9	0.3	7.1
325110	Petrochemicals	0.0	0.0	0.0	0.0	0.0	X	X	X	0.0	X	0.0
325120	Industrial Gases	0.0	0.0	0.0	X	X	X	X	X	X	X	0.0
325180	Other Basic Inorganic Chemicals	3.2	3.5	5.7	X	X	X	0.0	X	11.0	X	2.9
325193	Ethyl Alcohol	2.8	2.8	3.6	X	X	X	X	X	8.1	X	4.5
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0	0.0	0.0	X	X	X	0.0	0.0	0.0
325199	Other Basic Organic Chemicals	9.2	9.3	4.4	55.6	75.4	49.9	X	0.0	0.1	X	24.7
325211	Plastics Materials and Resins	D	D	D	X	0.0	0.0	X	0.0	64.3	50.5	3.7
325212	Synthetic Rubber	0.0	0.0	0.0	X	X	X	X	X	0.0	0.0	0.0
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0	X	0.0	X	X	X	0.0	X	0.0
325311	Nitrogenous Fertilizers	2.7	3.1	3.4	0.0	X	X	X	X	X	X	0.0
325312	Phosphatic Fertilizers	D	D	D	X	X	X	X	X	X	X	0.0
3254	Pharmaceuticals and Medicines	2.6	3.1	3.8	X	X	X	0.0	X	0.0	0.0	7.6
325412	Pharmaceutical Preparation	2.9	3.6	4.5	X	X	X	0.0	X	0.0	0.0	12.1
325992	Photographic Film, Paper, Plate, and Chemicals	0.1	0.1	0.0	60.3	X	X	X	X	X	X	0.0
326	Plastics and Rubber Products	64.9	65.1	79.4	X	X	X	X	X	59.3	62.7	61.7
327	Nonmetallic Mineral Products	16.7	16.9	23.6	76.1	0.0	0.0	99.0	0.0	46.1	96.8	27.0

327120	Clay Building Material and Refractories	2.2	2.2	2.3	X	X	0.0	X	X	0.0	0.0	15.8
327211	Flat Glass	0.0	0.0	0.0	X	0.0	0.0	X	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	0.7	0.7	1.9	0.0	X	X	X	X	0.0	X	0.0
327213	Glass Containers	0.0	0.0	0.0	X	X	0.0	X	X	X	X	0.0
327215	Glass Products from Purchased Glass	26.8	30.5	33.8	X	X	X	X	X	0.0	X	54.6
327310	Cements	0.3	0.3	0.6	0.0	0.0	X	X	0.0	0.1	X	0.0
327410	Lime	0.0	0.0	0.0	X	X	X	X	X	0.0	X	0.0
327420	Gypsum	47.3	47.3	1.1	0.0	X	X	X	X	0.0	X	78.9
327993	Mineral Wool	0.1	0.1	0.1	X	X	0.0	X	X	0.0	X	0.0
331	Primary Metals	0.9	0.9	1.4	1.0	0.0	0.0	0.0	1.6	0.4	24.4	0.8
331110	Iron and Steel Mills and Ferroalloys	0.0	0.0	0.0	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0
3312	Steel Products from Purchased Steel	11.1	11.2	23.0	16.1	X	X	X	59.6	4.8	X	3.3
3313	Alumina and Aluminum	0.7	0.7	0.6	0.0	X	0.0	0.0	X	0.0	X	5.6
331314	Secondary Smelting and Alloying of Aluminum	2.8	2.8	2.2	0.0	X	X	0.0	X	0.0	X	9.4
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0	X	X	X	0.0	X	0.0	X	0.0
331318	Other Aluminum Rolling, Drawing and Extruding	0.3	0.1	0.2	0.0	X	X	X	X	0.0	X	0.0
3314	Nonferrous Metals, except Aluminum	5.2	5.2	10.3	X	X	X	X	X	33.0	77.7	0.0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.2	0.2	0.4	X	X	X	X	X	X	X	0.0
3315	Foundries	1.6	1.6	2.6	X	0.0	X	X	0.0	0.5	0.0	2.1
331511	Iron Foundries	0.8	0.8	1.5	X	0.0	X	X	0.0	1.0	0.0	0.0
331523	Nonferrous Metal Die-Casting Foundries	5.6	5.6	2.0	X	0.0	X	X	X	0.0	X	56.5
331524	Aluminum Foundries, except Die-Casting	1.6	1.6	14.0	X	X	X	X	X	0.0	0.0	6.9
332	Fabricated Metal Products	69.1	39.6	53.2	X	X	X	X	99.5	68.5	X	66.4
333	Machinery	29.7	29.7	48.6	99.0	X	31.3	95.2	X	61.1	99.0	27.0
334	Computer and Electronic Products	57.2	57.4	14.4	X	X	36.7	X	X	4.0	X	87.5
334413	Semiconductors and Related Devices	1.2	0.9	0.9	X	X	0.0	X	X	4.0	X	11.5
335	Electrical Equip., Appliances, and Components	23.6	25.0	31.1	91.7	X	X	X	X	54.9	90.0	39.7
336	Transportation Equipment	26.4	26.6	26.0	96.8	X	7.0	0.0	61.5	34.1	89.9	79.9
336111	Automobiles	0.0	0.0	0.0	X	X	X	X	X	0.0	X	0.0
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0	0.0	X	0.0	0.0	X	0.0	X	0.0
3364	Aerospace Product and Parts	3.9	3.9	4.4	0.0	X	29.8	X	X	0.0	0.0	2.4
336411	Aircraft	8.0	8.0	0.0	X	X	85.7	X	X	X	X	0.0
337	Furniture and Related Products	60.4	61.1	69.6	X	X	X	X	X	X	X	87.9
339	Miscellaneous	59.8	59.8	87.4	52.2	X	X	X	X	41.2	X	82.8
	Total	7.9	8.2	6.6	26.4	22.4	88.1	25.4	69.9	36.8	39.1	17.4

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

(b) The environmental restrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.

(c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.

(d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

* 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 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.

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

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