

Table 2.2 Nonfuel (Feedstock) Use of Combustible Energy, 2006

Level: National and Regional Data;

Row: NAICS Codes; Column: Energy Sources

Unit: Trillion Btu.

NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)
Total United States									
311	Food	3	0	*	2	*	0	*	*
3112	Grain and Oilseed Milling	3	0	*	2	*	0	0	*
311221	Wet Corn Milling	*	0	0	0	0	0	0	*
31131	Sugar Manufacturing	*	0	*	0	*	0	*	0
3114	Fruit and Vegetable Preserving and Specialty Food	*	0	0	0	*	0	0	0
3115	Dairy Product	*	0	*	*	0	0	0	*
3116	Animal Slaughtering and Processing	*	0	*	*	0	0	0	*
312	Beverage and Tobacco Products	*	0	*	0	*	0	0	0
3121	Beverages	*	0	*	0	0	0	0	0
3122	Tobacco	*	0	0	0	*	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	0	0	0	0	0	0	0	0
321	Wood Products	7	*	6	*	*	0	0	*
321113	Sawmills	Q	*	Q	0	*	0	0	*
3212	Veneer, Plywood, and Engineered Woods	*	0	*	*	*	0	0	*
3219	Other Wood Products	Q	0	Q	0	*	0	0	*
322	Paper	1	0	*	0	*	0	0	*
322110	Pulp Mills	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	0	*	0	*	0	0	*
322122	Newsprint Mills	*	0	*	0	0	0	0	0
322130	Paperboard Mills	*	0	*	0	*	0	0	*
323	Printing and Related Support	*	0	*	0	*	0	0	0
324	Petroleum and Coal Products	3,572	0	Q	0	*	49	1	3,512
324110	Petroleum Refineries	3,399	0	0	0	0	0	0	3,399
324199	Other Petroleum and Coal Products	164	0	*	0	0	49	1	113
325	Chemicals	2,659	64	1	355	2,141	15	3	81
325110	Petrochemicals	W	0	*	*	W	0	0	1
325120	Industrial Gases	49	0	0	49	*	0	0	*
325181	Alkalies and Chlorine	1	0	*	*	0	0	0	*
325182	Carbon Black	74	64	0	11	0	0	0	0
325188	Other Basic Inorganic Chemicals	28	0	*	11	8	0	3	6
325192	Cyclic Crudes and Intermediates	1	0	0	*	0	*	0	*
325193	Ethyl Alcohol	3	0	*	2	*	0	0	1
325199	Other Basic Organic Chemicals	W	0	*	74	W	13	0	36
325211	Plastics Materials and Resins	1,198	*	*	11	1,180	0	0	7
325212	Synthetic Rubber	*	0	0	*	*	0	0	*
325222	Noncellulosic Organic Fibers	12	0	0	7	*	0	0	6
325311	Nitrogenous Fertilizers	177	0	*	176	*	0	0	*
325312	Phosphatic Fertilizers	8	*	*	8	0	0	0	0
3254	Pharmaceuticals and Medicines	1	0	*	*	*	0	0	*
325412	Pharmaceutical Preparation	*	0	*	*	*	0	0	*
325992	Photographic Film, Paper, Plate, and Chemicals	*	0	0	*	*	0	0	0
326	Plastics and Rubber Products	Q	0	*	Q	0	0	0	0
327	Nonmetallic Mineral Products	12	0	*	1	*	*	0	12
327211	Flat Glass	8	0	0	0	*	*	0	8
327212	Other Pressed and Blown Glass and Glassware	Q	0	*	0	*	0	0	Q
327213	Glass Containers	*	0	0	0	0	0	0	*
327215	Glass Products from Purchased Glass	*	0	0	*	*	0	0	*
327310	Cements	*	0	*	0	0	0	0	*
327410	Lime	*	0	*	0	*	0	0	*
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	*	*	*	0	0	*
331	Primary Metals	514	*	1	42	*	352	52	67
331111	Iron and Steel Mills	431	0	*	32	*	345	44	9
331112	Electrometallurgical Ferroalloy Products	5	0	0	*	0	3	2	*
3312	Steel Products from Purchased Steel	12	0	0	1	*	*	*	12
3313	Alumina and Aluminum	19	*	*	9	*	0	0	10
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	0	*	0	0	*

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325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	*	*	*	0	0	*
325412	Pharmaceutical Preparation	*	0	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	0	0	0
327	Nonmetallic Mineral Products	8	0	*	0	*	0	0	8
327211	Flat Glass	8	0	0	0	*	0	0	8
327212	Other Pressed and Blown Glass and Glassware	*	0	*	0	*	0	0	*
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0
327310	Cements	*	0	*	0	0	0	0	0
327410	Lime	0	0	0	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	*	0	*	0	0	*
331	Primary Metals	185	0	0	1	*	139	3	Q
331111	Iron and Steel Mills	145	0	0	1	*	139	*	5
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	*	0	0	*	0	*	0	*
3313	Alumina and Aluminum	2	0	0	*	*	0	0	2
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	0	*	0	0	*
331315	Aluminum Sheet, Plate and Foils	*	0	0	*	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	Q	0	0	0	*	0	3	Q
3315	Foundries	1	0	0	*	*	0	1	*
331511	Iron Foundries	1	0	0	0	*	0	1	*
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	0	0	*	0	0	0	0
332	Fabricated Metal Products	*	0	*	*	*	0	0	*
333	Machinery	0	0	0	0	0	0	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	0	0
336	Transportation Equipment	*	0	0	0	*	0	0	*
336111	Automobiles	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	0	0	0	*	0	0	*
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	485	0	Q	2	8	144	4	Q
Midwest Census Region									
311	Food	3	0	*	2	*	0	*	*
3112	Grain and Oilseed Milling	2	0	*	2	*	0	0	*
311221	Wet Corn Milling	*	0	0	0	0	0	0	*
31131	Sugar Manufacturing	*	0	0	0	0	0	*	0
3114	Fruit and Vegetable Preserving and Specialty Food	0	0	0	0	0	0	0	0
3115	Dairy Product	*	0	0	*	0	0	0	*
3116	Animal Slaughtering and Processing	*	0	0	*	0	0	0	*
312	Beverage and Tobacco Products	*	0	*	0	0	0	0	0
3121	Beverages	*	0	*	0	0	0	0	0
3122	Tobacco	0	0	0	0	0	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	0	0	0	0	0	0	0	0
321	Wood Products	Q	0	Q	0	*	0	0	*
321113	Sawmills	*	0	*	0	*	0	0	*
3212	Veneer, Plywood, and Engineered Woods	*	0	0	0	*	0	0	*
3219	Other Wood Products	Q	0	Q	0	*	0	0	*

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NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)
322	Paper	*	0	0	0	*	0	0	*
322110	Pulp Mills	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	*	0	0	0	*	0	0	0
322122	Newsprint Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	*	0	0	0	*	0	0	*
323	Printing and Related Support	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	499	0	Q	0	*	0	0	492
324110	Petroleum Refineries	481	0	0	0	0	0	0	481
324199	Other Petroleum and Coal Products	11	0	0	0	0	0	0	11
325	Chemicals	172	8	*	34	110	1	0	Q
325110	Petrochemicals	W	0	0	*	W	0	0	*
325120	Industrial Gases	4	0	0	4	0	0	0	*
325181	Alkalies and Chlorine	0	0	0	0	0	0	0	0
325182	Carbon Black	9	8	0	1	0	0	0	0
325188	Other Basic Inorganic Chemicals	9	0	*	1	8	0	0	*
325192	Cyclic Crudes and Intermediates	*	0	0	0	0	0	0	*
325193	Ethyl Alcohol	2	0	*	1	*	0	0	1
325199	Other Basic Organic Chemicals	1	0	*	1	*	0	0	*
325211	Plastics Materials and Resins	W	0	0	*	W	0	0	*
325212	Synthetic Rubber	*	0	0	*	0	0	0	*
325222	Noncellulosic Organic Fibers	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	25	0	0	25	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
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	0	0
326	Plastics and Rubber Products	*	0	*	0	0	0	0	0
327	Nonmetallic Mineral Products	Q	0	0	*	*	0	0	Q
327211	Flat Glass	*	0	0	0	0	0	0	*
327212	Other Pressed and Blown Glass and Glassware	Q	0	0	0	0	0	0	Q
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	*	0	0	*	*	0	0	*
327310	Cements	0	0	0	0	0	0	0	0
327410	Lime	0	0	0	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	0	*	*	0	0	0
331	Primary Metals	237	*	*	25	*	149	45	18
331111	Iron and Steel Mills	217	0	0	25	*	148	42	2
331112	Electrometallurgical Ferroalloy Products	2	0	0	*	0	*	2	*
3312	Steel Products from Purchased Steel	12	0	0	*	*	0	0	12
3313	Alumina and Aluminum	3	*	*	*	*	0	0	3
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	*	*	*	*	*	0	0	*
3314	Nonferrous Metals, except Aluminum	1	0	0	0	*	0	1	*
3315	Foundries	1	0	*	*	*	0	*	1
331511	Iron Foundries	1	0	0	*	0	0	*	1
331521	Aluminum Die-Casting Foundries	*	0	0	0	*	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	0	0	*	*	0	0	*
332	Fabricated Metal Products	*	0	0	0	*	0	0	*
333	Machinery	*	0	*	0	0	0	0	*
334	Computer and Electronic Products	*	0	0	0	0	0	0	*
334413	Semiconductors and Related Devices	*	0	0	0	0	0	0	*
335	Electrical Equip., Appliances, and Components	*	0	0	*	0	0	0	*
336	Transportation Equipment	1	0	*	*	*	0	0	*
336111	Automobiles	*	0	0	0	*	0	0	*
336112	Light Trucks and Utility Vehicles	*	0	0	0	0	0	0	*
3364	Aerospace Product and Parts	*	0	0	0	*	0	0	*
336411	Aircraft	*	0	0	0	0	0	0	*
337	Furniture and Related Products	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	918	8	Q	61	111	150	45	533

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NAICS Code(a)	Subsector and Industry	Total	Residual Fuel Oil	Distillate Fuel Oil(b)	Natural Gas(c)	LPG and NGL(d)	Coal	Coke and Breeze	Other(e)
325311	Nitrogenous Fertilizers	4	0	*	4	*	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	*	0	*	0	0	0	0	0
325412	Pharmaceutical Preparation	0	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	*	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	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	0	0	0	0	*
327410	Lime	*	0	0	0	*	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	*	0	*	0	0	0	0	0
331	Primary Metals	2	0	0	*	*	*	1	1
331111	Iron and Steel Mills	1	0	0	0	0	*	1	*
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	*	0	0	0	*	0	0	*
3313	Alumina and Aluminum	*	0	0	0	*	0	0	*
331314	Secondary Smelting and Alloying of Aluminum	*	0	0	0	0	0	0	*
331315	Aluminum Sheet, Plate and Foils	*	0	0	0	0	0	0	*
331316	Aluminum Extruded Products	*	0	0	0	*	0	0	0
3314	Nonferrous Metals, except Aluminum	1	0	0	0	*	0	0	1
3315	Foundries	*	0	0	*	*	0	*	*
331511	Iron Foundries	*	0	0	*	0	0	*	*
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	*	0	0	0	0	0	0	*
332	Fabricated Metal Products	*	0	0	0	*	0	0	*
333	Machinery	0	0	0	0	0	0	0	0
334	Computer and Electronic Products	*	0	0	0	*	0	0	*
334413	Semiconductors and Related Devices	*	0	0	0	0	0	0	*
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0
336	Transportation Equipment	*	0	0	0	*	0	0	*
336111	Automobiles	*	0	0	0	0	0	0	*
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	*	0	0	0	*	0	0	*
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	395	0	*	7	*	20	4	364

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

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

(c) '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.

(d) Examples of Liquefied Petroleum Gases (LPG) are 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).'

(e) 'Other' includes energy that respondents indicated was used as feedstock/raw material inputs. See also Footnote 'f'.

(f) For the petroleum refining industry only (NAICS 324110), the feedstocks and raw material inputs for the production of nonenergy products (i.e., asphalt, waxes, lubricants, and solvents) and feedstock consumption at adjoining petrochemical plants are included in the 'Other' column, regardless of type of energy. Those inputs and feedstocks that were converted to other energy products (e.g., crude oil converted to residual and distillate fuel oils) are excluded.

NF=No applicable RSE row/column factor.

Released: July 2009

Next MECS will be conducted in 2010

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* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

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

NA=Not available.

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. 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 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; woodchips, bark, and woodwaste 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: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey,' and Office of Oil and Gas, Petroleum Supply Division, Form EIA-810, 'Monthly Refinery Report' for 2006.