Released: February 2018

Release: reordary 2018 Next MECS will be fielded in 2019 Table 1.4 Number of Establishments by First Use of Energy for All Purposes (Fuel and Nonfuel), 2014; Level: National Data; Row: NAICS Codes; Column: Energy Sources and Shipments; Unit: Establishment Counts.

AICS Code(a	a) Subsector and Industry	Any Energy Source(b)	Net Electricity(c)		Distillate Fuel Oil(d)	Natural Gas(e)	HGL (excluding natural gasoline)(f)	Coal	Coke and Breeze	Other(g)	Energy Source Produced Onsite(
		Total United States									
11	Food	13,690	13,653	91	2,373	10,270	3,941	51	12	1,522	,
3112	Grain and Oilseed Milling	600	600	W	224	513	217	23	0	155	
311221	Wet Corn Milling	49	49	0	30	44	26	14	0	30	
31131 8114	Sugar Manufacturing	71 985	71 985	5	28 267	60 794	15	23 W	12	36 123	
114	Fruit and Vegetable Preserving and Specialty Food Dairy Product	985	985	16	161	803	396 207	W	0	63	
3115	Animal Slaughtering and Processing	1,603	1,603	24	282	1,349	260	w	0	135	
12	Beverage and Tobacco Products	2,443	2,443	W	401	1,224	1,178	12	0	256	
3121	Beverages	2,369	2,369	0	373	1,164	1,141	W	0	240	
3122	Торассо	74	74	W	28	60	38	W	0	16	
13	Textile Mills	1,355	1,355	Q	156	928	482	W	0	144	
14 15	Textile Product Mills	4,277 3,874	4,277 3,874	W	53	2,626	1,231	7	0	W W	
15	Apparel Leather and Allied Products	466	3,874	W	Q 16	1,174 283	Q 135	0	0	16	
21	Wood Products	8,398	8,316		2,218	3,529	4,018	w	0	1,856	
321113	Sawmills	1,619	1,609	W	755	253	526	W	0	567	
3212	Veneer, Plywood, and Engineered Woods	973	973	W	323	499	487	W	0	271	
321219	Reconstituted Wood Products	154	154	W	75	129	130	W	0	82	
3219	Other Wood Products	5,558	5,486	W	991	2,646	2,962	0	0	966	
22	Paper	3,220	3,220	83	403	2,762	1,580	71	0	306	
322110	Pulp Mills	28	28	W 26	23	23	22	W	0	25	
322121 322122	Paper Mills, except Newsprint Newsprint Mills	165	165 18	36	87	159 14	104	37 W	0	83 18	
322122	Paperboard Mills	18	18	33	92	14	13	26	0	18	
23	Printing and Related Support	14,005	14,005	W	334	9,056	2,329	0	0	513	
24	Petroleum and Coal Products	1,918	1,904	105	837	1,420	618	26	W	1,402	
324110	Petroleum Refineries	174	174	W	67	168	103	w	0	109	
324121	Asphalt Paving Mixture and Block	1,285	1,275	96	583	875	248	0	0	1,094	
324122	Asphalt Shingle and Coating Materials	162	158	W	59	144	135	W	0	138	
324199	Other Petroleum and Coal Products	86	86	0	48	73	43	20	W	43	
25 325110	Chemicals	8,530 44	8,530 44	60	1,611 20	6,759 33	3,035	65 0	W	1,352 22	
325110	Petrochemicals Industrial Gases	44	44	W	59	203	33 54	0	0	49	
325120	Other Basic Inorganic Chemicals	511	511	9	201	412	206	8	w	153	
325193	Ethyl Alcohol	211	211	0	69	200	44	10	0	52	
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	69	69	0	22	44	20	0	0	13	
325199	Other Basic Organic Chemicals	518	518	W	218	457	293	10	0	207	
325211	Plastics Materials and Resins	844	844	Q	164	687	403	Q	0	158	
325212	Synthetic Rubber	85	85	0	22	73	40	w	0	20	
325220	Artificial and Synthetic Fibers and Filaments	89	89	3	16	73	40	5	0	12	
325311 325312	Nitrogenous Fertilizers	133	133	W	30	120	22	0 W	0	25	
325312	Phosphatic Fertilizers Pharmaceuticals and Medicines	57 1,199	57 1,199	0	28 182	34 952	18 231	W	0	19 75	
325412	Pharmaceutical Preparation	601	601	0	182	516	73	W	0	51	
325992	Photographic Film, Paper, Plate, and Chemicals	121	121	w	110	106	29	0	0	11	
26	Plastics and Rubber Products	8,217	8,217	0	661	6,276	4,657	W	0	1,234	
27	Nonmetallic Mineral Products	12,184	12,174	Q	4,217	7,450	4,062	177	14	1,882	
327120	Clay Building Material and Refractories	446	446	W	190	407	226	17	0	148	
327211	Flat Glass	50	50	0	35	47	37	W	0	32	
327212	Other Pressed and Blown Glass and Glassware	194	194	0	24	174	49	0	0	38	
327213	Glass Containers	59	59	0	42	59	43	0	0	23	
327215 327310	Glass Products from Purchased Glass Cements	683 189	683 189	W	54 135	513 81	326 49	W 85	0	112 85	
327310	Lime	83	83		50	45	49	44	8 W	32	
327420	Gypsum	122	122	0	61	72	82	0	0	22	
327993	Mineral Wool	186	186	W	35	139	86	0	W	28	
31	Primary Metals	3,138	3,129	10	915	2,723	1,769	69	95	906	
331110	Iron and Steel Mills and Ferroalloys	345	345	W	165	314	164	38	20	167	
312	Steel Products from Purchased Steel	470	470	0	145	348	321	Q	0	173	
313	Alumina and Aluminum	383	374	4	118	357	212	0	0	108	
331314 331315	Secondary Smelting and Alloying of Aluminum Aluminum Sheet, Plate and Foils	96 57	96 57	0	34 21	85 55	46 37	0	0	17 20	
331315 331318	Aluminum Sheet, Plate and Folis Other Aluminum Rolling, Drawing and Extruding	57 191	57		32	181	111	0	0	51	
331318	Nonferrous Metals, except Aluminum	662	662	0	126	517	341	8	17	161	
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	108	108	0	30	96	79		3	35	
315	Foundries	1,278	1,278	W	362	1,187	731	12	58	296	
331511	Iron Foundries	320	320	W	196	305	216	12	58	107	
331523	Nonferrous Metal Die-Casting Foundaries	254	254	0	29	230	135	0	0	75	
331524	Aluminum Foundries, except Die-Casting	268	268	W	40	246	162	0	0	64	
32	Fabricated Metal Products	36,439	36,439	0	3,697	24,831	15,762	W	0	5,740	
33	Machinery	15,307	15,307	Q	1,027	11,626	6,466	W	0	2,026	
34	Computer and Electronic Products	6,831	6,831	W	504	4,591	1,487	0	0	677	
334413 15	Semiconductors and Related Devices Electrical Equip., Appliances, and Components	388 3,298	388 3,298	W 0	95 244	293 2,332	65 1,090	0	0 W	44 431	
35 36	Transportation Equipment	6,603	6,603	6	1,042	2,332	3,449	6	W	1,245	
36 336111	Automobiles	6,603	6,603		1,042	5,193	3,449		0	1,245	
336112	Light Trucks and Utility Vehicles	37	37	0	28	33	23	W	0	22	
364	Aerospace Product and Parts	1,063	1,063	w	139	839	461	0	0	191	
336411	Aircraft	293	293	W	Q	247	65	0	0	Q	
	Furniture and Related Products	7,913	7,913	0	Q Q	4,511	3,274	w	0	539	

339	Miscellaneous	13,001	12,906	w	552	8,289	2,7	77 C	0	480	0
	Total	175,107	174,860	743	21,774	117,852	63,6	55 549	129	22,572	100
(a) The Bur	(a) The Bureau of the Census classifies establishments using the 2012 North American Industry Classification System (NAICS).										

(b) 'Any 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 2014.

(c) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal). (d) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(e) '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. (f) 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).

(g) '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. (h) 'Shipments of Energy Sources Produced Onsite' are those shipments produced or transformed onsite from the nonfuel use of other energy sources. For example, at an establishment that processes coal to make coke for later use, the entire quantity of coal is counted as first use. Any onsite consumption of coke is not counted as first use because it would duplicate the coal use. If some of the coke is then sold to another establishment, then that second establishment will consider this coke to be a shipment of an offsite-produced energy source. Hence, the second establishment will count this coke as its first use, thereby resulting in double counting. In order to eliminate the double counting, the energy equivalent of the coke shipment must be subtracted from first use.

* 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: 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 (nosite) 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, '2014 Manufacturing Energy Consumption Survey.'

Released: February 2018 Next MECS will be fielded in 2019 RSE Table 1.4 Relative Standard Errors for Table 1.4; Unit: Percents.

NAICS Code(a	a) Subsector and Industry	Any Energy Source(b)	Net Electricity(c)	Residual Fuel Oil	Distillate Fuel Oil(d)	Natural Gas(e)	HGL (excluding natural gasoline)(f)	Coal	Coke and Breeze	Other(g)	Shipments of Energy Sources Produced Onsite(h)
		Total United Sta	tes								
311	Food	0.0	0.2	30.8	11.9	3.7	9.6	2.2	0.1	15.7	4.2
3112	Grain and Oilseed Milling	0.0	0.1	31.6	11.6	4.2	14.8	4.5	X	12.6	4.2
311221	Wet Corn Milling		0.0	X	0.0	0.0	0.0	0.0	X	0.0	0.0
31131 3114	Sugar Manufacturing Fruit and Vegetable Preserving and Specialty Food	0.0	0.1	0.1 14.1	0.1	0.1 6.7	0.1 12.9	0.1 9.2	0.1 X	0.1 21.9	×
3114	Dairy Product	0.0	0.1	23.7	19.0	4.9	17.4	7.1	X	18.6	x
3116	Animal Slaughtering and Processing	0.0		18.2	11.5	4.0	13.1	27.8	Х	17.4	X
312	Beverage and Tobacco Products	0.0		0.1	18.3	9.0	9.5	5.0	X	25.7	×
3121 3122	Beverages Tobacco	0.0	0.1	X 0.1	19.7	9.4	9.8	7.0	X	27.5	X
313	Textile Mills	0.0		54.0	28.8	8.7	16.4	52.6	X	34.5	×
314	Textile Product Mills	0.0	0.1	16.9	42.4	16.9	32.2	30.5	Х	51.3	X
315	Apparel	0.0	0.1	X	74.0	41.4	58.5	X	X	41.8	×
316 321	Leather and Allied Products Wood Products	0.0	0.1	70.4	21.3	13.3 7.6	22.9	X 8.3	X	24.1	×
321113	Sawmills	0.0		5.5	6.7	10.2	9.4	5.5	X	8.3	x
3212	Veneer, Plywood, and Engineered Woods	0.0		17.7	14.9	10.6	11.2	17.7	Х	14.0	X
321219	Reconstituted Wood Products	0.0	0.1	17.7	19.0	6.2	4.1	17.7	Х	18.7	X
3219 322	Other Wood Products Paper	0.0 0.0	1.3	7.6 0.7	16.4 14.5	9.9 5.5	8.8 12.7	X 0.8	X	18.3 12.2	X
322 322110	Pulp Mills	0.0		0.7	0.0	0.0	0.0	0.8	X	0.0	X
322121	Paper Mills, except Newsprint	0.0	0.1	0.1	0.1	0.1	0.1	0.1	X	0.1	x
322122	Newsprint Mills	0.0		Х	0.0	0.0	0.0	0.0	X	0.0	X
322130	Paperboard Mills	0.0		0.0	0.0	0.0	0.0	0.0	X	0.0	X
323 324	Printing and Related Support Petroleum and Coal Products	0.0		52.1 13.0	38.7	5.6 2.4	16.1	X 9.3	X 0.0	35.4 3.4	X 3.8
324110	Petroleum Refineries	0.0	0.1	36.2	36.2	1.4	25.4	36.2	X	36.2	X
324121	Asphalt Paving Mixture and Block	0.0		13.9	5.1	3.2	13.7	Х	Х	2.3	58.0
324122	Asphalt Shingle and Coating Materials	0.0	1.8	4.0	8.0	3.6	3.4	56.5	Х	3.7	18.5
324199 325	Other Petroleum and Coal Products Chemicals	0.0 0.0	0.0	X 33.6	0.0	0.0	0.0	0.0 13.7	0.0	0.0	0.0
325110	Petrochemicals	0.0		26.6	26.6	26.6	9.1	15.7 X	X	26.6	26.6
325120	Industrial Gases	0.0		X	40.2	18.0	39.7	X	X	43.6	43.8
325180	Other Basic Inorganic Chemicals	0.0	0.1	12.7	18.9	8.7	18.2	22.6	12.7	20.5	X
325193	Ethyl Alcohol	0.0	0.1	X	15.1	1.0	25.1	15.5	X	20.9	X
325194 325199	Cyclic Crudes, Intermediate and Gum and Wood Chemicals Other Basic Organic Chemicals	0.0	0.0	X 12.4	0.0	0.0	0.0	X 21.8	X	0.0	X 12.4
3252135	Plastics Materials and Resins	0.0	0.1	59.3	14.0	5.6	11.4	53.7	X	17.9	8.1
325212	Synthetic Rubber	0.0	0.0	X	0.0	0.0	0.0	0.0	Х	0.0	X
325220	Artificial and Synthetic Fibers and Filaments	0.0		0.0	0.0	0.0	0.0	0.0	X	0.0	X
325311 325312	Nitrogenous Fertilizers Phosphatic Fertilizers	0.0		22.9	24.5	2.6	26.4	X 0.0	X	25.4	22.9 X
325512	Phosphatic retifiers Pharmaceuticals and Medicines	0.0	0.0	0.0 X	16.2	6.7	25.4	13.9	X	17.3	X
325412	Pharmaceutical Preparation	0.0		X	22.8	5.7	22.9	13.9	X	23.5	X
325992	Photographic Film, Paper, Plate, and Chemicals	0.0	0.1	25.5	25.5	6.3	35.7	Х	Х	25.5	X
326	Plastics and Rubber Products	0.0	0.1	X	27.7	4.8	7.5	90.4	X	19.8	X
327 327120	Nonmetallic Mineral Products Clay Building Material and Refractories	0.0	0.1	85.6 42.1	10.6	6.3 2.3	10.6	18.7 9.4	20.3 X	16.5 11.3	X
327211	Flat Glass	0.0		×2.1	0.0	0.0	0.0	0.0	X	0.0	X
327212	Other Pressed and Blown Glass and Glassware	0.0		Х	23.5	5.3	22.8	Х	Х	41.9	x
327213	Glass Containers	0.0		X	0.0	0.0	0.0	Х	Х	0.0	x
327215 327310	Glass Products from Purchased Glass Cements	0.0	0.1	80.6 31.9	11.4	8.0 32.2	13.6	82.3 31.9	X 33.3	26.6	X
327310	Lime	0.0	0.1	X	0.0	0.0	0.0	0.0	0.0	0.0	x
327420	Gypsum	0.0	0.1	X	17.3	17.6	15.7	X	X	17.3	x
327993	Mineral Wool	0.0	0.1	62.8	25.6	14.6	27.8	Х	24.9	28.8	x
331 331110	Primary Metals Iron and Steel Mills and Ferroallovs	0.0 0.0		4.4	6.3 3.6	2.0 0.3	4.2	12.0 3.3	17.8 3.3	5.2 3.5	6.1
331110	Steel Products from Purchased Steel	0.0		3.3 X	22.4	10.3	8.0	3.3 68.6	X	15.9	
3313	Alumina and Aluminum	0.0		7.4	5.0	0.3	5.9	X	X	8.9	21.4
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.1	х	0.1	0.1	0.1	х	X	0.1	X
331315	Aluminum Sheet, Plate and Foils	0.0		X	21.4	0.7	11.8	X	X	21.4	21.4
331318 3314	Other Aluminum Rolling, Drawing and Extruding Nonferrous Metals, except Aluminum	0.0		10.0 X	11.7	0.6	10.6	X 34.5	X 20.1	16.8 14.5	X
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0.0		x	37.4	4.8	13.7	37.4	37.4	37.4	X
3315	Foundries	0.0	0.1	9.4	11.9	1.4	8.0	18.5	28.6	9.4	18.5
331511	Iron Foundries	0.0		18.5	17.7	1.5	16.6	18.5	28.6	20.8	18.5
331523 331524	Nonferrous Metal Die-Casting Foundaries Aluminum Foundries, except Die-Casting	0.0		X 7.9	18.5 28.7	2.3	12.1	x	X	14.3	X
332	Fabricated Metal Products	0.0		7.9 X	19.0	4.5	7.5	4.5	X	11.1	x
333	Machinery	0.0		56.9	23.5	3.8	7.8	87.7	X	16.4	x
334	Computer and Electronic Products	0.0		11.6	28.7	7.1	18.9	Х	X	27.7	X
334413	Semiconductors and Related Devices	0.0		20.1	24.7	10.9	29.5	X	X	20.1	x
335 336	Electrical Equip., Appliances, and Components Transportation Equipment	0.0		X 8.2	37.3 21.8	8.8 5.6	18.4	X 15.2	9.9 19.6	30.3 19.4	X
336111	Automobiles	0.0		8.2 X	0.0	0.0	0.0	0.0	X	0.0	X
336112	Light Trucks and Utility Vehicles	0.0		x	0.0	0.0	0.0	0.0	X	0.0	x
3364	Aerospace Product and Parts	0.0		11.4	30.9	6.8	13.8	Х	Х	25.5	x
336411	Aircraft	0.0		25.8	60.0	13.6	42.4	X	X	50.6	X
337 339	Furniture and Related Products Miscellaneous	0.0		X 6.0	50.3 35.5	8.6 6.2	11.5	59.6 X	X	33.4 40.5	X
						0.2	10.0	~			~ ~

(a) The Bureau of the Census classifies establishments using the 2012 North American Industry Classification System (NAICS).

(b) 'Any 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 2014.

(c) 'Net Electricity' is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal). (d) 'Distillate Fuel Oil' includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

(e) '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. (f) 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).

(g) '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. (h) 'Shipments of Energy Sources Produced Onsite' are those shipments produced or transformed onsite from the nonfuel use of other energy sources. For example, at an establishment that processes coal to make coke for later use, the entire quantity of coal is counted as first use. Any onsite consumption of coke is not counted as first use because it would duplicate the coal use. If some of the coke is then sold to another establishment, then that second establishment will consider this coke to be a shipment of an offsite-produced energy source. Hence, the second establishment will count this coke as its first use, thereby resulting in double counting. In order to eliminate the double counting, the energy equivalent of the coke shipment must be subtracted from first use.

* Estimate less than 0.5.

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

NA=Not available.

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

-- Estimation is not applicable. Energy source is not included in series.

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 there energy inputs and, therefore, avoids double counting.

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.'