Released: February 2018

Next MECS will be fielded in 2019 Table 10.13 Number of Establishments with Capability to Switch HGL (excluding natural gasoline) to Alternative Energy Sources, 2014;

- Level: National Data; Row: NAICS Codes; Column: Energy Sources; Unit: Establishment Counts.

		HGL (excluding natural gasoline)(b)					Alternative Energy Sources(c)					
AICS ode(a)	Subsector and Industry	Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	Coal Coke and Breeze	Other	
(-)		Total United State										
11 8112	Food Grain and Oilseed Milling	3,941	482	2,805 142	215 24	329 Q	Q	0	0	0		
311221	Wet Corn Milling	217	W	21	W	0	Q	0	0	0		
31131	Sugar Manufacturing	15	0	15	0	0	0	0	0	0		
114	Fruit and Vegetable Preserving and Specialty Food	396	77	318	75	15	8	0	0	0		
115	Dairy Product	207	43	98	8	18	Q	0	0	0		
116 12	Animal Slaughtering and Processing Beverage and Tobacco Products	260 1,178	35 188	169 844	W 127	16 Q	8 W	0	0	0		
121	Beverages	1,178	W	844	W		W	0	0	0		
122	Торассо	38	W	34	W	W	0	0	0	0		
13	Textile Mills	482	Q	373	Q	19	0	w	0	0		
L4	Textile Product Mills	1,231	Q	831	Q	16	0	0	0	0		
15	Apparel	Q	W	Q	W	0	0	0	0	0		
L6 21	Leather and Allied Products Wood Products	4,018	11 268	104 2,781	W Q	Q N	0 22	0 W	0 W	0		
321113	Sawmills	526	208	389	21	5	15	W	W	0		
212	Veneer, Plywood, and Engineered Woods	487	28	410	11	8	0	0	0	0		
321219	Reconstituted Wood Products	130	8	122	6	W	0	0	0	0		
219	Other Wood Products	2,962	W	1,944	W	w	W	0	0	0		
22	Paper	1,579	93	1,222	Q	57	W	0	0	0		
322110	Pulp Mills	22	0	22	0	0	0	0	0	0		
322121	Paper Mills, except Newsprint	104	6	98	5	4	W	0	0	0		
22122 22130	Newsprint Mills Paperboard Mills	13 115	0 W	13 108	0 W	0	0	0	0	0		
3	Printing and Related Support	2,329	Q	1,773	W	W	W	0	0	0		
4	Petroleum and Coal Products	614	125	441	Q	32	29	11	0	0		
24110	Petroleum Refineries	103	Q	39	W	18	W	w	0	0		
24121	Asphalt Paving Mixture and Block	246	33	181	W	7	22	w	0	0		
24122	Asphalt Shingle and Coating Materials	134	12	118	W	7	W	0	0	0		
24199	Other Petroleum and Coal Products	43	W	33	W 122	0	0	0	0	0		
5 25110	Chemicals Petrochemicals	2,862	208 W	2,221	123	Q W	29	4 0	0	0		
25120	Industrial Gases	54	W	29	w	0	0	0	0	0		
25180	Other Basic Inorganic Chemicals	205	31	183	w	Q	Q	0	0	0		
25193	Ethyl Alcohol	42	W	40	W	W	0	0	0	0		
25194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	20	W	18	0	0	0	0	0	0		
25199	Other Basic Organic Chemicals	260	W	180	5	W	4	0	0	0		
25211	Plastics Materials and Resins	382	Q	321	Q	5	W	W	0	0		
25212	Synthetic Rubber	40	5	33	5	0	0	0	0	0		
25220 25311	Artificial and Synthetic Fibers and Filaments Nitrogenous Fertilizers	40	63	34 16		W 3	W0	0	0	0		
25312	Phosphatic Fertilizers	18		10	w		W	0	0	0		
54	Pharmaceuticals and Medicines	230	5	149	w	w	w	w	0	0		
25412	Pharmaceutical Preparation	73	5	68	W	W	W	w	0	0		
25992	Photographic Film, Paper, Plate, and Chemicals	29	W	27	W	W	0	0	0	0		
5	Plastics and Rubber Products	4,657	593	3,396	425	Q	W	0	0	0		
, 	Nonmetallic Mineral Products	4,052	390	2,614	Q	113	Q	0	W	W		
27120	Clay Building Material and Refractories	224	13	196	5	W	W	0	0	0		
27211 27212	Flat Glass Other Pressed and Blown Glass and Glassware	37 49	W8	34 38	W	0	0	0	0	0		
27212	Glass Containers	49 43	0	43	0	0	0	0	0	0		
27215	Glass Products from Purchased Glass	325	Ŵ	200	Q	Q	Q	0		w		
27310	Cements	49	5	40	W	W	W	0	0	0		
27410	Lime	17	W	15	W	0	0	0	0	0		
7420	Gypsum	82	0	81	0	0	0	0	0	0		
27993	Mineral Wool	78	14	45	8	4	W	0	0	0		
31110	Primary Metals Iron and Steel Mills and Ferroalloys	1,768	156	1,432	82	49	49 W	W0	0	0		
2	Steel Products from Purchased Steel	164 320	10 25	146 205	4	4 W	W 11	0	0	0		
12	Alumina and Aluminum	212	30	148	10	12	13	0	0	0		
31314	Secondary Smelting and Alloying of Aluminum	46	W	28	0	w	W	0	0	0		
31315	Aluminum Sheet, Plate and Foils	37	0	23	0	0	0	0	0	0		
1318	Other Aluminum Rolling, Drawing and Extruding	111	18	84	W	W	W	0	0	0		
.4	Nonferrous Metals, except Aluminum	341	32	285	25	W	W	0	0	0		
1410 .5	Nonferrous Metal (except Aluminum) Smelting and Refining Foundries	79	6 59	74 649	W 24	0 26	W19	0 W	0	0		
.5 1511	Iron Foundries	216	21	198	24 W	20	19 W	W	0	0		
1523	Nonferrous Metal Die-Casting Foundaries	135	9	138	6	5	W	0	0	0		
1524	Aluminum Foundries, except Die-Casting	162	17	139	10	6	10	0	0	0		
	Fabricated Metal Products	15,593	955	11,938	588	Q	W	0	0	0		
	Machinery	6,384	588	4,821	314	w	W	W	0	0		
	Computer and Electronic Products	1,487	Q	1,196	Q	W	0	0	0	0		
4413	Semiconductors and Related Devices	65	W 01	60	W	W	0	0	0	0		
	Electrical Equip., Appliances, and Components	1,090 3,447	91 617	811	Q 320	W 293	Q W	0	0	0		
6111	Transportation Equipment Automobiles	3,447	617 W	2,667	320 0	293 W		0	0	0		
36112	Light Trucks and Utility Vehicles	23	W	21	w	W	0	0	0	0		
	Aerospace Product and Parts	458	82	344	67	W	0	0	0	0		
36411	Aircraft	65	6	58	6	w	0	0	0	0		
	Furniture and Related Products	3,274	W	2,589	Q	W	Q	W	0	0		
	Miscellaneous	2,777	Q	1,655	W	Q	0	0	0	0		

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

(b) These counts include only those establishments that reported this activity in 2014. Establishments for which only a portion of the total consumed fuel was reported as switchable contribute to the establishment counts in both the 'Switchable' and 'Not Switchable' columns. Therefore, the sum of these establishment counts may be greater than the corresponding establishment count of the total number of establishments consuming the fuel. (c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for hydrocarbon gas liquids 'HGL' during 2014. The quantities are expressed in thousands of barrels, and therefore represent the quantity of hydrocarbon gas liquids that could have been displaced by the given alternative type of energy.

(d) 'Total Consumed' represents those quantities (Total Inputs) of hydrocarbon gas liquids that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.

(e) 'Electricity Receipts' represents those quantities of electricity generated off the manufacturing establishment site and available at the site for consumption. It includes those quantities for which payment was made, quantities transferred in, quantities purchased and paid for by a central purchasing entity, and quantities for which payment was made in kind. It does not include electricity generated onsite. 'Electricity Receipts' has not been adjusted to account for any quantities that might have been resold or transferred out. The estimates include those quantities that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained. (f) Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of hydrocarbon gas liquids. * 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.

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 10.13 Relative Standard Errors for Table 10.13;

Unit: Percents.

IAICS iode(a)	Subsector and Industry Food Grain and Oliseed Milling	Total Consumed(d) Total United States	Switchable	Not Switchable	Electricity	Natural	Distillate	Residual		Coal Coke and	
3112 311221 31131 3114 3115 3116 12 3121		Total United States			Receipts(e)		Distillate Fuel Oil	Fuel Oil	Coal		Other(f
3112 311221 31131 3114 3115 3116 12 3121											
3112 311221 31131 3114 3115 3116 12 3121		9.6	29.2	11.9	39.0	41.7	52.4	x	x	x	43.:
311221 31131 3114 3115 3116 12 3121		14.8	34.9	11.5	35.0	59.2	50.2	<u>x</u>	X	X	43.
3114 3115 3116 12 3121	Wet Corn Milling	0.0	0.0	0.0	0.0	X	0.0	x	Х	х	>
3115 3116 12 3121	Sugar Manufacturing	0.1	x	0.1	X	X	X	x	X	x)
3116 12 3121	Fruit and Vegetable Preserving and Specialty Food	12.9	31.2	15.3	32.1	32.5	43.3	X	X	х	63.6
12 3121	Dairy Product	17.4	27.9	15.2	18.5	19.6	57.8	X	X	X	62.0
3121	Animal Slaughtering and Processing Beverage and Tobacco Products	13.1 9.5	28.1 33.6	15.1 12.6	49.6	22.1	28.6	X	X	X	62.0
	Beverages	9.8	34.0	13.1	41.7	52.5	60.4	x	X	X)
3122	Tobacco	0.1	0.1	0.1	0.1	0.1	Х	x	Х	х)
13	Textile Mills	16.4	53.5	20.0	79.8	49.9	X	9.9	X	X	>
14	Textile Product Mills	32.2	81.5	41.9	85.1	46.1	X	X	X	X	>
15 16	Apparel	58.5	98.3	67.9 26.1	98.3 63.3	X 53.5	X X	x x	X	X	> >
21	Leather and Allied Products Wood Products	6.8	38.3	9.1	50.1	63.0	16.8	5.5	43.0	X	81.3
321113	Sawmills	9.4	10.1	11.2	12.0	20.3	10.0	5.5	43.0	x	5.5
3212	Veneer, Plywood, and Engineered Woods	11.2	36.2	12.1	20.6	31.7	Х	x	X	х	92.4
321219	Reconstituted Wood Products	4.1	27.3	5.4	33.3	17.7	X	X	X	X	Х
3219	Other Wood Products	8.8	49.1	12.5	64.8	71.8	57.0	Х	Х	Х	Х
22	Paper	12.7	41.9	15.2	59.5	47.8	81.5	X	X	X)
322110	Pulp Mills Paper Mills, except Newsprint	0.0	X	0.0	X 0.1	X	X 0.1	X	X	X	
322121 322122	Paper Mills, except Newsprint Newsprint Mills	0.1	0.1 X	0.1	0.1 X	0.1 X	0.1 X	x x	X	X)
322122	Paperboard Mills	0.0	0.0	0.0	0.0	x	x	<u>x</u>	X	X	×
23	Printing and Related Support	16.1	83.3	18.5	75.4	93.9	86.3	X	x	x	×
24	Petroleum and Coal Products	8.1	32.1	10.0	70.6	22.9	11.0	16.5	X	X	>
324110	Petroleum Refineries	25.4	59.7	36.2	97.4	36.2	36.2	36.2	Х	х	Х
324121	Asphalt Paving Mixture and Block	13.9	10.8	19.5	49.9	35.2	13.9	17.9	X	X	×
324122	Asphalt Shingle and Coating Materials	3.5	21.9	4.2	4.0	35.6	10.2	X	X	X	X
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	0.0	X	X	X	X	X	>
25 325110	Chemicals Petrochemicals	9.3 36.4	28.8	10.9 40.0	36.3 X	54.4 26.6	32.9 X	27.9 X	X	X	81.2
325120	Industrial Gases	39.7	91.7	39.1	91.7	20.0 X	X	X	X	X	×
325180	Other Basic Inorganic Chemicals	18.3	40.8	20.1	79.1	60.8	61.1	^ x	X	X	×
325193	Ethyl Alcohol	26.7	7.3	28.3	7.3	7.3	Х	x	X	Х	×
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0	x	Х	Х	x	Х	х	0.0
325199	Other Basic Organic Chemicals	14.2	80.6	21.7	12.4	94.4	12.4	X	X	X	X
325211	Plastics Materials and Resins	12.1	64.2	13.6	67.0	23.1	24.0	39.2	X	X	X
325212 325220	Synthetic Rubber Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0	0.0	X 0.0	X 0.0	X	X	X	X
325311	Nitrogenous Fertilizers	26.4	22.9	30.0	22.9	22.9	X	<u>x</u>	X	X	22.9
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0.0	0.0	0.0	x	X	X	X
3254	Pharmaceuticals and Medicines	25.6	28.1	30.2	55.8	17.0	23.7	23.7	Х	х	X
325412	Pharmaceutical Preparation	22.9	28.1	24.0	55.8	17.0	23.7	23.7	Х	х	х
325992	Photographic Film, Paper, Plate, and Chemicals	35.7	25.5	37.9	25.5	25.5	X	X	X	х	х
26	Plastics and Rubber Products	7.5	31.5	10.3	37.6	54.4	82.8	X	X	X	X
27	Nonmetallic Mineral Products	10.7	39.2	13.7	63.4	46.6	70.9	X	70.9	96.5	41.1
327120 327211	Clay Building Material and Refractories Flat Glass	10.0	23.3	10.7	8.3	57.8 X	8.3 X	X	X	X	X
327211	Other Pressed and Blown Glass and Glassware	22.8	39.0	23.6	59.6	39.0	21.2	<u>x</u>	x	X	^ X
327213	Glass Containers	0.0	X	0.0	X	X	X	x	X	X	x
327215	Glass Products from Purchased Glass	13.6	50.9	17.3	73.9	66.3	79.5	x	96.5	96.5	10.6
327310	Cements	32.0	31.9	32.0	31.9	31.9	31.9	x	Х	Х	>
327410	Lime	0.0	0.0	0.0	0.0	XX	X	X	X	X	Х
327420	Gypsum	15.7	X	16.0	X	X	X	X	X	X	>
327993 31	Mineral Wool Primary Metals	<u>26.8</u> 4.3	37.5 9.9	26.3 5.2	38.5 15.3	24.9 10.8	55.4 14.8	42.5	x x	x x	76.0
331110	Iron and Steel Mills and Ferroalloys	3.7	3.3	4.5	3.3	3.3	3.3	42.5 X	X	X	21
3312	Steel Products from Purchased Steel	8.1	30.4	14.9	32.4	77.8	47.7	X	X	X	77.8
3313	Alumina and Aluminum	5.9	11.4	7.7	23.0	20.6	19.3	x	X	х	0.1
331314	Secondary Smelting and Alloying of Aluminum	0.1	0.1	0.1	х	0.1	0.1	x	Х	х	0.1
331315	Aluminum Sheet, Plate and Foils	11.8	X	21.4	X	Χ	X	X	X	Х	>
331318	Other Aluminum Rolling, Drawing and Extruding	10.6	18.7	12.2	24.8	25.2	39.7	X	X	X	>
3314	Nonferrous Metals, except Aluminum Nonferrous Metal (except Aluminum) Smelting and Refining	10.9	33.5	12.0	41.6	10.4	37.4	X	X	X	······
331410 3315	Foundries	13.7	37.4	17.3	37.4	X 15.8	37.4 21.8	42.5	x x	X	21.6
331511	Iron Foundries	16.6	31.2	17.6	54.6	33.4	80.6	42.5	X	×	55.6
331523	Nonferrous Metal Die-Casting Foundaries	12.1	21.2	12.8	21.8	29.1	9.6	x	X	X	9.6
331524	Aluminum Foundries, except Die-Casting	6.5	13.6	8.7	21.3	31.6	19.8	x	Х	х	7.9
32	Fabricated Metal Products	7.6	38.3	9.3	47.5	67.2	82.2	x	Х	х	74.4
33	Machinery	7.8	33.3	9.8	45.9	70.4	69.9	99.1	Х	X	69.9
34	Computer and Electronic Products	18.9	74.2	21.6	75.1	86.3	X	X	X	X	>
334413	Semiconductors and Related Devices	29.5	20.1	31.0	20.1	20.1	X	X	X	X	>
35	Electrical Equip., Appliances, and Components	18.4	41.9	23.3	53.5	80.5	59.2	X	X	X	63.6
36	Transportation Equipment Automobiles	9.7	29.9	12.4	40.7 X	45.0	91.2 Y	X X	X	X	98.7 X
336111 336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0		0.0	X	X	X	X	X
336112	Aerospace Product and Parts	13.8	38.8	17.8	44.9	53.0	X	X	X	X	×
336411	Aircraft	42.4	34.3	45.5	34.3	40.0	X	X	X	X	×
37	Furniture and Related Products	11.5	60.3	13.8	60.1	97.0	88.0	75.9	х	Х	х
39	Miscellaneous Total	15.8 2.8	55.3 11.1	21.6 3.5	65.2 15.0	66.7 17.2	X 23.4	X 69.6	X 68.7	X 96.5	X 41.2

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

(b) These counts include only those establishments that reported this activity in 2014. Establishments for which only a portion of the total consumed fuel was reported as switchable contribute to the establishment counts in both the 'Switchable' and 'Not Switchable' columns. Therefore, the sum of these establishment counts may be greater than the corresponding establishment count of the total number of establishments consuming the fuel.

(c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for hydrocarbon gas liquids 'HGL' during 2014. The quantities are expressed in thousands of barrels, and therefore represent the quantity of hydrocarbon gas liquids that could have been displaced by the given alternative type of energy.

(d) 'Total Consumed' represents those quantities (Total Inputs) of hydrocarbon gas liquids that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.

(e) 'Electricity Receipts' represents those quantities of electricity generated off the manufacturing establishment site and available at the site for consumption. It includes those quantities for which payment was made, quantities transferred in, quantities purchased and paid for by a central purchasing entity, and quantities for which payment was made in kind. It does not include electricity generated onsite. Electricity Receipts' has not been adjusted to account for any quantities that might have been resold or transferred out. The estimates include those quantities that were ascertained switchable or not switchable, plus an additional quantity for which the switching status was not ascertained.

(f) 'Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of hydrocarbon gas liquids. * 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.

X=Not defined because RSE corresponds to a value of zero. -- Estimation is not applicable.

Notes: Totals may not equal sum of components because of independent rounding.

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