Released: July 2013

Next MECS will be fielded in 2015 Table 10.5 Number of Establishments with Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2010; Level: National Data;

Row: NAICS Codes; Column: Energy Sources; Unit: Establishment Counts.

				Coal Coke							
NAICS	Selected Subsectors and Industry	Total Establishments onsuming Residual Fuel Oil(Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Coal	LPG	and Breeze	Other(f)
/ouc(u)		Total United States	Ownenable	ownenable	Receipts(c)	043		ooui	210	BICCEC	Other(i)
		Total Office States									
	Food	144	48	69	W	39	31	0	0	0	١
8112	Grain and Oilseed Milling	9	W	W	0	W	W	0	0	0	1
311221 31131	Wet Corn Milling Sugar Manufacturing	WW	0 W	W	0	0 W	0 W	0	0	0	
3114	Fruit and Vegetable Preserving and Specialty Foods	17	8	9	0	8	Ŵ	0	0	0	
3115	Dairy Products	12	Ŵ	7	0	Ŵ	0	0	0	0	
3116	Animal Slaughtering and Processing	72	34	14	W	26	24	0	0	0	1
12	Beverage and Tobacco Products	7	W	W	0	4	0	W	0	0	
3121	Beverages	W	W	W	0	W	0	W	0	0	
3122	Tobacco	W	W	W	0	W	0	0	0	0	
	Textile Mills	49 W	Q W	35 0	0	W 0	W	W	W	0	
	Textile Product Mills Apparel	0	0	0	0	0	0	0	0	0	
	Leather and Allied Products	w	0	w	0	0	0	0	0	0	
	Wood Products	31	3	26	0	0	w	0	0	0	
	Sawmills	13	Ŵ	W	0	0	W	0	0	0	
3212	Veneer, Plywood, and Engineered Woods	3	W	W	0	0	W	0	0	0	
321219	Reconstituted Wood Products	3	W	W	0	0	W	0	0	0	
3219	Other Wood Products	W	0	W	0	0	0	0	0	0	
	Paper	125	62	76	5	52	9	8	0	0	
	Pulp Mills	17	W	W	0 W	8	W	0 W	0	0	
322121		46 4	20	31	VV 0	17 0		VV 0	0	0	
	Newsprint Mills Paperboard Mills	4	0 24	W 27	w	20	0 5	w	0	0	
	Printing and Related Support	40 W	0	0	0	20	0	0	0	0	
	Petroleum and Coal Products	157	96	54	w	66	56	w	22	Ő	
	Petroleum Refineries	W	W	18	W	W	W	0	W	0	
324121	Asphalt Paving Mixture and Block	122	80	32	W	53	W	0	W	0	
324199	Other Petroleum and Coal Products	W	W	0	0	W	0	W	0	0	
	Chemicals	42	21	21	0	17	13	W	W	0	
	Petrochemicals	3	W	W	0	W	W	0	0	0	
	Industrial Gases	0	0	0	0	0	0	0	0	0	
325181 325182	Alkalies and Chlorine Carbon Black	v W	0	w	0	0	0	0	0	0	
325182		Ŵ	w	Ŵ	0	w	0	0	0	0	
	Cyclic Crudes and Intermediates	4	W	Ŵ	0	Ŵ	w	0	0	0	
325193		0	0	0	0	0	0	0	0	0	
325199		W	0	W	0	0	0	0	0	0	
325211		3	W	W	0	W	W	0	W	0	
	Synthetic Rubber	0	0	0	0	0	0	0	0	0	
325222		5	W	W	0	W	W	W	0	0	
325311		W	0	W	0	0	0	0	0	0	
325312 3254	Phosphatic Fertilizers Pharmaceuticals and Medicines	W 9	W	W 7	0	0 W	W 0	0	0	0	
	Pharmaceuticals and Medicines Pharmaceutical Preparation	9 W	W	w w	0	Ŵ	0	0	0	0	
	Photographic Film, Paper, Plate, and Chemicals	Ŵ	Ŵ	Ŵ	0	Ŵ	w	0	0	0	
	Plastics and Rubber Products	Ŵ	Ŵ	Ŵ	Ő	Ŵ	0	0	0	Ő	
	Nonmetallic Mineral Products	Q	9	Q	Ŵ	Q	Ŵ	0	0	0	
327121	Brick and Structural Clay Tile	W	0	Q	0	0	0	0	0	0	
327211	Flat Glass	0	0	0	0	0	0	0	0	0	
327212		0	0	0	0	0	0	0	0	0	
327213		0	0	0	0	0	0	0	0	0	
	Glass Products from Purchased Glass	0 4	0 W	0 W	0	0	0	0	0	0	
	Cements	4 W	W		0	W	0	0	0	0	
327410	Lime Gypsum	vv W	w	W	w	0	0	0	0	0	
	Gypsum Mineral Wool	0	0	0	0	0	0	0	0	0	
	Primary Metals	13	5	w	0	5	w	0	0	0	
	Iron and Steel Mills	4	w	Ŵ	0	w	Ŵ	0	0	0	
	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0	
	Steel Products from Purchased Steel	W	0	Q	0	0	0	0	0	0	
3312							0	0	0	0	

Residual Fuel Oil(b)

Alternative Energy Sources(c)

Next MECS will be fielded in 2015

Table 10.5 Number of Establishments with Capability to Switch Residual Fuel Oil to Alternative Energy Sources, 2010; Level: National Data;

Row: NAICS Codes; Column: Energy Sources;

Unit: Establishment Counts.

NAICS Code(a)	Selected Subsectors and Industry	Total Establishments consuming Residual Fuel Oil(Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)
331314	Secondary Smelting and Alloying of Aluminum	W	0	0	0	0	0	0	0	0	0
	Aluminum Sheet, Plate and Foils	W	W	0	0	W	0	0	0	0	0
331310		0	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	W	0	W	0	0	0	0	0	0	0
331419		0	0	0	0	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0	0	0
33151	Iron Foundries	0	0	0	0	0	0	0	0	0	0
33152	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	W	0	Q	0	0	0	0	0	0	0
333	Machinery	W	0	W	0	0	0	0	0	0	0
334	Computer and Electronic Products	5	W	W	0	W	W	0	W	0	0
334413	Semiconductors and Related Devices	W	0	W	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	W	W	Q	0	W	W	0	0	0	0
336	Transportation Equipment	25	Q	11	0	Q	W	0	0	0	0
33611	Automobiles	0	0	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	14	6	W	0	6	W	0	0	0	0
33641	Aircraft	10	W	W	0	W	W	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0	0	0
339	Miscellaneous	W	0	Q	0	0	0	0	0	0	0
	Total	1,018	290	695	11	216	136	15	29	0	34

Residual Fuel Oil(b)

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

(b) These counts include only those establishments that reported this activity in 2010. (c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for residual fuel oil during 2010. The quantities are expressed in thousands of barrels, and therefore represent the quantity of residual fuel oil that could have been displaced by the given alternative type of energy.

(d) 'Total Consumed' represents those quantities (Total Inputs) of residual fuel oil 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 residual fuel oil. NF=No applicable RSE row/column factor.

* 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, '2010 Manufacturing

Energy Consumption Survey.'

Alternative Energy Sources(c)

Released: July 2013 Next MECS will be fielded in 2015 RSE Table 10.5 Relative Standard Errors for Table 10.5; Unit: Percents.

		ĸ	esidual Fuel Oil(b)			Alternative Energy Sources(c)						
NAICS		Total Establishments	Total Establishments			Natural	Distillate		Coal Coke and			
	Selected Subsectors and Industry	Consuming Residual Fuel Oil(c	Switchable	Not Switchable	Electricity Receipts(e)	Gas	Fuel Oil	Coal	LPG	Breeze	Other(f)	
		Total United States										
11	Food	24.0	18.3	40.8	41.7	15.2	26.9	х	х	х	33.	
3112	Grain and Oilseed Milling	31.5	18.9	43.2	Х	18.9	8.6	Х	Х	Х	41.	
311221		0.0	X	0.0	X	X	X	x	x	x		
31131 3114	Sugar Manufacturing Fruit and Vegetable Preserving and Specialty Foods	0.0 25.1	0.0 27.8	0.0 39.2	X X	0.0 27.8	0.0 38.9	X X	X X	X X		
3115	Dairy Products	12.0	6.7	12.0	x	6.7	X	x	x	x		
3116	Animal Slaughtering and Processing	28.0	24.8	22.8	41.7	21.2	33.3	х	х	Х	34	
12	Beverage and Tobacco Products	4.8	5.4	3.6	х	4.8	Х	7.1	Х	Х		
3121 3122	Beverages Tobacco	7.1 0.0	7.1 0.0	7.1 0.0	x	7.1 0.0	X X	7.1 X	X X	x		
5122 13	Textile Mills	32.3	59.3	37.9	x	67.2	92.2	78.0	67.2	x		
14	Textile Product Mills	69.8	69.8	X	x	X	69.8	X	X	x		
15	Apparel	X	х	х	х	х	х	х	х	х		
16	Leather and Allied Products	17.6	Х	17.6	х	Х	х	х	Х	Х		
21	Wood Products	34.5	6.5	39.9	X	X	6.5	X	X	X		
321113 3212	Sawmills Veneer, Plywood, and Engineered Woods	37.3 13.5	6.4 13.5	49.4 13.5	x x	x	6.4 13.5	X X	X X	X X		
	Reconstituted Wood Products	13.5	13.5	13.5	x	x	13.5	x	x	x		
3219	Other Wood Products	67.7	X	67.7	x	x	X	x	x	x		
322	Paper	3.9	7.9	0.1	0.0	7.4	0.0	0.0	Х	Х	40	
	Pulp Mills	0.0	0.0	0.0	Х	0.0	0.0	х	Х	Х		
	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	X	C	
	Newsprint Mills	0.0 0.0	X 0.0	0.0 0.0	X 0.0	X 0.0	X 0.0	X 0.0	X X	X X	C	
23	Paperboard Mills Printing and Related Support	92.6	0.0 X	0.0 X	0.0 X	0.0 X	0.0 X	0.0 X	x	x	L. L.	
24	Petroleum and Coal Products	9.6	13.2	10.0	2.8	18.3	9.3	0.0	14.0	x	C	
	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	0.0	х	0.0	х	C	
	Asphalt Paving Mixture and Block	12.4	15.7	16.4	5.3	22.8	9.8	х	14.9	Х		
	Other Petroleum and Coal Products	0.0	0.0	Х	х	0.0	Х	0.0	X	Х		
25	Chemicals	11.5	16.0	16.2	x	19.5	21.8	0.0 X	78.7 X	X X		
	Petrochemicals Industrial Gases	0.0 X	0.0 X	0.0 X	x	0.0 X	0.0 X	x	×	x		
325181		x	x	x	X	x	x	x	x	x		
325182		0.0	х	0.0	х	х	х	х	х	х		
	Other Basic Inorganic Chemicals	41.2	62.9	11.6	Х	62.9	Х	х	Х	Х		
	Cyclic Crudes and Intermediates	0.0	0.0	0.0	X	0.0	0.0	X	X	X		
	Ethyl Alcohol Other Basic Organic Chemicals	X 10.6	X X	X 10.6	x	X X	X X	X X	X X	x		
	Plastics Materials and Resins	30.5	63.4	7.9	x	63.4	56.0	x	78.7	x		
	Synthetic Rubber	X	X	X	x	X	X	x	X	x		
325222		0.0	0.0	0.0	х	0.0	0.0	0.0	Х	х		
	Nitrogenous Fertilizers	0.0	Х	0.0	Х	Х	Х	х	Х	Х		
	Phosphatic Fertilizers	0.0	0.0	0.0	X	X	0.0	X	X	x		
3254	Pharmaceuticals and Medicines Pharmaceutical Preparation	40.1 47.1	10.2 10.2	47.7 58.2	X X	10.2 10.2	X X	X X	X X	X X		
	Photographic Film, Paper, Plate, and Chemicals	14.1	14.1	14.1	x	14.1	14.1	x	x	x		
26	Plastics and Rubber Products	85.1	62.1	96.1	x	62.1	x	x	x	x		
27	Nonmetallic Mineral Products	61.0	47.8	68.4	13.9	55.4	85.1	х	х	х		
	Brick and Structural Clay Tile	70.2	х	70.2	Х	Х	Х	х	Х	Х		
	Flat Glass	X	X	X	x x	X	X	X	X	x		
	Other Pressed and Blown Glass and Glassware Glass Containers	X X	X X	X X	X	X X	X X	X X	X X	X X		
	Glass Products from Purchased Glass	Â	x	x	x	x	x	x	x	x		
	Cements	13.2	13.2	13.2	x	13.2	x	x	x	x		
327410	Lime	0.0	х	0.0	Х	Х	Х	х	х	х		
	Gypsum	13.9	13.9	х	13.9	Х	х	х	Х	Х		
	Mineral Wool	X	X	X	X	X	X	X	X	X		
31	Primary Metals Iron and Steel Mills	24.6 0.0	0.0 0.0	48.9 0.0	x	0.0 0.0	0.0 0.0	X X	X X	X X		
	Electrometallurgical Ferroalloy Products	0.0 X	0.0 X	0.0 X	X	0.0 X	0.0 X	x	X	X		
3312	Steel Products from Purchased Steel	80.7	x	80.7	x	x	x	x	x	x		
3313	Alumina and Aluminum	0.0	0.0	х	х	0.0	х	х	х	х		
	Secondary Smelting and Alloying of Aluminum	0.0	Х	х	Х	Х	Х	Х	Х	Х		
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	Х	Х	0.0	Х	Х	Х	Х		

Residual Fuel Oil(b)

Alternative Energy Sources(c)



		R		Alternative Energy Sources(c)							
NAICS Code(a)	Selected Subsectors and Industry	Total Establishments Consuming Residual Fuel Oil(c	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)
331316	Aluminum Extruded Products	Х	х	х	х	х	х	х	х	х	х
3314	Nonferrous Metals, except Aluminum	11.1	Х	11.1	Х	Х	Х	Х	Х	Х	Х
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and A	A X	Х	Х	Х	Х	Х	х	Х	Х	Х
3315	Foundries	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
331511	Iron Foundries	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
331521	Aluminum Die-Casting Foundries	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
331524	Aluminum Foundries, except Die-Casting	х	Х	Х	Х	Х	Х	Х	Х	Х	Х
332	Fabricated Metal Products	99.4	Х	99.4	Х	Х	Х	х	Х	Х	Х
333	Machinery	98.9	Х	98.9	Х	Х	Х	Х	Х	Х	Х
334	Computer and Electronic Products	6.4	7.0	7.0	Х	7.0	7.0	Х	7.0	Х	Х
334413	Semiconductors and Related Devices	14.9	Х	14.9	Х	Х	Х	Х	Х	Х	Х
335	Electrical Equip., Appliances, and Components	65.3	87.1	91.6	Х	87.1	87.1	Х	Х	Х	Х
336	Transportation Equipment	34.4	55.2	10.5	Х	55.2	16.8	х	Х	Х	Х
336111	Automobiles	х	Х	Х	Х	Х	Х	х	Х	Х	Х
336112	Light Trucks and Utility Vehicles	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
3364	Aerospace Product and Parts	12.7	11.1	12.5	Х	11.1	16.8	Х	Х	Х	Х
336411	Aircraft	16.8	16.8	16.8	Х	16.8	16.8	Х	Х	Х	Х
337	Furniture and Related Products	х	Х	Х	Х	Х	Х	х	Х	Х	Х
339	Miscellaneous	98.8	Х	98.8	Х	Х	Х	х	Х	Х	Х
	Total	18.9	7.3	27.4	6.2	8.2	10.3	16.2	14.0	Х	25.1

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

(b) These counts include only those establishments that reported this activity in 2010. (c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for residual fuel oil during 2010. The quantities are expressed in thousands of barrels, and therefore represent the quantity of residual fuel oil that could have been displaced by the given alternative type of energy.

(d) Total Consumed' represents those quantities (Total Inputs) of residual fuel oil 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 residual fuel oil.

NF=No applicable RSE row/column factor.

* 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.

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, '2010 Manufacturing

Energy Consumption Survey.'