Released: October 2017 Next MECS will be fielded in 2019 Table 10.25 Reasons that Made Residual Fuel Oil Unswitchable, 2014;

Level: National Data; Row: NAICS Codes; Column: Reasons that Made Quantity Unswitchable;

Unit: Million Barrel	5.
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		Total Amount of To		Non Switchable Amount Attributed to:								
			Total Amount of	Equipment is Not	Switching	Unavailable		Long-Term	Unavailable	e		
NAICS		Residual Fuel Oil	Unswitchable Residual	Capable of Using	Adversely Affects	Alternative	Environmental	Contract	Storage for	Another		
Code(a)	Subsector and Industry	Consumed as Fuel	Fuel Oil Fuel Use	Another Fuel	the Products	Fuel Supply	Restrictions(b)	in Place(c	Alternative Fuels(d)	Reason	Cols. F, G, H, I, J, and K	Didn't Answer
311	Food	1	Total United States		0	0		· (0	0	0	•
3112	Grain and Oilseed Milling	*	*	*	0							
311221	Wet Corn Milling	0	0									
31131 3114	Sugar Manufacturing Fruit and Vegetable Preserving and Specialty Food	*	*	*	0 0							
3114	Dairy Product	*	*	*	0							
3116	Animal Slaughtering and Processing	*	*	*								
312 3121	Beverage and Tobacco Products	*	*	0							0	
3121	Beverages Tobacco	0	*	0							0	
313	Textile Mills	*	*	*	0	0) (0	0	0	0
314	Textile Product Mills	*	*	0								
315 316	Apparel Leather and Allied Products	•	0	0	0							
321	Wood Products	*	*	*	0						0	0
321113	Sawmills	*	*	*	0							
3212 321219	Veneer, Plywood, and Engineered Woods Reconstituted Wood Products	0	0									
3219	Other Wood Products	*	*	0							0	
322	Paper	3	2	2		*	0				*	*
322110 322121	Pulp Mills Paper Mills, except Newsprint	*	*		0						0	
322121	Newsprint Mills	0	0									
322130	Paperboard Mills	1	1				0) (0		*	*
323	Printing and Related Support	*	*	0								0
324 324110	Petroleum and Coal Products Petroleum Refineries	*	*	•	0 0							0
324121	Asphalt Paving Mixture and Block	*	*	*	0							*
324122	Asphalt Shingle and Coating Materials	*	*	*	0							
324199 325	Other Petroleum and Coal Products Chemicals			0	0) ('			0	
325110	Petrochemicals	0	0	0								
325120	Industrial Gases	0	0									
325180 325193	Other Basic Inorganic Chemicals Ethyl Alcohol	0	0									
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0										
325199	Other Basic Organic Chemicals	*	*	*	0	0	C) (0	0	0	0
325211	Plastics Materials and Resins	*	*	*	0						0	
325212 325220	Synthetic Rubber Artificial and Synthetic Fibers and Filaments	•	*	0	0) ('				
325311	Nitrogenous Fertilizers	*	*	*	0	0	0) (0	0	0	0
325312	Phosphatic Fertilizers	*	*	*	0							
3254 325412	Pharmaceuticals and Medicines Pharmaceutical Preparation	0	0 0									
325992	Photographic Film, Paper, Plate, and Chemicals	*	0									
326	Plastics and Rubber Products	0	0	0								
327 327120	Nonmetallic Mineral Products Clay Building Material and Refractories	*	*	•								
327211	Flat Glass	0	0	0								
327212	Other Pressed and Blown Glass and Glassware	0	0									
327213 327215	Glass Containers Glass Products from Purchased Glass	0	0	0								
327310	Cements	*	*	*								
327410	Lime	0	0									
327420 327993	Gypsum Mineral Wool	0	0									
32/993	Primary Metals	0	0 *	*								
331110	Iron and Steel Mills and Ferroalloys	*	*	*	0	0	C) (0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0								
3313 331314	Alumina and Aluminum Secondary Smelting and Alloying of Aluminum	0	0	0			0			0	0	
331315	Aluminum Sheet, Plate and Foils	*	0	0	0	0	C) (0 0		0	0
331318	Other Aluminum Rolling, Drawing and Extruding	*	0									
3314 331410	Nonferrous Metals, except Aluminum Nonferrous Metal (except Aluminum) Smelting and Refining	0										
3315	Foundries	*	*	*	0							
331511	Iron Foundries	*	*	*								
331523 331524	Nonferrous Metal Die-Casting Foundries Aluminum Foundries, except Die-Casting	0	0									
331524	Fabricated Metal Products	0										
333	Machinery	*	*	*	0				0	0		
334	Computer and Electronic Products	*	*	*	0							
334413 335	Semiconductors and Related Devices Electrical Equip., Appliances, and Components	0	0									
336	Transportation Equipment	*	*	*	0	*	C) (0	0	0	0
336111	Automobiles	0	0									
336112 3364	Light Trucks and Utility Vehicles Aerospace Product and Parts	•	0	0								
336411	Aircraft	*	*	0								
337	Furniture and Related Products	0	0									
339	Miscellaneous Total	*	*	*	0	0	C) (0	0
	reau of the Census classifies establishments using the 2012 North American	-		J					0			

Non Switchable Amount Attributed to:

 Total
 5
 4
 3

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

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: October 2017 Next MECS will be fielded in 2019 RSE Table 10.25 Relative Standard Errors for Table 10.25;

Unit: Percents Non Switchable Amount Attributed to: Total Amount of Equipment is Not Environmental Contract Total Amount of Switching Unavailable NAICS Subsector and Industr Residual Fuel Oil Unswitchable Residual Capable of Using Adversely Affects Alternative

NAICS		Total Amount of Residual Fuel Oil L	Total Amount of Jnswitchable Residual	Equipment is Not Capable of Using	Switching Adversely Affects	Unavailable Alternative	Environmenta	Long-Term Contract	Unavailable Storage for	Another Combinations of	of Don't Know/
Code(a)	Subsector and Industry	Consumed as Fuel	Fuel Oil Fuel Use	Another Fuel	the Products	Fuel Supply			Alternative Fuels(d)		
		-									
311	Food	16.2	otal United States 6.4	10.8	x	x	. 0.:	L X	x	x	X 31.
3112	Grain and Oilseed Milling	37.1	56.6	56.6							x
311221	Wet Corn Milling	Х	X	X	X	X			X		x
31131	Sugar Manufacturing	0.1	0.1	0.1	X	X			X		x
3114 3115	Fruit and Vegetable Preserving and Specialty Food Dairy Product	5.5	8.2	8.5		X			x x		X 0.: X)
3116	Animal Slaughtering and Processing	14.9	23.7	28.0				(X	x		X 32.4
312	Beverage and Tobacco Products	0.1	0.1	X	X	X			X		x >
3121	Beverages	X	X	X	X	X			X		x >
3122 313	Tobacco Textile Mills	0.1 48.0	0.1	X 0.1	X				x x		x x
314	Textile Product Mills	0.1	0.1	0.1 X				x x			X 0.1
315	Apparel	X	х	х	X	X		(X	x	X	x >
316	Leather and Allied Products	67.2	78.4	78.4	X	X			X		x >
321	Wood Products	0.1	0.1	0.1	X	X			X		x >
321113 3212	Sawmills Veneer, Plywood, and Engineered Woods	0.1 X	0.1 X	0.1 X		X			X		x x x x
321219	Reconstituted Wood Products	X	x	X	X	X			x		x >
3219	Other Wood Products	0.1	0.1	X	X	X)	(X	X		x >
322	Paper	0.1	0.1	0.1	0.1	0.1			x		.1 0.1
322110	Pulp Mills	0.0	0.0	0.0		X		<u>с х</u> с х	X		X X X X X
322121 322122	Paper Mills, except Newsprint Newsprint Mills	U.1 X	0.1 X	0.1 X	0.1 X	X			X		X 0.1 X X
322122	Paperboard Mills	0.0	0.0	0.0		0.0			x		.0 0.0
323	Printing and Related Support	51.8	51.8	X	X	51.8		κ x	x		x x
324	Petroleum and Coal Products	5.2	12.9	18.2							
324110 324121	Petroleum Refineries	0.1	0.1 20.6	0.1 23.5		X			X X		X X .4 4.5
324121 324122	Asphalt Paving Mixture and Block Asphalt Shingle and Coating Materials	0.1	0.1	23.5	X X	X					.4 4.5 X X
324199	Other Petroleum and Coal Products	X	X	X	X				x		x x
325	Chemicals	4.8	4.8	4.9				L X	X		x x
325110	Petrochemicals	X	x	X							x x
325120 325180	Industrial Gases Other Basic Inorganic Chemicals	X	X	x x	X	X			X		x x x x
325180	Ethyl Alcohol	х Х	X	x		X			X		x x
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	X	x	X					x		x x
325199	Other Basic Organic Chemicals	0.1	0.1	0.1	X)	(X	X		x x
325211	Plastics Materials and Resins	17.8	43.5	50.0		X			x		x x
325212	Synthetic Rubber	X	X	X 0.0	X	X			X		x x
325220 325311	Artificial and Synthetic Fibers and Filaments Nitrogenous Fertilizers	0.0	0.0	0.0		X			X		x x x x
325312	Phosphatic Fertilizers	0.0	0.0	0.0							x x
3254	Pharmaceuticals and Medicines	X	x	х	X	X)	(Х	X	X	x x
325412	Pharmaceutical Preparation	X	x	X	x	X			x		x x
325992	Photographic Film, Paper, Plate, and Chemicals	0.0	X	X	X	X			X		x x
326 327	Plastics and Rubber Products Nonmetallic Mineral Products	X 5.6	X 14.9	X 4.8					X		x x x 79.8
327120	Clay Building Material and Refractories	59.3	59.3	59.3		X			x		x x
327211	Flat Glass	X	x	X	X	X)	(X	X	X	x x
327212	Other Pressed and Blown Glass and Glassware	Χ	X	X	X				x		x x
327213 327215	Glass Containers Glass Products from Purchased Glass	X 79.8	X 79.8	x x					X		x x x 79.8
327310	Cements	0.1	0.1	0.1		×			X		x x
327410	Lime	X	X	x	X	X			X		x x
327420	Gypsum	X	X	x	X	X			X		x x
327993	Mineral Wool	X	X	X					X		x x
331 331110	Primary Metals Iron and Steel Mills and Ferroalloys	0.1	0.1	0.1		X			x		X 0.1 X X
3312	Steel Products from Purchased Steel	0.1 X	0.1 X	0.1 X	x	^ X			×		x x
3313	Alumina and Aluminum	0.1	0.1	X					X		X 0.1
331314	Secondary Smelting and Alloying of Aluminum	X	X	X					X		x x
331315	Aluminum Sheet, Plate and Foils	0.1	X	X		X			X		x x x x
331318 3314	Other Aluminum Rolling, Drawing and Extruding Nonferrous Metals, except Aluminum	0.1 X	X	x x	X	X	() ;)	(X (X	X	х Х	x x x x
331410	Nonferrous Metals, except Aluminum Nonferrous Metal (except Aluminum) Smelting and Refining	×	X	x	X	^ X	· · · · · · · · · · · · · · · · · · ·	. ^ (X	×	X	x x
3315	Foundries	0.1	0.1	0.1							x x
331511	Iron Foundries	0.0	0.0	0.0							x x
331523	Nonferrous Metal Die-Casting Foundries	X	X	X		X		(X	X		x x
331524 332	Aluminum Foundries, except Die-Casting Fabricated Metal Products	0.1 X	0.1 X	0.1 X	x x			K X X	x x		x x x x
333	Machinery	99.0	99.0	99.0				x x			x x
334	Computer and Electronic Products	0.1	0.1	0.1	X			κ x			x x
334413	Semiconductors and Related Devices	0.1	0.1	0.1	Х	X		(X	X	X	x x
335	Electrical Equip., Appliances, and Components	X	X	X							x x
336 336111	Transportation Equipment Automobiles	0.1 X	0.1 X	0.1 X				(X (X			x x x x
336111	Light Trucks and Utility Vehicles	X	X	x				(X			x x
3364	Aerospace Product and Parts	0.1	0.1	0.1		0.1		(X			x x
336411	Aircraft	0.1	0.1	X							x x
337 339	Furniture and Related Products Miscellaneous	0.1	X 0.1	X 0.1	X				X		x x x x

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

(a) The bureau of the Census Gassines establishments using the 2012 worth Antennan Musuity Classination System (WHCs).
 (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.

(a) the storage of classical and the storage

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