Released: October 2017 Next MECS will be fielded in 2019 Table 10.24 Reasons that Made Distillate Fuel Oil Unswitchable, 2014;

Level: National Data; Row: NAICS Codes; Column: Reasons that Made Quantity Unswitchable; Unit: Million Barrels.

		Total Amount of	Total Amount of	Equipment is Not	Switching			Long-Term				
NAICS Code(a)	Subsector and Industry	Distillate Fuel Oil Consumed as Fuel	Unswitchable Distillate Fuel Oil Fuel Use	Capable of Using Another Fuel	Adversely Affects the Products		Environmental Restrictions(b)		Storage for Alternative Fuels(d)		Combinations of Cols. F, G, H, I, J, and K	
311	Food	3	Total United States 3	2	*	*	*				•	*
3112	Grain and Oilseed Milling	*	*	*	*		0	() *	*	0	*
311221	Wet Corn Milling Sugar Manufacturing	*	*	*	*		0					*
31131 3114	Fruit and Vegetable Preserving and Specialty Food	*	*	*	0						0	*
3115	Dairy Product	*	*	*	0		*		0		*	*
3116	Animal Slaughtering and Processing	1		1	*		*				*	*
312 3121	Beverage and Tobacco Products Beverages	*	*	*	*		0		0		0	
3122	Tobacco	*	*	*		*	*	() 0	*	0	*
313	Textile Mills	*	*	*	0						0	
314 315	Textile Product Mills Apparel	*	*	•	0					······································		
316	Leather and Allied Products	*	*	*	0							
321	Wood Products	2	1	1			*				•	*
321113 3212	Sawmills Veneer, Plywood, and Engineered Woods			1					,		0	
321219	Reconstituted Wood Products	*	*	*	0						0	
3219	Other Wood Products	1	*	*	*	*	0) 0	*	0	*
322 322110	Paper Pulp Mills			1	*		0					*
322110	Paper Mills, except Newsprint	*	*	*	0		0				0	
322122	Newsprint Mills	*	*	*	0	0		() 0		0	0
322130	Paperboard Mills	*	*	*	*		0			*	0	
323 324	Printing and Related Support Petroleum and Coal Products	2	2	•			•		, U	•	*	*
324110	Petroleum Refineries	1	1	1	0		0			*	*	*
324121	Asphalt Paving Mixture and Block		1	*	*		*			*	*	*
324122 324199	Asphalt Shingle and Coating Materials Other Petroleum and Coal Products	*	*	•			0				0	
325	Chemicals	2	1	1	*	*	*			*	*	*
325110	Petrochemicals	*	*	*	0						0	
325120 325180	Industrial Gases Other Basic Inorganic Chemicals	*	*	•	0		0				0	*
325193	Ethyl Alcohol	*	*	*	0						0	*
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	*	*	•	0		0				0	*
325199 325211	Other Basic Organic Chemicals Plastics Materials and Resins	*	*	•	*					•	0	
325212	Synthetic Rubber	*	*	*	0					*	0	
325220	Artificial and Synthetic Fibers and Filaments	*	*	*	0							
325311 325312	Nitrogenous Fertilizers Phosphatic Fertilizers	*	*	•	0						0	
3254	Pharmaceuticals and Medicines	*	*	*	0		*		· 0		*	*
325412	Pharmaceutical Preparation	*	*	*	0		0		0		*	0
325992 326	Photographic Film, Paper, Plate, and Chemicals Plastics and Rubber Products	* Q	*	*	0		0			0	0	*
327	Nonmetallic Mineral Products	3	3	2	*	*	*			*	*	*
327120	Clay Building Material and Refractories	*	*	*	*			(0	
327211 327212	Flat Glass Other Pressed and Blown Glass and Glassware	*	*	*								0
327212	Glass Containers	*	*	*	*					0		0
327215	Glass Products from Purchased Glass	*	*	*	0		0	••••••			0	*
327310 327410	Cements			*	*		*					*
327410 327420	Lime Gypsum	*	*	*	0							
327993	Mineral Wool	*	*	*	0		*	(0	0
331 331110	Primary Metals Iron and Steel Mills and Ferroalloys	1	1	1	*		*			*	*	*
331110	Steel Products from Purchased Steel	*	*	•	*		0			*	0	*
3313	Alumina and Aluminum	*	*	*			0	() 0	*	0	
331314 331315	Secondary Smelting and Alloying of Aluminum Aluminum Sheet, Plate and Foils	*	*	*	0	0					0	*
331315 331318	Aluminum Sneet, Plate and Folis Other Aluminum Rolling, Drawing and Extruding	*	*	•	0						0	*
3314	Nonferrous Metals, except Aluminum	*	*	*	0	*	0	() 0	*	*	*
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	*	*	•	0		U			•	*	*
3315 331511	Foundries Iron Foundries	*	*	•	0		0		,	•	•	*
331523	Nonferrous Metal Die-Casting Foundries	*	*	*	0		0				*	*
331524	Aluminum Foundries, except Die-Casting	*	*	•							0	
332 333	Fabricated Metal Products Machinery	*	*	*	*	0					0	
334	Computer and Electronic Products	*	*	*	*	0					0	*
334413	Semiconductors and Related Devices	*	*	*	*						0	
335 336	Electrical Equip., Appliances, and Components Transportation Equipment	*	*	*			0				0	*
336111	Automobiles	*	*	*	0	0	0				0	0
336112	Light Trucks and Utility Vehicles	*	*	•	0	0		() 0	*	*	0
3364 336411	Aerospace Product and Parts Aircraft	*	*	*	*		*				*	*
330411	Furniture and Related Products	*	*	*	0						0	0
339	Miscellaneous	*	*	*	0		0		•	*	*	*
	Total reau of the Census classifies establishments using the 2012 North American	17	14	10	•	*	•		•	1	•	2

Non Switchable Amount Attributed to:

 Total
 17
 14
 10

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

 * 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 10.24 Relative Standard Errors for Table 10.24; Unit: Percents

vitching Total Amo int of Total Amount of Equipment is Not Capable of Using ailable Long-Tern NAICS Distillate Fuel Oil Adversely Affects Combinations of Don't Know itchable Distillate Alternative Environmenta Contract Storage for Another Un Cols. F, G, H, I, J, and K Didn't Answer Code(a Subsector and Industry Consumed as Fuel Fuel Oil Fuel Use Another Fue the Products Fuel Supply Restrictions(b) in Place(c) Alter ative Fuels(d) Reason Total United States 311 12.0 64.4 43.5 23.5 28.3 11.0 15.8 29.8 0.5 59.2 24.9 Food 3112 Grain and Oilseed Milling 8.0 8.7 9.8 0.1 10.5 23.5 70.9 62.2 Wet Corn Milling 311221 0.0 0.0 0.0 0.0 0.0 31131 Sugar Manufacturing 0.1 0.1 0.1 0.1 0.1 3114 Fruit and Vegetable Preserving and Specialty Food 11.2 11.4 28 19.9 0.1 47.5 3115 Dairy Product 26.6 30.9 32.4 74.7 85.2 64.7 19.0 0.1 15.1 3116 Animal Slaughtering and Processing 7 3 7.1 9.2 47 0 68.0 47 72.8 11.0 25.7 12.0 312 Beverage and Tobacco Products 18.5 15.3 20.2 20.7 0.1 0.1 43.3 19.2 8.4 3121 3122 Beverages 19.8 17.1 21.2 20.7 43.3 24.0 8.6 Tobacco 0.1 0.0 0.1 0.1 0.1 0.1 0.1 313 Textile Mills 55.7 69.9 70.7 97.2 314 Textile Product Mills 18.8 12.3 10.1 45.6 315 Apparel 68.9 0.1 0.1 Leather and Allied Products 12.4 12.5 15.9 0.1 310 321 Wood Products 9.7 7.4 8.3 25.2 88.0 0.1 0.1 5.1 14.1 12.7 10.9 321113 Sawmills 12.1 3.0 12.2 11. 10.6 Veneer, Plywood, and Engineered Wood 3212 8.5 8.1 9.3 0.1 0.1 4.2 26.8 321219 Reconstituted Wood Products 5.5 5.5 6.8 0.1 0.1 0.1 3219 Other Wood Products 25.8 26.9 28.3 51.8 88.0 54.5 12.4 322 Paper 0.8 0.6 0.7 0.3 0.1 0 0.1 7.8 0.1 Pulp Mills 322110 0.0 0.0 0.0 0.0 322121 Paper Mills, except Newsprint 0.1 0.1 0.0 0.1 0.1 0.1 322122 Newsprint Mills 0.0 0.0 322130 Paperboard Mills 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 323 Printing and Related Support 24. 25. 22.8 46.9 94.8 324 Petroleum and Coal Products 1.7 1.3 1.8 4.0 3.3 0.1 2.0 38.4 2.5 10.9 0.4 324110 Petroleum Refineries 0.1 0.1 0.1 0.1 0. 0.1 5.4 324121 Asphalt Paving Mixture and Block 3.8 3.5 4.6 4.0 4.3 0.1 2.0 38.4 14.3 11.1 324122 Asphalt Shingle and Coating Materials 26.6 19.7 23.1 0.: 0.: 0.1 0.1 Other Petroleum and Coal Products 324199 0.0 0.0 0.0 0.0 0.0 0.0 325 Chemicals 4.2 4.2 1.8 0.1 0.1 0.1 20.6 19.7 2.1 0.4 6.3 325110 0.1 0.1 0.1 Petrochemical 0.1 325120 Industrial Gases 37.8 38.7 39.1 19.1 325180 Other Basic Inorganic Chemicals 3.1 24.4 3.0 0.1 0.1 0.3 325193 Ethyl Alcohol 25.8 27.7 30.0 67.8 3.6 0.1 325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals 0.0 0.0 0.0 0.0 0.0 0.0 325199 Other Basic Organic Chemicals 2.6 2.8 7.2 0.1 0.1 0.1 0.1 38.4 0.6 325211 325212 Plastics Materials and Resins 3.0 6.9 9. 68. 0. 1.6 Synthetic Rubber 0.0 0.0 0.0 0.0 0.0 0.0 325220 Artificial and Synthetic Fibers and Filaments 0.0 4.6 0.0 0.0 0.0 0.1 325311 0.1 Nitrogenous Fertilizers 5.3 7.3 0.1 0.1 325312 Phosphatic Fertilizers 0.0 0.0 0.0 0.0 3254 Pharmaceuticals and Medicines 31.9 37.6 45.0 0.1 0.1 0.1 0.1 4.6 35.1 Х 325412 Pharmaceutical Preparation 36.8 43.2 53.3 0.1 0.1 0.1 4.6 325992 Photographic Film, Paper, Plate, and Chemicals 0.1 0.1 0.0 0.1 326 Plastics and Rubber Products 70.6 36.9 48.9 99.0 78.3 0.1 93.7 66.1 Nonmetallic Mineral Products 32 16.9 19.4 22.2 0.1 0.1 73.9 95.9 16.8 6.5 0.1 0.1 327120 Clay Building Material and Refractories 8.0 8.7 10.2 0.1 0.1 0.1 24.5 327211 Flat Glass 0.0 0.0 0.0 0.0 0.0 0.0 327212 Other Pressed and Blown Glass and Glassware 0.1 0.1 0.1 74.9 0.1 0.1 Glass Containers Glass Products from Purchased Glass 327213 0.0 0.0 0.0 0.0 0.0 0.0 0.0 54.1 5.3 327215 3.2 5.5 6.2 0.1 327310 327410 Cements 6.4 0.9 1.4 0.1 0.1 0.1 0.1 0.1 Lime 0.0 0.0 0.0 0.0 0.0 327420 Gypsun 0.1 0.1 0.1 0.1 0.1 327993 Mineral Woo 0.: 8.0 8.3 9.1 0.1 331 Primary Metals 0.8 0.8 1.2 0.1 0.3 0.1 9.8 0.1 2.4 0.2 331110 Iron and Steel Mills and Ferroalloys 0.1 0.1 0.1 0.: 0.1 0.1 0.1 3312 Steel Products from Purchased Steel 6.2 6.8 10.9 0.1 0.1 0.1 30.8 Alumina and Aluminum 3313 0.1 0.1 0.1 0.1 0.1 0.1 331314 Secondary Smelting and Alloying of Aluminum 0.1 0.1 0.1 0.1 0.1 331315 331318 Aluminum Sheet, Plate and Foils 0.1 0.1 0.1 0.1 0.1 0.1 Other Aluminum Rolling, Drawing and Extruding 0.3 0.1 0.1 0.1 3314 Nonferrous Metals, except Aluminum 3.2 24 3.0 0.1 0.2 37 6.4 331410 Nonferrous Metal (except Aluminum) Smelting and Refining 0.0 0.1 0.0 0.1 0.0 0.0 0.1 3315 Foundries 4.9 5.1 5.3 12.7 58.2 67.0 0.1 0.1 10.0 331511 Iron Foundries 1.9 1.5 1.6 0.1 0.1 11.2 331523 Nonferrous Metal Die-Casting Foundries 3.6 4.0 4.9 58.2 0.1 0.0 0.1 331524 Aluminum Foundries, except Die-Casting 59.6 37.4 32 54. 59.2 65.7 332 Fabricated Metal Products 29.7 34.4 99.5 99.5 33.6 33.5 14.0 63.9 333 Machinery 99.0

0.1

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7.0

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1.9

18.8

0.0

0.0

0.1

0.1

83.8 21.1

99.0 26.9

Non Switchable Amount Attributed to:

Х

>

0.1

0.1

71.6

58.0

>

0.1

>

7.4 8.5

0.1

0.0

0.1

0.1

88.8 69.2

(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

45.2

0.9

33.6

34 0

0.0

0.0

68.1

84.4

54.6

67.5

5.4

49.0

1.0

34.4

36.6

0.0

0.0

68.2

84.4

62.9

80.3 5.1

53.4

4.4

87.9

40 5

0.0

0.0

79.0

88.8

62.9

67.3 6.0

Estimate less than 0.5

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

Aircraft

Total

Miscellaneous

334

335

330

334413

336111

336112

336411

3364

337

339

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.

Computer and Electronic Products

Light Trucks and Utility Vehicles

Aerospace Product and Parts

Furniture and Related Products

Transportation Equipment Automobiles

Semiconductors and Related Devices

Electrical Equip., Appliances, and Components

-- 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.'