

Table 10.14 Percent of Establishments by Levels of Price Difference that Would Cause Fuel Switching from Electricity to a Less Expensive Substitute, 2014;

Level: National Data;
 Row: NAICS Codes;
 Column: Levels of Price Difference;
 Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Levels of Price Difference that Would Cause a Switch from Electricity(c)					Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
			Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent		
Total United States									
311	Food	220	Q	10	Q	W	11	22	W
3112	Grain and Oilseed Milling	25	W	W	W	0	W	W	0
311221	Wet Corn Milling	W	W	0	0	0	0	W	0
31131	Sugar Manufacturing	8	W	0	0	0	W	0	0
3114	Fruit and Vegetable Preserving and Specialty Food	15	6	W	W	0	W	0	0
3115	Dairy Product	40	9	6	6	W	W	6	W
3116	Animal Slaughtering and Processing	Q	Q	0	W	0	0	W	W
312	Beverage and Tobacco Products	Q	Q	0	W	W	W	Q	0
3121	Beverages	W	W	0	W	W	W	Q	0
3122	Tobacco	W	W	0	0	0	0	0	0
313	Textile Mills	Q	W	0	W	0	0	W	0
314	Textile Product Mills	W	W	0	0	0	0	0	0
315	Apparel	W	W	0	0	W	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0
321	Wood Products	183	44	W	Q	9	W	37	0
321113	Sawmills	73	37	0	W	W	W	22	0
3212	Veneer, Plywood, and Engineered Woods	W	W	0	W	0	0	0	0
321219	Reconstituted Wood Products	0	0	0	0	0	0	0	0
3219	Other Wood Products	Q	W	W	W	0	0	Q	0
322	Paper	51	W	18	7	W	W	W	W
322110	Pulp Mills	W	0	0	0	0	W	0	0
322121	Paper Mills, except Newsprint	14	W	9	W	0	0	W	W
322122	Newsprint Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	15	W	9	W	0	0	W	W
323	Printing and Related Support	Q	W	W	0	0	0	W	0
324	Petroleum and Coal Products	185	81	11	10	18	W	49	W
324110	Petroleum Refineries	21	W	4	W	W	W	W	0
324121	Asphalt Paving Mixture and Block	159	77	7	W	W	0	40	W
324122	Asphalt Shingle and Coating Materials	W	W	0	0	0	0	W	0
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0	0
325	Chemicals	252	189	6	10	W	5	36	W
325110	Petrochemicals	W	0	W	W	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0
325180	Other Basic Inorganic Chemicals	17	W	0	W	0	0	0	0
325193	Ethyl Alcohol	4	W	W	0	0	0	W	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	19	7	0	W	0	0	W	0
325211	Plastics Materials and Resins	Q	Q	W	0	W	0	W	0
325212	Synthetic Rubber	6	W	0	0	0	0	W	0
325220	Artificial and Synthetic Fibers and Filaments	6	W	0	W	0	W	0	0
325311	Nitrogenous Fertilizers	W	0	0	W	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	84	W	W	W	W	W	10	W
325412	Pharmaceutical Preparation	24	10	W	0	W	W	6	W
325992	Photographic Film, Paper, Plate, and Chemicals	Q	W	W	0	0	0	W	0
326	Plastics and Rubber Products	260	0	W	0	W	0	W	0
327	Nonmetallic Mineral Products	455	Q	W	Q	Q	W	W	0
327120	Clay Building Material and Refractories	5	W	0	W	W	W	0	0
327211	Flat Glass	W	W	0	0	0	0	W	0
327212	Other Pressed and Blown Glass and Glassware	15	7	0	W	0	0	W	0
327213	Glass Containers	W	W	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	Q	W	0	W	W	0	0	0
327310	Cements	0	0	0	0	0	0	0	0
327410	Lime	W	W	0	0	0	0	0	0
327420	Gypsum	W	W	0	0	0	0	W	0
327993	Mineral Wool	W	W	0	0	0	0	0	0
331	Primary Metals	96	58	W	4	W	0	16	W
331110	Iron and Steel Mills and Ferroalloys	23	W	0	W	0	0	0	W
3312	Steel Products from Purchased Steel	W	W	0	0	0	0	W	0
3313	Alumina and Aluminum	22	14	W	0	0	0	W	0
331314	Secondary Smelting and Alloying of Aluminum	W	0	W	0	0	0	W	0
331315	Aluminum Sheet, Plate and Foils	W	W	0	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	13	W	0	0	0	0	W	0
3314	Nonferrous Metals, except Aluminum	W	W	W	0	0	0	4	0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	W	0	0	0	0	0	W	0
3315	Foundries	27	19	W	W	W	0	W	0
331511	Iron Foundries	W	W	0	0	0	0	W	0
331523	Nonferrous Metal Die-Casting Foundries	W	0	W	0	W	0	0	0
331524	Aluminum Foundries, except Die-Casting	20	W	0	W	0	0	0	0
332	Fabricated Metal Products	Q	W	0	W	0	W	W	0
333	Machinery	335	0	W	W	0	W	Q	0
334	Computer and Electronic Products	313	W	Q	W	W	0	Q	0
334413	Semiconductors and Related Devices	15	9	0	W	W	0	W	0
335	Electrical Equip., Appliances, and Components	Q	W	0	W	0	0	Q	0
336	Transportation Equipment	590	Q	0	Q	W	Q	Q	W
336111	Automobiles	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	43	Q	0	W	W	W	W	W
336411	Aircraft	7	W	0	0	0	W	W	W
337	Furniture and Related Products	Q	0	W	W	0	0	W	0
339	Miscellaneous	Q	W	W	W	0	0	22	0
	Total	4,304	1,459	567	701	350	Q	859	40

(a) The Bureau of the Census classifies establishments using the 2012 North American Industry Classification System (NAICS).
 (b) This count includes only those establishments that reported this activity in 2014.
 (c) These levels of price difference were guestimates at which establishments perceived that they would switch. These levels were not actual values at which switching occurred. The percentage of price difference is computed as the quantity of (current fuel price minus alternative fuel price) divided by the current fuel price, expressed as a percent.

* 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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

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 10.14 Relative Standard Errors for Table 10.14;

Unit: Percents.

		Levels of Price Difference that Would Cause a Switch from Electricity(c)						Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent		
Total United States									
311	Food	39.2	51.2	22.6	78.8	24.6	26.4	18.9	54.9
3112	Grain and Oilseed Milling	45.3	4.2	10.6	86.4	X	37.2	19.0	X
311221	Wet Corn Milling	0.0	0.0	0.0	X	X	X	0.0	X
31131	Sugar Manufacturing	0.1	0.1	X	X	X	0.1	X	X
3114	Fruit and Vegetable Preserving and Specialty Food	22.1	21.9	9.2	41.2	9.2	X	58.8	X
3115	Dairy Product	19.3	43.5	41.7	15.2	41.0	23.9	40.5	65.2
3116	Animal Slaughtering and Processing	70.0	82.8	X	7.1	X	X	45.5	7.1
312	Beverage and Tobacco Products	51.6	75.9	X	62.0	7.0	74.3	89.0	X
3121	Beverages	53.2	81.7	X	62.0	7.0	74.3	89.0	X
3122	Tobacco	0.1	0.1	X	X	X	X	X	X
313	Textile Mills	60.8	93.9	X	86.4	X	X	70.7	X
314	Textile Product Mills	48.8	48.8	X	X	X	X	X	X
315	Apparel	73.2	74.2	X	X	92.9	X	X	X
316	Leather and Allied Products	X	X	X	X	X	X	X	X
321	Wood Products	41.1	39.8	77.3	85.1	25.1	60.5	41.5	X
321113	Sawmills	28.2	46.1	X	5.5	34.9	60.5	49.7	X
3212	Veneer, Plywood, and Engineered Woods	53.8	77.5	X	73.3	X	X	X	X
321219	Reconstituted Wood Products	X	X	X	X	X	X	X	X
3219	Other Wood Products	72.7	7.6	77.3	90.0	X	X	72.1	X
322	Paper	34.9	0.1	0.1	19.7	96.4	0.0	0.1	0.1
322110	Pulp Mills	0.0	X	X	X	X	0.0	X	X
322121	Paper Mills, except Newsprint	0.1	0.1	0.1	0.1	X	X	0.1	0.1
322122	Newsprint Mills	X	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	X	X	0.0	0.0
323	Printing and Related Support	63.5	93.5	85.6	99.1	X	X	52.1	X
324	Petroleum and Coal Products	8.5	13.7	17.9	8.3	20.6	36.2	12.2	23.9
324110	Petroleum Refineries	36.2	36.2	36.2	36.2	36.2	36.2	36.2	X
324121	Asphalt Paving Mixture and Block	8.7	14.4	17.5	4.2	29.0	X	13.7	23.9
324122	Asphalt Shingle and Coating Materials	4.0	4.0	X	X	X	X	4.0	X
324199	Other Petroleum and Coal Products	X	X	X	X	X	X	X	X
325	Chemicals	31.8	42.2	14.5	26.1	34.5	9.6	23.2	13.9
325110	Petrochemicals	26.6	X	26.6	26.6	X	X	X	X
325120	Industrial Gases	X	X	X	X	X	X	X	X
325180	Other Basic Inorganic Chemicals	47.8	51.1	X	12.7	X	X	X	X
325193	Ethyl Alcohol	22.9	7.3	48.5	X	X	X	30.2	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	X	X	X	X	X	X	X	X
325199	Other Basic Organic Chemicals	35.7	13.6	X	75.9	X	X	65.6	X
325211	Plastics Materials and Resins	60.0	72.9	8.1	X	8.1	X	8.1	X
325212	Synthetic Rubber	0.0	0.0	X	X	X	X	0.0	X
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	X	0.0	X	0.0	X	X
325311	Nitrogenous Fertilizers	22.9	X	X	22.9	X	X	X	X
325312	Phosphatic Fertilizers	X	X	X	X	X	X	X	X
3254	Pharmaceuticals and Medicines	37.6	50.3	13.9	16.7	45.3	12.5	11.1	13.9
325412	Pharmaceutical Preparation	15.5	13.9	13.9	X	45.3	17.6	14.5	13.9
325992	Photographic Film, Paper, Plate, and Chemicals	63.3	25.5	25.5	X	X	X	80.5	X
326	Plastics and Rubber Products	48.6	X	95.1	X	99.2	X	60.2	X
327	Nonmetallic Mineral Products	38.5	77.6	97.9	58.0	96.5	8.3	72.2	X
327120	Clay Building Material and Refractories	8.3	8.3	X	8.3	8.3	8.3	X	X
327211	Flat Glass	0.0	0.0	X	X	X	X	0.0	X
327212	Other Pressed and Blown Glass and Glassware	44.2	21.2	X	94.5	X	X	21.2	X
327213	Glass Containers	0.0	0.0	X	X	X	X	X	X
327215	Glass Products from Purchased Glass	62.9	10.6	X	68.0	39.3	X	X	X
327310	Cements	X	X	X	X	X	X	X	X
327410	Lime	0.0	0.0	X	X	X	X	X	X
327420	Gypsum	17.3	17.3	X	X	X	X	17.3	X
327993	Mineral Wool	50.9	50.9	X	X	X	X	X	X
331	Primary Metals	16.4	22.7	66.3	3.7	9.6	X	14.2	3.3
331110	Iron and Steel Mills and Ferroalloys	45.6	63.6	X	3.3	X	X	X	3.3
3312	Steel Products from Purchased Steel	54.6	77.7	X	X	X	X	12.1	X
3313	Alumina and Aluminum	14.6	20.6	0.1	X	X	X	22.7	X
331314	Secondary Smelting and Alloying of Aluminum	0.1	X	0.1	X	X	X	0.1	X
331315	Aluminum Sheet, Plate and Foils	21.4	21.4	X	X	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	25.0	30.9	X	X	X	X	37.7	X
3314	Nonferrous Metals, except Aluminum	51.8	79.2	91.9	X	X	X	14.0	X
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	37.4	X	X	X	X	X	37.4	X
3315	Foundries	20.8	28.2	9.6	7.9	9.6	X	42.7	X
331511	Iron Foundries	18.5	18.5	X	X	X	X	18.5	X
331523	Nonferrous Metal Die-Casting Foundries	9.6	X	9.6	X	9.6	X	X	X
331524	Aluminum Foundries, except Die-Casting	27.5	30.0	X	7.9	X	X	X	X
332	Fabricated Metal Products	52.8	70.3	X	78.1	X	99.6	97.6	X
333	Machinery	43.2	X	83.8	99.1	X	99.1	73.1	X
334	Computer and Electronic Products	42.4	74.0	66.4	20.1	31.4	X	74.3	X
334413	Semiconductors and Related Devices	20.7	21.5	X	20.1	20.1	X	20.1	X
335	Electrical Equip., Appliances, and Components	63.9	93.2	X	87.7	X	X	70.7	X
336	Transportation Equipment	35.0	68.7	X	66.8	98.4	95.1	95.3	77.2
336111	Automobiles	X	X	X	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	X	X	X	X	X	X	X	X
3364	Aerospace Product and Parts	38.3	61.0	X	75.1	11.9	13.9	25.8	77.2
336411	Aircraft	32.6	45.0	X	X	X	25.8	25.8	25.8
337	Furniture and Related Products	83.1	X	96.4	82.9	X	X	91.0	X
339	Miscellaneous	51.7	88.3	99.2	97.6	X	X	44.8	X
	Total	12.4	22.7	33.5	30.4	45.1	58.3	22.4	22.3

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

(b) This count includes only those establishments that reported this activity in 2014.

(c) These levels of price difference were guesstimates at which establishments perceived that they would switch. These levels were not actual values at which switching occurred. The percentage of price difference is computed as the quantity of (current fuel price minus alternative fuel price) divided by the current fuel price, expressed as a percent.

* 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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

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