

Table 10.9 Number of Establishments with Capability to Switch Distillate 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	Distillate Fuel Oil(b)				Alternative Energy Sources(c)				Coal Coke and Breeze	Other(f)
		Total Establishments Consuming Distillate Fuel Oil(c)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Residual Fuel Oil	Coal	LPG		
Total United States											
311	Food	2,416	221	2,115	82	160	Q	0	Q	0	30
3112	Grain and Oilseed Milling	204	14	182	8	10	Q	0	8	0	W
311221	Wet Corn Milling	28	W	27	W	0	0	0	W	0	0
31131	Sugar Manufacturing	36	0	36	0	0	0	0	0	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	207	9	199	W	5	0	0	W	0	3
3115	Dairy Products	217	65	178	Q	56	Q	0	Q	0	10
3116	Animal Slaughtering and Processing	514	96	368	Q	63	Q	0	Q	0	Q
312	Beverage and Tobacco Products	335	19	283	8	16	W	W	0	0	0
3121	Beverages	309	14	260	W	11	W	W	0	0	0
3122	Tobacco	26	6	23	W	5	0	0	0	0	0
313	Textile Mills	161	43	97	W	Q	W	0	W	0	W
314	Textile Product Mills	Q	W	W	0	0	0	W	0	0	0
315	Apparel	Q	0	W	0	0	0	0	0	0	0
316	Leather and Allied Products	17	W	16	0	0	W	0	0	0	0
321	Wood Products	2,907	93	2,621	24	Q	Q	0	47	0	11
321113	Sawmills	893	30	793	14	W	W	0	W	0	5
3212	Veneer, Plywood, and Engineered Woods	518	28	486	W	Q	W	0	Q	0	W
321219	Reconstituted Wood Products	97	W	97	0	W	0	0	0	0	0
3219	Other Wood Products	1,357	Q	1,210	0	W	0	0	W	0	W
322	Paper	582	31	498	W	22	5	9	W	0	W
322110	Pulp Mills	28	W	28	0	W	0	0	0	0	0
322121	Paper Mills, except Newsprint	103	9	95	W	6	W	W	0	0	W
322122	Newsprint Mills	18	3	17	0	W	0	W	0	0	0
322130	Paperboard Mills	98	15	88	W	10	W	W	W	0	W
323	Printing and Related Support	250	0	250	0	0	0	0	0	0	0
324	Petroleum and Coal Products	995	152	902	65	116	21	0	24	0	W
324110	Petroleum Refineries	110	9	104	6	W	0	0	W	0	W
324121	Asphalt Paving Mixture and Block	733	131	656	56	101	21	0	W	0	W
324199	Other Petroleum and Coal Products	32	0	32	0	0	0	0	0	0	0
325	Chemicals	1,594	177	1,299	47	143	13	Q	18	W	13
325110	Petrochemicals	24	W	23	0	W	0	W	0	0	0
325120	Industrial Gases	18	0	18	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	21	W	20	0	W	0	0	0	0	W
325182	Carbon Black	11	W	10	W	W	0	0	W	0	W
325188	Other Basic Inorganic Chemicals	204	12	195	W	11	W	0	6	0	W
325192	Cyclic Crudes and Intermediates	14	W	14	0	W	0	0	0	0	0
325193	Ethyl Alcohol	82	16	65	W	9	W	W	4	0	W
325199	Other Basic Organic Chemicals	174	Q	146	W	Q	0	W	W	W	W
325211	Plastics Materials and Resins	169	6	148	0	6	0	0	0	0	0
325212	Synthetic Rubber	20	W	19	0	0	0	W	0	0	0
325222	Noncellulosic Organic Fibers	23	7	21	W	4	0	0	0	0	0
325311	Nitrogenous Fertilizers	40	4	35	W	W	0	0	0	0	W
325312	Phosphatic Fertilizers	24	W	21	W	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	213	44	183	12	37	W	0	W	0	0
325412	Pharmaceutical Preparation	129	29	108	W	23	W	0	W	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	19	4	15	0	W	0	0	W	0	W
326	Plastics and Rubber Products	557	Q	536	0	Q	0	0	0	0	0
327	Nonmetallic Mineral Products	5,691	453	5,039	Q	Q	6	W	351	0	Q
327121	Brick and Structural Clay Tile	88	11	70	0	10	W	0	W	0	W
327211	Flat Glass	34	4	34	W	W	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	39	6	36	3	3	0	0	W	0	0
327213	Glass Containers	39	W	36	W	W	0	0	W	0	0
327215	Glass Products from Purchased Glass	46	3	44	W	W	0	0	W	0	0
327310	Cements	150	13	128	0	4	W	W	W	0	7
327410	Lime	63	W	W	W	W	0	0	0	0	0
327420	Gypsum	64	W	61	0	W	0	0	W	0	0
327993	Mineral Wool	67	0	67	0	0	0	0	0	0	0
331	Primary Metals	918	58	835	21	23	8	0	39	0	7
331111	Iron and Steel Mills	168	10	157	W	W	0	0	6	0	W
331112	Electrometallurgical Ferroalloy Products	16	W	16	0	0	0	0	W	0	0
3312	Steel Products from Purchased Steel	120	W	111	W	0	W	0	W	0	W
3313	Alumina and Aluminum	125	15	108	W	6	W	0	6	0	W

Table 10.9 Number of Establishments with Capability to Switch Distillate 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	Distillate Fuel Oil(b)			Alternative Energy Sources(c)					Coal Coke and Breeze	Other(f)
		Total Establishments Consuming Distillate Fuel Oil(c)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Residual Fuel Oil	Coal	LPG		
331314	Secondary Smelting and Alloying of Aluminum	49	7	41	0	W	0	0	W	0	W
331315	Aluminum Sheet, Plate and Foils	31	3	27	0	W	W	0	W	0	0
331316	Aluminum Extruded Products	33	W	28	W	0	W	0	0	0	W
3314	Nonferrous Metals, except Aluminum	143	W	138	W	W	W	0	W	0	0
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Al	31	0	31	0	0	0	0	0	0	0
3315	Foundries	346	23	305	14	11	W	0	21	0	0
331511	Iron Foundries	179	12	152	9	W	0	0	10	0	0
331521	Aluminum Die-Casting Foundries	7	0	7	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	54	4	48	W	W	0	0	4	0	0
332	Fabricated Metal Products	3,644	Q	2,996	Q	W	0	0	0	0	W
333	Machinery	1,297	Q	1,262	W	0	0	0	0	0	0
334	Computer and Electronic Products	511	Q	481	W	W	0	0	0	0	W
334413	Semiconductors and Related Devices	65	5	60	0	W	0	0	0	0	W
335	Electrical Equip., Appliances, and Components	422	Q	409	W	W	0	0	W	0	0
336	Transportation Equipment	1,015	Q	835	W	12	W	0	Q	0	W
336111	Automobiles	8	W	8	W	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	10	W	10	W	0	0	0	0	0	0
3364	Aerospace Product and Parts	139	14	125	W	W	W	0	0	0	0
336411	Aircraft	64	6	59	0	W	W	0	0	0	0
337	Furniture and Related Products	512	Q	507	0	Q	W	0	W	0	0
339	Miscellaneous	473	Q	376	W	Q	0	0	W	0	Q
	Total	24,499	2,228	21,551	796	923	132	45	715	W	406

(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 distillate fuel oil during 2010. The quantities are expressed in thousands of barrels, and therefore represent the quantity of distillate fuel oil that could have been displaced by the given alternative type of energy.

(d) 'Total Consumed' represents those quantities (Total Inputs) of distillate 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 distillate 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.'

RSE Table 10.9 Relative Standard Errors for Table 10.9;**Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Distillate Fuel Oil(b)				Alternative Energy Sources(c)				Coal Coke and Breeze	Other(f)
		Total Establishments Consuming Distillate Fuel Oil(c)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Residual Fuel Oil	Coal	LPG		
Total United States											
311	Food	10.9	20.1	12.1	41.4	23.5	53.9	X	51.0	X	28.6
3112	Grain and Oilseed Milling	13.9	28.5	15.3	44.9	38.8	56.1	X	47.5	X	71.8
311221	Wet Corn Milling	0.0	0.0	0.0	0.0	X	X	X	0.0	X	X
31131	Sugar Manufacturing	0.0	X	0.0	X	X	X	X	X	X	X
3114	Fruit and Vegetable Preserving and Specialty Foods	20.2	15.8	21.0	8.6	25.1	X	X	8.6	X	8.6
3115	Dairy Products	17.6	36.4	21.6	72.6	41.6	86.3	X	75.9	X	47.5
3116	Animal Slaughtering and Processing	11.5	34.8	12.9	73.2	39.5	55.2	X	58.6	X	61.9
312	Beverage and Tobacco Products	19.9	20.3	21.8	46.6	24.6	7.1	7.1	X	X	X
3121	Beverages	21.6	28.9	23.7	65.8	34.7	7.1	7.1	X	X	X
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
313	Textile Mills	22.9	43.0	25.5	82.2	54.6	9.0	X	57.3	X	87.9
314	Textile Product Mills	88.9	93.2	93.7	X	X	X	93.2	X	X	X
315	Apparel	74.9	X	74.9	X	X	X	X	X	X	X
316	Leather and Allied Products	27.3	17.6	28.9	X	X	17.6	X	X	X	X
321	Wood Products	7.2	30.0	7.8	40.2	59.4	68.7	X	36.0	X	12.9
321113	Sawmills	6.7	37.4	7.8	21.0	6.4	20.8	X	73.0	X	11.1
3212	Veneer, Plywood, and Engineered Woods	12.6	43.3	13.3	89.8	62.0	89.8	X	50.5	X	9.1
321219	Reconstituted Wood Products	18.4	13.5	18.4	X	13.5	X	X	X	X	X
3219	Other Wood Products	13.9	75.9	15.1	X	91.9	X	X	49.5	X	27.5
322	Paper	20.8	1.6	21.6	12.0	0.4	0.0	5.2	0.0	X	0.0
322110	Pulp Mills	0.0	0.0	0.0	X	0.0	X	X	X	X	X
322121	Paper Mills, except Newsprint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	X	0.0
322122	Newsprint Mills	0.0	0.0	0.0	X	0.0	X	0.0	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0
323	Printing and Related Support	42.1	X	42.1	X	X	X	X	X	X	X
324	Petroleum and Coal Products	4.8	11.2	5.2	12.3	13.1	27.8	X	21.6	X	66.0
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	0.0
324121	Asphalt Paving Mixture and Block	5.9	12.6	6.5	13.5	14.7	27.8	X	23.0	X	82.4
324199	Other Petroleum and Coal Products	0.0	X	0.0	X	X	X	X	X	X	X
325	Chemicals	9.5	16.3	8.9	44.5	19.5	18.1	86.0	21.5	94.7	21.3
325110	Petrochemicals	0.0	0.0	0.0	X	0.0	0.0	X	X	X	X
325120	Industrial Gases	22.3	X	22.3	X	X	X	X	X	X	X
325181	Alkalies and Chlorine	0.0	0.0	0.0	X	0.0	X	X	X	X	0.0
325182	Carbon Black	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	0.0
325188	Other Basic Inorganic Chemicals	16.6	30.1	17.3	11.6	32.9	11.6	X	48.0	X	79.3
325192	Cyclic Crudes and Intermediates	0.0	0.0	0.0	X	0.0	X	X	X	X	X
325193	Ethyl Alcohol	7.4	23.2	7.6	84.0	9.3	4.3	26.6	16.4	X	23.8
325199	Other Basic Organic Chemicals	18.6	68.2	20.0	90.8	83.1	X	94.7	83.8	94.7	28.9
325211	Plastics Materials and Resins	16.3	7.9	15.8	X	7.9	X	X	X	X	X
325212	Synthetic Rubber	16.7	12.3	17.0	X	X	X	12.3	X	X	X
325222	Noncellulosic Organic Fibers	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
325311	Nitrogenous Fertilizers	0.0	0.0	0.0	0.0	0.0	X	X	X	X	0.0
325312	Phosphatic Fertilizers	0.0	0.0	0.0	0.0	X	X	X	X	X	X
3254	Pharmaceuticals and Medicines	10.3	16.6	10.5	50.0	12.4	7.9	X	10.2	X	X
325412	Pharmaceutical Preparation	12.9	22.8	12.8	56.0	14.9	10.2	X	10.2	X	X
325992	Photographic Film, Paper, Plate, and Chemicals	15.6	14.1	16.6	X	14.1	X	X	14.1	X	14.1
326	Plastics and Rubber Products	25.9	71.4	26.7	X	71.4	X	X	X	X	X
327	Nonmetallic Mineral Products	7.2	34.7	8.0	84.0	57.8	8.5	13.2	40.5	X	69.1
327121	Brick and Structural Clay Tile	6.7	16.1	7.7	X	18.1	4.8	X	4.8	X	4.8
327211	Flat Glass	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	14.7	13.2	15.1	13.2	13.2	X	X	13.2	X	X
327213	Glass Containers	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	X
327215	Glass Products from Purchased Glass	9.7	8.9	9.8	8.9	8.9	X	X	8.9	X	X
327310	Cements	11.6	15.6	10.9	X	13.2	13.2	13.2	13.2	X	19.8
327410	Lime	0.0	0.0	0.0	0.0	0.0	X	X	X	X	X
327420	Gypsum	13.9	13.9	13.9	X	13.9	X	X	13.9	X	X
327993	Mineral Wool	25.3	X	25.3	X	X	X	X	X	X	X
331	Primary Metals	5.0	7.0	5.3	16.0	14.2	21.7	X	9.2	X	3.4
331111	Iron and Steel Mills	0.0	0.0	0.0	0.0	0.0	X	X	0.0	X	0.0
331112	Electrometallurgical Ferroalloy Products	0.0	0.0	0.0	X	X	X	X	0.0	X	X
3312	Steel Products from Purchased Steel	21.8	29.4	23.4	12.2	X	69.8	X	12.2	X	12.2
3313	Alumina and Aluminum	3.8	2.4	4.1	5.6	0.0	2.9	X	4.0	X	2.7
331314	Secondary Smelting and Alloying of Aluminum	0.0	0.0	0.0	X	0.0	X	X	0.0	X	0.0
331315	Aluminum Sheet, Plate and Foils	0.0	0.0	0.0	X	0.0	0.0	X	0.0	X	X

RSE Table 10.9 Relative Standard Errors for Table 10.9;**Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Distillate Fuel Oil(b)				Alternative Energy Sources(c)					Coal Coke and Breeze	Other(f)
		Total Establishments Consuming Distillate Fuel Oil(c)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Residual Fuel Oil	Coal	LPG			
331316	Aluminum Extruded Products	6.9	5.6	7.3	5.6	X	5.6	X	X	X	X	5.6
3314	Nonferrous Metals, except Aluminum	15.4	11.1	15.7	11.1	11.1	11.1	X	11.1	X	X	X
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and A	0.0	X	0.0	X	X	X	X	X	X	X	X
3315	Foundries	8.6	15.5	9.4	24.0	29.8	10.0	X	17.2	X	X	X
331511	Iron Foundries	8.5	27.9	9.2	36.4	54.1	X	X	31.2	X	X	X
331521	Aluminum Die-Casting Foundries	11.7	X	11.7	X	X	X	X	X	X	X	X
331524	Aluminum Foundries, except Die-Casting	18.3	12.3	19.4	12.3	12.3	X	X	12.3	X	X	X
332	Fabricated Metal Products	17.9	51.0	19.9	62.7	96.4	X	X	X	X	X	99.4
333	Machinery	20.5	93.5	20.9	93.5	X	X	X	X	X	X	X
334	Computer and Electronic Products	27.8	77.5	29.1	90.4	14.9	X	X	X	X	X	42.6
334413	Semiconductors and Related Devices	20.2	21.2	20.8	X	14.9	X	X	X	X	X	42.6
335	Electrical Equip., Appliances, and Components	27.6	50.4	28.4	91.6	57.0	X	X	77.6	X	X	X
336	Transportation Equipment	19.8	57.5	21.4	5.6	22.1	16.8	X	83.8	X	X	98.4
336111	Automobiles	0.0	0.0	0.0	0.0	X	X	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0	0.0	X	X	X	X	X	X	X
3364	Aerospace Product and Parts	11.5	19.0	11.8	10.5	24.4	16.8	X	X	X	X	X
336411	Aircraft	16.8	16.8	16.8	X	16.8	16.8	X	X	X	X	X
337	Furniture and Related Products	30.9	63.6	31.2	X	63.6	94.6	X	94.6	X	X	X
339	Miscellaneous	33.6	62.2	37.1	98.8	79.8	X	X	98.8	X	X	98.8
	Total	4.1	15.4	4.4	30.0	15.3	22.1	47.1	25.2	94.7		44.8

(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 distillate fuel oil during 2010. The quantities are expressed in thousands of barrels, and therefore represent the quantity of distillate fuel oil that could have been displaced by the given alternative type of energy.

(d) 'Total Consumed' represents those quantities (Total Inputs) of distillate 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 distillate 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.'