

**Table 10.11 Number of Establishments with Capability to Switch Coal to Alternative Energy Sources, 2010;****Level: National Data;****Row: NAICS Codes;****Column: Energy Sources;****Unit: Establishment Counts.**

NAICS Code(a)	Selected Subsectors and Industry	Coal(b)			Alternative Energy Sources(c)					
		Total Establishments Consuming Coal(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(f)
<b>Total United States</b>										
311	Food	64	19	54	0	17	6	W	W	W
3112	Grain and Oilseed Milling	30	13	24	0	12	W	0	W	W
311221	Wet Corn Milling	15	9	13	0	8	0	0	W	W
31131	Sugar Manufacturing	11	W	8	0	W	W	W	0	0
3114	Fruit and Vegetable Preserving and Specialty Foods	W	W	W	0	W	0	0	0	0
3115	Dairy Products	W	W	W	0	W	W	0	0	0
3116	Animal Slaughtering and Processing	W	0	W	0	0	0	0	0	0
312	Beverage and Tobacco Products	12	7	10	0	5	W	W	W	0
3121	Beverages	7	7	5	0	5	W	W	W	0
3122	Tobacco	5	0	5	0	0	0	0	0	0
313	Textile Mills	23	11	Q	0	7	0	W	0	0
314	Textile Product Mills	W	0	W	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0	0
321	Wood Products	Q	W	Q	W	W	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	4	W	W	W	W	0	0	0	0
321219	Reconstituted Wood Products	W	W	W	0	W	0	0	0	0
3219	Other Wood Products	W	0	W	0	0	0	0	0	0
322	Paper	93	49	68	9	39	16	14	W	8
322110	Pulp Mills	W	W	0	0	W	0	0	0	0
322121	Paper Mills, except Newsprint	51	22	39	W	16	5	W	W	W
322122	Newsprint Mills	6	W	6	W	W	W	0	0	0
322130	Paperboard Mills	30	17	20	W	14	W	10	0	W
323	Printing and Related Support	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	9	W	9	0	W	0	0	0	0
324110	Petroleum Refineries	W	W	W	0	W	0	0	0	0
324121	Asphalt Paving Mixture and Block	W	0	W	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	4	W	4	0	W	0	0	0	0
325	Chemicals	71	35	46	W	29	6	W	0	0
325110	Petrochemicals	0	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0	0
325181	Alkalies and Chlorine	5	W	5	0	W	0	0	0	0
325182	Carbon Black	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	5	W	5	0	W	0	0	0	0
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	12	4	8	0	4	0	0	0	0
325199	Other Basic Organic Chemicals	6	4	4	0	W	0	0	0	0
325211	Plastics Materials and Resins	5	W	4	0	W	0	0	0	0
325212	Synthetic Rubber	W	W	W	0	W	0	0	0	0
325222	Noncellulosic Organic Fibers	4	4	W	W	W	W	W	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	W	0	W	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	6	4	W	0	4	0	0	0	0
325412	Pharmaceutical Preparation	6	4	W	0	4	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	W	0	0	0	0	0
326	Plastics and Rubber Products	W	0	W	0	0	0	0	0	0
327	Nonmetallic Mineral Products	254	144	147	W	50	W	9	W	23
327121	Brick and Structural Clay Tile	11	0	11	0	0	0	0	0	0
327211	Flat Glass	0	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	W	0	W	0	0	0	0	0	0
327310	Cements	97	52	67	0	38	13	9	W	W
327410	Lime	51	19	45	0	W	9	0	0	W
327420	Gypsum	0	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0	0
331	Primary Metals	22	4	18	0	4	0	0	0	0

**Table 10.11 Number of Establishments with Capability to Switch Coal to Alternative Energy Sources, 2010;**

**Level: National Data;**  
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NAICS Code(a)	Selected Subsectors and Industry	Total Establishments Consuming Coal(d)	Coal(b)		Electricity Receipts(e)	Alternative Energy Sources(c)				
			Switchable	Not Switchable		Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(f)
331111	Iron and Steel Mills	22	4	18	0	4	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	0	0	0	0	0	0	0	0	0
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Al	0	0	0	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0	0
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	W	0	W	0	0	0	0	0	0
333	Machinery	0	0	0	0	0	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0	0
336	Transportation Equipment	5	W	W	0	W	0	W	0	0
336111	Automobiles	W	W	W	0	W	0	0	0	0
336112	Light Trucks and Utility Vehicles	W	0	W	0	0	0	0	0	0
3364	Aerospace Product and Parts	W	W	0	0	0	0	W	0	0
336411	Aircraft	0	0	0	0	0	0	0	0	0
337	Furniture and Related Products	W	W	W	0	W	0	0	0	W
339	Miscellaneous	W	0	W	0	0	0	0	0	0
	Total	868	286	680	Q	160	Q	34	Q	41

(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 coal during 2010. The quantities are expressed in thousands of short tons, and therefore represent the quantity of coal that could have been displaced by the given alternative type of energy.

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

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 10.11 Relative Standard Errors for Table 10.11;  
 Unit: Percents.**

NAICS Code(a)	Selected Subsectors and Industry	Coal(b)			Alternative Energy Sources(c)					
		Total Establishment: Consuming Coal(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(f)
3312	Steel Products from Purchased Steel	X	X	X	X	X	X	X	X	X
3313	Alumina and Aluminum	X	X	X	X	X	X	X	X	X
331314	Secondary Smelting and Alloying of Aluminum	X	X	X	X	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	X	X	X	X	X	X	X	X	X
331316	Aluminum Extruded Products	X	X	X	X	X	X	X	X	X
3314	Nonferrous Metals, except Aluminum	X	X	X	X	X	X	X	X	X
331419	Primary Smelting and Refining of Nonferrous Metals, except Copper and Al	X	X	X	X	X	X	X	X	X
3315	Foundries	X	X	X	X	X	X	X	X	X
331511	Iron Foundries	X	X	X	X	X	X	X	X	X
331521	Aluminum Die-Casting Foundries	X	X	X	X	X	X	X	X	X
331524	Aluminum Foundries, except Die-Casting	X	X	X	X	X	X	X	X	X
332	Fabricated Metal Products	99.4	X	99.4	X	X	X	X	X	X
333	Machinery	X	X	X	X	X	X	X	X	X
334	Computer and Electronic Products	X	X	X	X	X	X	X	X	X
334413	Semiconductors and Related Devices	X	X	X	X	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	X	X	X	X	X	X	X	X	X
336	Transportation Equipment	18.7	7.6	25.6	X	0.0	X	10.5	X	X
336111	Automobiles	0.0	0.0	0.0	X	0.0	X	X	X	X
336112	Light Trucks and Utility Vehicles	0.0	X	0.0	X	X	X	X	X	X
3364	Aerospace Product and Parts	10.5	10.5	X	X	X	X	10.5	X	X
336411	Aircraft	X	X	X	X	X	X	X	X	X
337	Furniture and Related Products	66.3	66.3	88.0	X	61.6	X	X	X	88.0
339	Miscellaneous	98.8	X	98.8	X	X	X	X	X	X
	Total	22.3	24.7	26.5	82.0	6.8	57.1	9.1	90.2	14.9

(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 coal during 2010. The quantities are expressed in thousands of short tons, and therefore represent the quantity of coal that could have been displaced by the given alternative type of energy.  
 (d) 'Total Consumed' represents those quantities (Total Inputs) of coal 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 coal.  
 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.'