

Table 10.11 Number of Establishments with Capability to Switch Coal to Alternative Energy Sources, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Coal(b)		Alternative Energy Sources(c)							RSE Row Factors
		Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	LPG	Other(f)	
Total United States											
	RSE Column Factors:	1.5	1.2	1.5	0.7	1.1	0.8	1.1	1	0.5	
311	Food	91	50	92	0	26	Q	Q	W	W	10.7
311221	Wet Corn Milling	19	8	17	0	7	0	0	W	W	0.9
31131	Sugar	24	13	22	0	11	0	4	0	W	0.9
311421	Fruit and Vegetable Canning	0	0	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Products	17	8	12	0	7	W	5	0	0	5.3
3121	Beverages	9	5	5	0	W	W	W	0	0	8.5
3122	Tobacco	8	4	7	0	W	0	W	0	0	0.8
313	Textile Mills	48	36	17	0	36	14	21	5	0	12.6
314	Textile Product Mills	26	26	Q	0	5	24	W	0	W	27.4
315	Apparel	0	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0	0	0
321	Wood Products	W	W	W	0	W	0	0	W	0	0.8
321113	Sawmills	0	0	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	W	W	W	0	W	0	0	W	0	0.8
3219	Other Wood Products	0	0	0	0	0	0	0	0	0	0
322	Paper	103	56	70	W	43	16	19	W	9	2.8
322110	Pulp Mills	W	W	W	0	0	0	W	0	0	0.8
322121	Paper Mills, except Newsprint	55	31	39	W	25	8	W	W	W	3.1
322122	Newsprint Mills	4	W	W	0	W	0	0	0	0	0.8
322130	Paperboard Mills	39	20	27	W	14	5	9	0	W	1.5
323	Printing and Related Support	0	0	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	12	6	11	W	6	4	0	0	0	7.1
324110	Petroleum Refineries	9	W	W	0	W	4	0	0	0	12.2
324199	Other Petroleum and Coal Products	3	W	W	W	W	0	0	0	0	0.9
325	Chemicals	138	93	118	6	86	14	7	0	W	2.1
325110	Petrochemicals	W	0	W	0	0	0	0	0	0	0.7
325120	Industrial Gases	0	0	0	0	0	0	0	0	0	0.9
325181	Alkalies and Chlorine	7	6	3	W	6	0	0	0	0	0.9
325182	Carbon Black	0	0	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	5	W	W	0	W	0	0	0	0	0.8
325192	Cyclic Crudes and Intermediates	0	0	0	0	0	0	0	0	0	0.7
325193	Ethyl Alcohol	18	W	W	0	W	0	0	0	0	0.8
325199	Other Basic Organic Chemicals	47	45	42	0	45	4	0	0	0	3.5

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325211	Plastics Materials and Resins	16	11	15	0	11	0	0	0	W	3.3
325212	Synthetic Rubber	W	W	W	0	W	W	0	0	0	0.9
325222	Noncellulosic Organic Fibers	W	W	4	W	W	4	W	0	0	0.9
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	W	0	W	0	0	0	0	0	0	0.7
3254	Pharmaceuticals and Medicines	6	W	W	0	5	W	W	0	0	0.9
325412	Pharmaceutical Preparation	6	W	W	0	5	W	W	0	0	0.9
325992	Photographic Film, Paper, Plate, and Chemicals	W	W	W	0	W	W	W	0	0	0.9
326	Plastics and Rubber Products	7	W	W	0	W	0	49	0	0	2.8
327	Nonmetallic Mineral Products	181	77	122	W	68	17	14	6	19	2
3272	Glass and Glass Products	0	0	0	0	0	0	0	0	0	0
327211	Flat Glass	0	0	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0	0	0
327310	Cements	109	62	58	W	55	W	W	6	15	1.6
327410	Lime	45	13	38	0	11	W	W	0	4	1
327993	Mineral Wool	0	0	0	0	0	0	0	0	0	0
331	Primary Metals	39	4	36	0	W	W	0	0	W	2.4
331111	Iron and Steel Mills	21	W	W	0	W	0	0	0	W	0.9
331112	Electrometallurgical Ferroalloy Products	W	0	W	0	0	0	0	0	0	0.7
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	0	0	0	0	0	0	0	0	0	0
331312	Primary Aluminum	0	0	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	W	W	W	0	W	W	0	0	0	0.9
3315	Foundries	14	0	14	0	0	0	0	0	0	26.1
331511	Iron Foundries	13	0	13	0	0	0	0	0	0	28.7
331521	Aluminum Die-Casting Foundries	0	0	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	73	0	73	0	0	0	0	0	0	18.7
333	Machinery	W	W	W	0	W	0	0	0	0	1.2
334	Computer and Electronic Products	W	W	W	0	W	0	W	0	0	3.2
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	W	W	W	0	W	0	0	0	0	4.2
336	Transportation Equipment	20	12	11	W	10	W	0	W	W	1.7
336112	Light Trucks and Utility Vehicles	W	W	W	0	W	0	0	W	0	0.8
337	Furniture and Related Products	99	7	93	5	W	0	0	0	W	6.6
339	Miscellaneous	0	0	0	0	0	0	0	0	0	0
	Total	866	381	689	22	297	100	142	38	37	6.5

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(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 2002.

(c) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for coal during 2002. 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: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy End Use Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'