

Table 10.3 Number of Establishments with Capability to Switch Natural Gas to Alternative Energy Sources, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Natural Gas(b)			Alternative Energy Sources(c)							RSE Row Factors
		Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)	
Total United States												
RSE Column Factors:		0.6	1.1	0.7	1.2	1.1	1.1	1.2	1.1	0.9	1.1	
311	Food	12,018	2,210	10,674	532	1,170	413	75	862	3	25	9.9
311221	Wet Corn Milling	47	16	39	4	6	W	W	6	0	W	1
31131	Sugar	62	23	51	W	4	13	4	0	W	0	1
311421	Fruit and Vegetable Canning	416	113	337	4	67	49	W	32	W	W	5.5
312	Beverage and Tobacco Products	1,132	239	960	124	134	35	Q	123	W	0	14.3
3121	Beverages	1,075	206	925	120	113	25	Q	120	0	0	23.6
3122	Tobacco	57	33	35	4	20	9	4	4	W	0	1
313	Textile Mills	1,388	630	1,008	56	412	178	31	102	0	0	7.1
314	Textile Product Mills	2,245	294	1,963	235	131	106	103	172	79	137	22
315	Apparel	3,014	328	2,875	229	217	189	156	183	154	154	15.8
316	Leather and Allied Products	568	160	416	152	45	35	35	42	35	11	11.4
321	Wood Products	4,600	848	3,941	601	102	80	19	257	6	103	4.1
321113	Sawmills	476	128	351	94	21	W	4	16	0	19	6.8
3212	Veneer, Plywood, and Engineered Woods	774	138	651	81	5	4	0	66	0	28	9.9
3219	Other Wood Products	3,153	550	2,764	405	64	59	0	154	0	41	5.1
322	Paper	3,481	614	3,039	239	233	152	28	172	W	11	2.6
322110	Pulp Mills	26	8	20	0	4	6	0	W	0	W	1
322121	Paper Mills, except Newsprint	267	116	198	18	52	42	15	12	0	8	11.2
322122	Newsprint Mills	16	5	12	0	W	W	0	0	0	0	1.1
322130	Paperboard Mills	185	77	151	11	34	43	10	5	W	W	1.7
323	Printing and Related Support	13,304	1,638	11,755	1,358	293	160	281	573	173	43	11
324	Petroleum and Coal Products	1,409	294	1,233	40	151	79	4	138	W	50	12.2
324110	Petroleum Refineries	198	93	168	10	18	18	4	42	W	30	2.9
324199	Other Petroleum and Coal Products	30	4	30	0	W	0	0	0	0	W	1.1
325	Chemicals	6,757	1,380	5,753	624	518	236	66	512	0	165	4.5
325110	Petrochemicals	33	4	30	W	W	W	0	W	0	0	1
325120	Industrial Gases	174	Q	119	Q	W	0	0	Q	0	Q	9.5
325181	Alkalies and Chlorine	29	15	18	W	5	W	6	5	0	W	1
325182	Carbon Black	22	W	22	0	0	W	0	0	0	W	1.1
325188	Other Basic Inorganic Chemicals	315	38	301	8	22	9	W	20	0	3	13.6
325192	Cyclic Crudes and Intermediates	36	11	30	0	7	W	0	W	0	W	1
325193	Ethyl Alcohol	46	9	41	0	W	0	W	5	0	W	1
325199	Other Basic Organic Chemicals	480	144	435	21	58	55	38	20	0	18	2.9
325211	Plastics Materials and Resins	588	168	473	78	120	73	9	97	0	4	3.6

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325212	Synthetic Rubber	103	23	101	Q	21	13	W	13	0	0	0	1.6
325222	Noncellulosic Organic Fibers	50	27	31	5	15	9	0	5	0	0	0	1
325311	Nitrogenous Fertilizers	44	4	43	0	W	W	0	W	0	W	0	1
325312	Phosphatic Fertilizers	21	0	21	0	0	0	0	0	0	0	0	1.5
3254	Pharmaceuticals and Medicines	917	117	862	21	75	16	W	10	0	8	3.4	
325412	Pharmaceutical Preparation	507	64	481	4	47	13	W	5	0	W	3.9	
325992	Photographic Film, Paper, Plate, and Chemicals	162	25	147	Q	10	W	W	W	0	0	2.9	
326	Plastics and Rubber Products	8,022	1,618	6,816	1,091	471	105	91	497	14	64	3.4	
327	Nonmetallic Mineral Products	7,328	1,304	6,360	702	442	250	104	563	46	31	16.3	
3272	Glass and Glass Products	979	242	860	178	57	29	Q	86	0	W	13.1	
327211	Flat Glass	38	11	32	W	7	0	0	W	0	W	1	
327213	Glass Containers	61	20	50	4	7	W	0	15	0	0	1	
327310	Cements	136	44	104	Q	11	9	16	6	5	4	2.3	
327410	Lime	44	16	37	W	5	W	8	4	W	W	1	
327993	Mineral Wool	183	53	140	45	42	Q	Q	48	Q	Q	29.3	
331	Primary Metals	3,599	548	3,237	183	112	73	11	315	4	20	3.2	
331111	Iron and Steel Mills	448	51	W	11	10	4	W	22	W	W	3.6	
331112	Electrometallurgical Ferroalloy Products	14	W	W	0	W	W	0	W	0	0	1.1	
3312	Steel Products from Purchased Steel	504	82	447	33	7	W	0	42	0	5	4	
3313	Alumina and Aluminum	423	107	340	29	39	33	0	58	0	5	5.2	
331312	Primary Aluminum	41	20	25	0	W	W	0	16	0	W	2.3	
3314	Nonferrous Metals, except Aluminum	629	82	606	48	21	13	0	24	0	0	3.7	
3315	Foundries	1,582	224	1,413	61	31	18	8	167	W	7	3.4	
331511	Iron Foundries	396	74	337	14	13	4	W	60	0	4	4	
331521	Aluminum Die-Casting Foundries	215	25	201	8	7	W	0	21	0	0	1.7	
331524	Aluminum Foundries, except Die-Casting	304	39	279	17	W	W	0	25	0	W	2.5	
332	Fabricated Metal Products	26,976	4,562	23,007	3,758	1,077	910	321	2,674	160	473	7.3	
333	Machinery	14,123	2,178	12,388	1,689	505	751	258	1,072	168	139	6	
334	Computer and Electronic Products	6,629	753	6,050	639	182	127	158	252	98	104	4.3	
334413	Semiconductors and Related Devices	434	50	413	8	35	7	W	10	W	5	2.2	
335	Electrical Equip., Appliances, and Components	3,349	477	3,026	190	86	68	Q	272	W	13	12.6	
336	Transportation Equipment	5,993	854	5,367	493	123	168	79	594	66	71	4.3	
336112	Light Trucks and Utility Vehicles	41	9	36	0	0	W	W	6	0	W	1	
337	Furniture and Related Products	6,144	695	5,479	634	275	131	36	353	36	W	10.8	
339	Miscellaneous	11,171	1,276	9,965	1,172	97	23	117	289	110	W	3.3	
	Total	143,250	22,900	125,312	14,742	6,777	4,267	2,064	10,015	1,160	1,732	3.1	

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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 natural gas during 2002. The quantities are expressed in billions of cubic feet, and therefore represent the quantity of natural gas that could have been displaced by the given alternative type of energy.

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

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 Consumption Division, Form EIA-846, '2002 Manufacturing Energy Consumption Survey.'