

Table 10.9 Number of Establishments with Capability to Switch Distillate Fuel Oil to Alternative Energy Sources, 2002;
Level: National Data;
Row: NAICS Codes;
Column: Energy Sources;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Distillate Fuel Oil(b)			Alternative Energy Sources(c)							RSE Row Factors
		Total Consumed(d)	Switchable	Not Switchable	Electricity Receipts(e)	Natural Gas	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(f)	
Total United States												
	RSE Column Factors:	1	1.3	1	0.9	1.2	1	0.8	1.3	0.8	0.9	
311	Food	2,418	789	1,899	129	447	176	W	280	0	40	12.4
311221	Wet Corn Milling	20	7	15	W	4	0	W	W	0	W	1
31131	Sugar	40	W	W	W	W	0	0	0	0	0	0.9
311421	Fruit and Vegetable Canning	123	6	117	0	5	0	0	0	0	W	6.9
312	Beverage and Tobacco Products	251	30	227	W	26	W	4	5	0	W	7.1
3121	Beverages	221	20	205	W	19	W	W	Q	0	0	9.2
3122	Tobacco	30	10	21	W	7	W	W	W	0	W	1
313	Textile Mills	360	186	175	0	186	45	W	21	0	0	5.4
314	Textile Product Mills	82	W	W	0	13	W	5	W	0	Q	12.5
315	Apparel	311	45	277	0	W	0	0	37	0	0	19
316	Leather and Allied Products	31	W	W	0	W	0	0	W	0	0	3.3
321	Wood Products	2,831	280	2,617	74	39	39	W	145	W	102	3.3
321113	Sawmills	1,097	79	1,065	43	5	W	0	31	0	19	7.3
3212	Veneer, Plywood, and Engineered Woods	419	10	413	W	4	W	0	6	0	4	2.6
3219	Other Wood Products	1,137	174	974	27	22	28	0	97	0	78	4.4
322	Paper	541	151	414	20	120	12	9	16	W	8	3.1
322110	Pulp Mills	21	4	18	0	W	0	0	0	0	W	0.9
322121	Paper Mills, except Newsprint	156	37	132	W	27	7	W	W	0	5	4.8
322122	Newsprint Mills	14	W	W	0	W	0	0	0	0	0	0.9
322130	Paperboard Mills	91	14	84	5	8	W	W	W	W	W	1.2
323	Printing and Related Support	192	22	180	5	11	0	0	5	0	9	9.5
324	Petroleum and Coal Products	709	133	615	11	118	50	4	47	0	W	11.9
324110	Petroleum Refineries	91	15	86	W	11	0	4	W	0	W	2.1
324199	Other Petroleum and Coal Products	26	W	W	W	0	0	0	0	0	0	0.9
325	Chemicals	1,742	239	1,557	37	181	60	5	16	0	4	2
325110	Petrochemicals	12	W	W	W	W	0	0	0	0	0	0.9
325120	Industrial Gases	5	W	W	W	W	0	0	W	0	0	0.9
325181	Alkalies and Chlorine	10	W	W	0	W	0	0	W	0	0	0.9
325182	Carbon Black	11	0	11	0	0	0	0	0	0	0	1
325188	Other Basic Inorganic Chemicals	102	8	98	0	6	W	0	5	0	0	4.8
325192	Cyclic Crudes and Intermediates	17	W	W	0	W	0	0	0	0	W	0.9
325193	Ethyl Alcohol	10	W	W	0	W	0	W	0	0	W	1
325199	Other Basic Organic Chemicals	261	51	219	4	24	25	0	W	0	W	1.8
325211	Plastics Materials and Resins	166	11	157	W	11	0	0	W	0	0	2.3
325212	Synthetic Rubber	30	22	28	0	22	13	W	0	0	0	1

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325222	Noncellulosic Organic Fibers	23	10	15	0	10	0	W	0	0	0	1
325311	Nitrogenous Fertilizers	23	W	W	0	W	W	0	W	0	0	0.9
325312	Phosphatic Fertilizers	21	W	W	W	W	0	0	0	0	0	0.9
3254	Pharmaceuticals and Medicines	324	42	287	17	30	0	0	4	0	0	3.8
325412	Pharmaceutical Preparation	128	22	111	W	22	0	0	W	0	0	3.8
325992	Photographic Film, Paper, Plate, and Chemicals	51	12	42	0	11	0	W	0	0	0	1.3
326	Plastics and Rubber Products	705	119	613	26	81	16	0	4	0	23	5.7
327	Nonmetallic Mineral Products	3,999	265	3,767	W	179	80	9	157	0	83	12.9
3272	Glass and Glass Products	155	12	146	W	10	0	0	6	0	0	4.4
327211	Flat Glass	22	W	W	0	W	0	0	0	0	0	0.9
327213	Glass Containers	44	0	44	0	0	0	0	0	0	0	1
327310	Cements	106	15	93	0	4	W	9	W	0	W	1
327410	Lime	48	4	46	0	0	W	0	W	0	W	0.9
327993	Mineral Wool	37	4	33	Q	Q	0	0	Q	0	W	10
331	Primary Metals	986	164	865	18	132	77	0	125	0	12	4.3
331111	Iron and Steel Mills	274	97	198	W	93	W	0	91	0	0	4
331112	Electrometallurgical Ferroalloy Products	10	0	10	0	0	0	0	0	0	0	1
3312	Steel Products from Purchased Steel	138	7	132	0	6	0	0	0	0	W	4.1
3313	Alumina and Aluminum	114	9	107	0	W	0	0	8	0	W	4.1
331312	Primary Aluminum	26	0	26	0	0	0	0	0	0	0	1
3314	Nonferrous Metals, except Aluminum	110	15	104	W	13	W	0	W	0	W	4.2
3315	Foundries	341	35	315	12	19	0	0	25	0	6	7.9
331511	Iron Foundries	194	20	180	5	11	0	0	13	0	5	10.9
331521	Aluminum Die-Casting Foundries	11	0	11	0	0	0	0	0	0	0	6.8
331524	Aluminum Foundries, except Die-Casting	37	6	31	W	6	0	0	6	0	0	5.7
332	Fabricated Metal Products	2,955	394	2,571	108	182	69	3	397	3	135	14.8
333	Machinery	1,097	89	1,010	46	87	0	0	71	0	0	5.2
334	Computer and Electronic Products	657	106	557	87	99	W	69	75	0	0	5.2
334413	Semiconductors and Related Devices	93	12	87	6	9	W	0	W	0	0	1.4
335	Electrical Equip., Appliances, and Components	321	56	268	5	53	5	0	8	0	0	5.5
336	Transportation Equipment	1,119	127	1,013	41	65	5	6	59	0	5	3.4
336112	Light Trucks and Utility Vehicles	21	0	21	0	0	0	0	0	0	0	1
337	Furniture and Related Products	649	104	548	83	8	6	0	12	0	0	8.9
339	Miscellaneous	295	156	146	118	28	0	0	108	0	9	7.9
	Total	22,249	3,492	19,415	812	2,077	644	117	1,592	5	454	5.3

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

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(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 distillate fuel oil during 2002. 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: 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.'