

Table 10.6 Capability to Switch Electricity to Alternative Energy Sources, 2002;
Level: NATIONAL Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Electricity Receipts			Alternative Energy Sources(b)							RSE Row Factors
		Total Receipts(c)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(d)	
325222	Noncellulosic Organic Fibers	4,377	W	3,748	W	0	W	W	0	0	0	1
325311	Nitrogenous Fertilizers	3,502	182	2,642	172	10	0	0	0	0	0	0.8
325312	Phosphatic Fertilizers	2,006	133	1,873	66	55	114	0	0	0	0	0.9
3254	Pharmaceuticals and Medicines	10,964	794	7,816	257	382	22	0	Q	0	166	5.5
325412	Pharmaceutical Preparation	8,498	657	5,679	221	282	0	0	Q	0	166	8
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	W	0	0	0	0	0	0	0	10.4
326	Plastics and Rubber Products	53,196	979	43,295	730	612	Q	Q	376	0	Q	12.2
327	Nonmetallic Mineral Products	41,636	928	34,621	115	764	*	56	46	*	*	8
3272	Glass and Glass Products	12,233	640	10,167	91	569	0	5	Q	0	0	5.6
327211	Flat Glass	1,842	W	933	1	W	0	0	1	0	0	0.8
327213	Glass Containers	3,932	86	3,750	29	W	0	0	0	0	0	0.8
327310	Cements	12,637	98	10,432	0	54	0	W	0	0	0	0.9
327410	Lime	1,353	0	1,222	0	0	0	0	0	0	0	1.2
327993	Mineral Wool	3,750	Q	3,451	*	*	*	Q	*	*	0	2.3
331	Primary Metals	146,578	1,572	121,879	954	487	Q	*	147	0	416	4.1
331111	Iron and Steel Mills	54,356	930	48,678	514	127	0	0	0	0	415	1.1
331112	Electrometallurgical Ferroalloy Products	3,555	2	2,608	0	2	0	0	0	0	0	2.9
3312	Steel Products from Purchased Steel	4,611	125	3,635	96	Q	Q	0	Q	0	0	14.8
3313	Alumina and Aluminum	58,191	Q	44,085	0	Q	0	0	0	0	0	1.2
331312	Primary Aluminum	50,327	0	37,037	0	0	0	0	0	0	0	1.2
3314	Nonferrous Metals, except Aluminum	9,968	248	8,966	176	117	0	0	45	0	0	8.7
3315	Foundries	15,896	261	13,908	167	153	15	*	46	0	1	5.4
331511	Iron Foundries	8,214	94	6,988	76	55	12	0	19	0	0	6.3
331521	Aluminum Die-Casting Foundries	1,897	52	1,692	33	32	0	0	13	0	0	3.4
331524	Aluminum Foundries, except Die-Casting	1,350	55	1,202	16	50	3	0	11	0	1	1.6
332	Fabricated Metal Products	47,118	1,010	38,817	574	490	Q	Q	430	Q	Q	22.7
333	Machinery	24,609	1,016	20,170	642	343	Q	Q	Q	0	Q	14.6
334	Computer and Electronic Products	38,427	1,331	33,002	Q	972	Q	*	Q	*	Q	8.4
334413	Semiconductors and Related Devices	13,025	315	11,494	52	276	6	*	6	*	*	1.7
335	Electrical Equip., Appliances, and Components	13,901	316	11,454	213	103	22	0	46	0	Q	9.5
336	Transportation Equipment	50,576	2,542	41,015	Q	837	Q	204	W	Q	139	14.6
336112	Light Trucks and Utility Vehicles	4,889	33	4,513	2	W	0	W	0	0	*	0.9
337	Furniture and Related Products	7,113	193	4,958	123	Q	W	2	Q	0	Q	10.3
339	Miscellaneous	10,371	336	7,699	142	227	W	Q	W	Q	Q	11.6
	Total	855,160	23,219	668,468	12,835	10,395	1,980	1,267	3,059	94	2,059	8.6
Northeast Census Region												
RSE Column Factors:		0.9	1.4	0.9	1.6	1.7	0.6	0.8	1.7	0.5	0.9	

Table 10.6 Capability to Switch Electricity to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Electricity Receipts			Alternative Energy Sources(b)							RSE Row Factors
		Total Receipts(c)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(d)	
	Total	100,190	1,892	77,610	954	917	512	35	532	Q	335	13.5
Midwest Census Region												
	RSE Column Factors:	0.9	1.4	0.9	1.6	1.7	0.6	0.8	1.7	0.5	0.9	
	Total	252,896	8,895	202,694	4,878	4,018	Q	770	1,452	Q	462	11.3
South Census Region												
	RSE Column Factors:	0.9	1.4	0.9	1.6	1.7	0.6	0.8	1.7	0.5	0.9	
	Total	395,373	6,991	303,226	3,149	3,395	826	392	707	Q	1,126	6.9
West Census Region												
	RSE Column Factors:	0.9	1.4	0.9	1.6	1.7	0.6	0.8	1.7	0.5	0.9	
	Total	106,701	5,441	84,938	3,855	2,065	Q	70	368	Q	135	4.3
Economic Characteristic (e)												
	RSE Column Factors:	0.3	1.1	0.3	1.2	1.7	1.1	1.2	3.2	1.2	1.2	
Value of Shipments and Receipts (million dollars)												
	Under 20	127,974	2,315	98,179	1,510	1,269	Q	159	873	83	191	22.9
	20-49	122,191	2,542	97,252	1,167	1,553	Q	62	459	W	34	14.7
	50-99	117,492	2,240	97,870	1,002	1,455	Q	0	362	0	57	13.6
	100-249	167,370	5,983	126,881	2,190	3,977	209	97	Q	W	102	11.5
	250-499	139,091	5,151	109,491	4,046	1,108	639	287	313	0	489	5.7
	500 and Over	181,042	4,989	138,795	2,921	1,034	169	662	654	W	1,186	4.2
	Total	855,160	23,219	668,468	12,835	10,395	1,980	1,267	3,059	94	2,059	8.7
Employment Size												
	Under 50	75,710	1,102	54,009	689	643	144	148	249	81	77	23.9
	50-99	72,802	1,214	59,833	744	566	Q	54	Q	*	Q	24.7

Table 10.6 Capability to Switch Electricity to Alternative Energy Sources, 2002;
Level: National Data and Regional Totals;
Row: NAICS Codes, Value of Shipments and Employment Sizes;
Column: Energy Sources;
Unit: Million Kilowatthours.

NAICS Code(a)	Subsector and Industry	Electricity Receipts			Alternative Energy Sources(b)							RSE Row Factors
		Total Receipts(c)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(d)	
	100-249	182,530	4,187	144,456	1,758	2,873	Q	31	874	W	154	15.6
	250-499	186,702	7,063	148,692	4,910	2,525	413	20	373	W	157	10.1
	500-999	164,164	3,667	129,447	1,612	1,712	410	331	531	W	513	6.3
	1000 and Over	173,252	5,986	132,031	3,122	2,076	476	684	684	0	1,073	7.9
	Total	855,160	23,219	668,468	12,835	10,395	1,980	1,267	3,059	94	2,059	8.7

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

(b) 'Alternative Energy Sources' consist of those energy sources that could have been substituted for electricity receipts during 2002. The quantities are expressed in millions of kilowatthours, and therefore represent the quantity of electricity that could have been displaced by the given alternative type of energy.

(c) 'Total 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.

(d) 'Other' includes all other types of energy not already identified that respondents indicated could have been consumed in place of electricity.

(e) Value of Shipments and Receipts and Employment Size categories were supplied by the Bureau of the Census.

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,' and the Bureau of the Census, data files for the '2002 Economic Census, Manufacturing - Industry Series.'