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.

		Lit	Electricity Receipts Alternative Energy Cources(b)									
NAICS Code(a)	Subsector and Industry	Total Receipts(c)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(d)	RSE Row Factors
		Total United St	tates									
	RSE Column Factors:	0.9	1.4	0.9	1.6	1.7	0.6	0.8	1.7	0.5	0.9	
311	Food	68,230	2,270	49,890	239	2,125	17	9	72	0	Q	12.2
311221	Wet Corn Milling	7,098	77	6,062	77	0	0	0	0	0	0	0.9
31131	Sugar	733	21	602	*	11	9	9	0	0	*	1
311421	Fruit and Vegetable Canning	1,987	Q	1,764	Q	Q	0	0	25	0	0	9.9
312	Beverage and Tobacco Products	7,917	136	6,879	53	87	0	1	Q	0	0	4.6
3121	Beverages	6,523	135	5,509	53	87	0	0	Q	0	0	6.6
3122	Tobacco	1,394	1	1,370	0	0	0	1	0	0	0	1
313	Textile Mills	25,387	Q	22,354	2	Q	0	0	0	0	Q	4.4
314	Textile Product Mills	4,870	Q	3,986	Q	*	0	0	*	0	Q	2.5
315	Apparel	3,579	52	1,982	Q	Q	Q	Q	Q	Q	Q	25.6
316	Leather and Allied Products	717	Q	611	0	Q	0	0	0	0	Q	18.5
321	Wood Products	21,621	321	18,552	Q	151	Q	Q	16	Q	49	9
321113	Sawmills	6,333	107	5,264	41	50	Q	0	Q	0	29	10.8
3212	Veneer, Plywood, and Engineered Woods	9,696	43	8,907	Q	Q	*	0	*	0	W	2.9
3219	Other Wood Products	5,282	158	4,099	Q	70	4	Q	5	Q	0	15.7
322	Paper	71,890	5,997	52,715	4,659	1,506	667	328	0	0	731	1.6
322110	Pulp Mills	2,628	1	2,105	0	0	1	0	0	0	0	1.1
322121	Paper Mills, except Newsprint	25,258	1,388	19,385	881	W	265	283	0	0	310	2
322122	Newsprint Mills	10,827	2,050	6,733	2,050	0	0	0	0	0	0	0.9
322130	Paperboard Mills	19,626	2,482	13,077	1,697	1,233	W	W	0	0	421	1.3
323	Printing and Related Support	14,735	372	11,161	180	Q	Q	Q	125	Q	*	13.7
324	Petroleum and Coal Products	41,308	1,063	33,001	798	213	W	1	348	W	290	3.2
324110		38,625	999	30,821	788	165	W	0	342	W	277	3.5
324199	Other Petroleum and Coal Products	436	9	367	7	0	0	1	0	0	8	1
325	Chemicals	161,381	2,255	110,427	1,397	713	218	119	Q	0	192	5.3
325110	Petrochemicals	W	W	2,215	W	0	0	0	0	0	0	0.9
325120	Industrial Gases	24,600	0	17,108	0	0	0	0	0	0	0	11.6
325181	Alkalies and Chlorine	13,274	W	10,512	W	3	0	18	0	0	0	0.9
325182	Carbon Black	609	0	559	0	0	0	0	0	0	0	1.2
325188		26,179	44	9,857	13	W	0	0	0	0	0	
325192	,	3,443	*	2,899	0	*	0	0	0	0	0	
325193		1,309	18		17	2	0	0	0	0	0	
325199	Other Basic Organic Chemicals	25,136	336	,	263	63	0	0	*	0	8	
325211	Plastics Materials and Resins	22,388	Q	15,790	Q	19	0	0	17	0	W	
325212	Synthetic Rubber	1,916	0	1,604	0	0	0	0	0	0	0	20.8

Alternative Energy Sources(b)

Electricity Receipts

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.

		Ele	ctricity Receip	ots	Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Receipts(c)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(d)	RSE Row Factors
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	, , , , , , , , , , , , , , , , , , , ,	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		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		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 Cens	sus 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.

		Ele	ectricity Receip	ts	Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Receipts(c)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(d)	RSE Row Factors
	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 dellars)											
	Under 20 20-49	127,974 122,191	2,315 2,542	98,179 97,252	1,510 1,167	1,269 1,553	Q Q	159 62	873 459	83 W	191 34	22.9 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	
	250-499	139,091	5,151	109,491	4,046	1,108	639	287	313	0	489	5.7
	500 and Over Total	181,042 855,160	4,989 23,219	138,795 668,468	2,921 12,835	1,034 10,395	169 1,980	662 1,267	654 3,059	W 94	1,186 2,059	
	Employment Size											
	Under 50 50-99	75,710 72,802	1,102 1,214	54,009 59,833	689 744	643 566	144 Q	148 54	249 Q	81	77 Q	23.9 24.7
	JU-33	12,002	1,214	55,055	144	500	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.

		Ele	ectricity Receip	ts	Alternative Energy Sources(b)							
NAICS Code(a)	Subsector and Industry	Total Receipts(c)	Switchable	Not Switchable	Natural Gas	Distillate Fuel Oil	Residual Fuel Oil	Coal	LPG	Coal Coke and Breeze	Other(d)	RSE Row Factors
	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.'